biamp.

PRODUCT CATALOG
Fixed install sound solutions for
small and mid-sized projects

**Retail • Food Service • Hospitality • Sports & Leisure
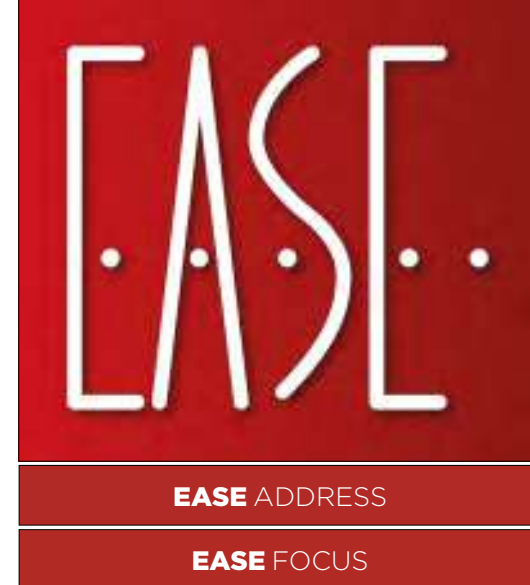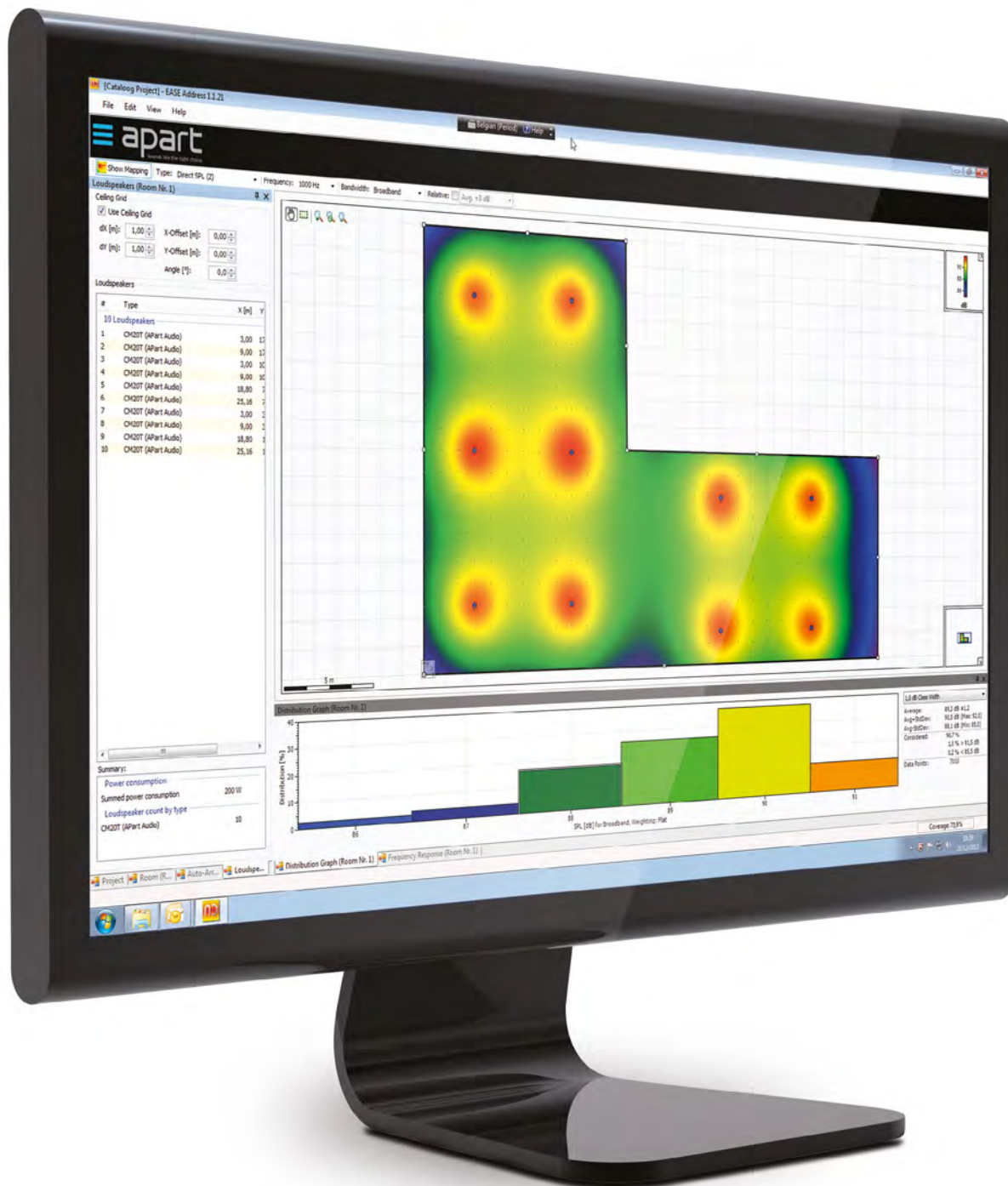Education • Houses of Worship • Corporate**

TABLE OF CONTENTS

EASE ADDRESS

EASE FOCUS

Simulate the perfect Biamp sound solution

Anyone who needs to quickly develop a design using Apart loudspeakers can benefit from our EASE GLL files. These can be used in the full version of EASE, EASE Focus and EASE Address. Allowing you to simulate the sound performance in advance to be sure it will work before the actual installation is being built.

EASE is a fully featured advanced software, available on a chargeable basis from AFMG and can be used for making detailed acoustical analysis in three dimensions, taking into account all possible properties and requirements of the venue.

EASE Focus allows for simple three-dimensional graphical analysis of a room, allowing loudspeakers to be placed in the virtual area with the acoustical results displayed on screen.

EASE Address can be used for a two dimensional plan view of a space which utilises ceiling mounted loudspeakers. Both EASE Focus and EASE Address are available to download free of charge.

Apart's GLL files are included in the extensive GLL-library that comes with Full EASE and are available on our website biamp.com/apart. These files can also be used with EASE Focus and EASE Address. The Apart loudspeakers have been measured by ifaa-akustik who also composed and authorised the Apart GLL files. Giving you the confidence of accomplishing thrustworthy acoustical results.

Ω_X LOUDSPEAKER IMPEDANCE

4	the loudspeaker's impedance is 4 ohms
6	the loudspeaker's impedance is 6 ohms
8	the loudspeaker's impedance is 8 ohms
16	the loudspeaker's impedance is 16 ohms
20	the loudspeaker's impedance is 20 ohms

VOLTAGE

70	loudspeaker equipped with a 70 volt transformer
100	loudspeaker equipped with a 100 volt transformer

SOUND POWER LEVEL

	indication of the loudspeaker's sound output level

IP XY INGRESS PROTECTION (IP) RATING

X	solid particle protection		Y	liquid ingress protection
0	no protection		0	No protection
1	protected against solid objects up to 50 mm		1	Protected against vertically falling drops of water
2	protected against solid objects up to 12 mm		2	protected against direct sprays of water up to 15° from the vertical
3	protected against solid objects over 2.5 mm		3	protected against sprays of water up to 60° from the vertical
4	protected against solid objects over 1 mm		4	protected against water sprayed from all directions - limited ingress permitted
5	protected against dust - limited ingress permitted		5	protected against low pressure jets of water limited ingress permitted
6	totally protected against dust		6	protected against strong jets of water limited ingress permitted
			7	protected against the affects of immersion between 15 cm and 1 m.
			8	protected against long periods of immersion under pressure

MISCELLANEOUS

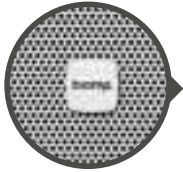|	this product can be painted in any RAL color
	this is an active loudspeaker or subwoofer

CMR20T

CM608-BL

CM20DT

CMS608

CM3T

WHICH BUILT-IN LOUDSPEAKERS TO CHOOSE IN THIS APPLICATION?

BUILT-IN LOUDSPEAKERS

Biamp solutions used in following reference
Restaurant Biblioteka no.1 - Riga, Latvia

ROUND CM SERIES INSTALLATION FEATURES

CABLE CONNECTORS

Terminal block
Easy cable management with the pre-installed terminal block.

Push terminal
Extremely cost efficient due to faster installation time and no more need for junction boxes.

Euroblock connector
Connector with permanent pass through. Allows easy daisy chaining of multiple loudspeakers.

CM grille with removable logo
The elegant and stylish Biamp logo can be removed if required, without inflicting damage to the loudspeaker grille.
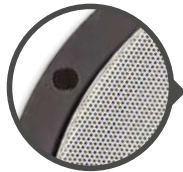
Thin edge magnetic removable grille
Very slim thin-edge grille for subtle design interior integration. Loudspeaker frame with neodymium grille fixing magnets for sturdy, stable and easy installation.

Back can
Controlled sound and voice performance for any kind of ceiling or wall structure. Optimised bass and mid range performance while maintaining sonic consistency.

Seismic safety tabs
Two integrated seismic safety tabs allow you to install the loudspeaker according to the local safety regulations.

model name	removable logo	thin edge magnetic grille	cable connector 70/100V (*100V only)	cable connector low impedance	back can	seismic safety tabs
Economy Series						
CM5EH	-	-	a*	a	-	-
CM6E	•	-	a*	-	-	-
CM8E	•	-	b*	-	-	-
Classic Series						
CM3T	•	-	a	a	-	-
CM4T	•	-	a	a	-	-
CM4	•	-	a	a	•	-
CM6T	•	-	b	b	-	-
CM6TSMF	-	-	a	a	•	-
CM20T	•	-	b	b	-	-
CM608	•	-	-	b	-	-
CMX20T	•	-	b	b	-	-
CM1008	•	-	-	b	-	-
Design Series						
CM20DT	•	•	b	b	-	-
CM608D	•	•	-	b	-	-
CMX20DT	•	•	b	b	-	-
CM1008D	•	•	-	b	-	-
CM6QFT	•	-	a	a	-	-
CM20DTS	•	•	c	c	•	•
CM30DTD	•	•	c	c	•	•
CM60DTD	•	•	c	c	•	•

ROUND CM ECONOMY SERIES

The Apart Economy Series offer great value for money and can be used for multiple purposes such as quality speech, discrete background music, safety messaging and paging. This competitive range consists out of 100V and low impedance models suitable for various applications. To meet the expectations of the installers, budget-friendly, all-round, built-in loudspeakers suitable for general use are needed in the range.

- **Ideal for public tenders**

- **100 volt only**

5.25" HUMIDITY PROOF BUDGET LOUDSPEAKER

CM5EH

IP54 Ω8 100

- Humidity proof, ideal for bathrooms, kitchens, ...

- 6 - 3 watts 100 volt transformer.

- 30 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Plastic grille.
  · 5.25" coated paper cone woofer.

- Dimensions:
  · 187 (Ø) x 45 (d) mm.
  · Cutout: 163 (Ø) mm.

6.5" DUAL CONE LOUDSPEAKER

CM6E

IP50 Ω4 100

- Suitable for general use, budget and design united.

- 6 - 3 - 1.5 watts 100 volt transformer.

- 30 watts @ 4 ohms.

- Materials:
  · ABS plastic frame.
  · Steel grille.
  · 6.5" paper dual cone woofer.

- Dimensions:
  · 205 (Ø) x 70 (d) mm.
  · Cutout:186 (Ø) mm.

- Optional on-wall / in-wall back box available.

ROUND CM
CLASSIC SERIES

8" TWO-WAY LOUDSPEAKER

CM8E

IP 54 | Ω 16 | ⚡ 100 | 📶 | 🖌️

- Economical high quality loudspeaker.

- High value for money.

- 6 - 3 - 1.5 watts 100 volt transformer.

- 100 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 8" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 244 (Ø) x 87 (d) mm.
  · Cutout: 223 (Ø) mm.

The CM Classic Series offer a wide range of 70 / 100 volt and low impedance built-in loudspeakers for various applications.

Beside an elegant design the CM Classic loudspeakers also deliver an excellent sound performance. Extremely fast and easy to install due to the implemented push terminals* and the transformer tapping sticker*.

Check out this series of round ceiling-mount loudspeakers and you will definitely find one suitable for your application.

not for CM3T, CM4T, CM4 and CM6TSMF

- **Ideal for background music and speech**

- **Best value for money**

3" DUAL CONE LOUDSPEAKER

CM3T | CM3T-BL

IP 50 | Ω 16 | ⚡ 70 | ⚡ 100 | 📶 | 🖌️

- Halogen spot size. Ideal for speech and background music.

- 6 - 3 - 1.5 - 0.75* watts 70 / 100 volt transformer. (* 0.75 watts @ 70 volt only)

- 20 watts @ 16 ohms.

- Materials:
  · Steel frame.
  · Aluminium grille with removable logo.
  · 3" coated paper dual cone woofer.

- Dimensions:
  · 105 (Ø) x 74 (d) mm.
  · Cutout: 85 (Ø) mm.

4" DUAL CONE LOUDSPEAKER

CM4T | CM4T-BL

IP50 | Ω16 | ⚡70 | 100 | 📶 | 🖌

- Small size. Ideal for speech and background music.

- 6 - 3 - 1.5 - 0.75* watts 70 / 100 volt transformer.
  (* 0.75 watts @ 70 volt only)

- 30 watts @ 16 ohms.

- Materials:
  · Steel frame.
  · Aluminium grille with removable logo.
  · 4" coated paper dual cone woofer.

- Dimensions:
  · 135 (Ø) x 74 (d) mm.
  · Cutout: 108 (Ø) mm.

4" DUAL CONE LOUDSPEAKER WITH BACK CAN

CM4 | CM4-BL

IP60 | Ω16 | 📶 | 🖌

- Back can gives constant sound quality, ideal for use in strip or perforated ceilings.

- High pass filter allows optional subwoofers (see "CMSUB8" on page 23 and "SUBLIME" on page 48).

- 30 watts @ 16 ohms.

- Materials:
  · Steel frame.
  · Aluminium grille with removable logo.
  · 4" coated paper dual cone woofer.

- Dimensions:
  · 135 (Ø) x 107 (d) mm.
  · Cutout:108 (Ø) mm.

6.5" TWO-WAY LOUDSPEAKER

CM6T | CM6T-BL

IP54 | Ω16 | ⚡70 | 100 | 📶 | 🖌

- The contractors reference with best price-quality ratio. Humidity proof, ideal for bathrooms, kitchens, ...

- 6 - 3 - 1.5 - 0.75* watts 70 / 100 volt transformer.
  (* 0.75 watts @ 70 volt only)

- 60 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 6.5" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 205 (Ø) x 75 (d) mm.
  · Cutout: 186 (Ø) mm.

- Optional on-wall / in-wall back box available.
  (see "CMBB" on page 154)

6.5" DUAL CONE LOUDSPEAKER WITH BACK CAN

CM6TSMF

[IP 60] [⚡100] [📶] [🖌]

- The back can guarantees ideal and constant sound. Ideal in strip or perforated ceilings.

- Air-tight to prevent sound dispersion to get into the false ceiling. No problems with the people on the floor above.

- 6 - 3 - 1.5 watts 100 volt transformer.

- Materials:
  · Metal frame.
  · Metal grille.
  · 6.5" coated dual paper cone woofer.

- Dimensions:
  · 205 (Ø) x 120 (d) mm.
  · Cutout: 182 (Ø) mm.

6.5" TWO-WAY LOUDSPEAKER

CM20T | CM20T-BL

[IP 54] [Ω 16] [⚡70] [⚡100] [📶] [🖌]

- Useful when a little more power is needed (e.g. high ceilings).

- Humidity proof, ideal for bathrooms, kitchens, ...

- 20 - 10 - 5 - 2.5* watts 70 / 100 volt transformer. (* 2.5 watts @ 70 volt only)

- 60 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 6.5" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 205 (Ø) x 80 (d) mm.
  · Cutout: 186 (Ø) mm.

- Optional on-wall / in-wall back box available. (see "CMBB" on page 154)

6.5" TWO-WAY LOUDSPEAKER

CM608 | CM608-BL

[IP 54] [Ω 8] [📶] [🖌]

- The BEST BUY and most versatile loudspeaker.

- Humidity proof, ideal for bathrooms, kitchens, ...

- 60 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 6.5" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 205 (Ø) x 75 (d) mm.
  · Cutout: 186 (Ø) mm.

- Optional on-wall / in-wall back box available. (see "CMBB" on page 154)

8″ TWO-WAY LOUDSPEAKER

CMX20T ⎪ CMX20T-BL

IP 54 · Ω 16 · 70 · 100 · 📶 · 🖌

- A warm and deep sound ideal for speech and music.

- Humidity proof, ideal for bathrooms, kitchens, ...

- 20 - 10 - 5 - 2.5* watts 70 / 100 volt transformer. (* 2.5 watts @ 70 volt only)

- 100 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 8″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 244 (Ø) x 87 (d) mm.
  · Cutout: 223 (Ø) mm.

8″ TWO-WAY LOUDSPEAKER

CM1008 ⎪ CM1008-BL

IP 54 · Ω 8 · 📶 · 🖌

- A powerful transparent and warm sound.

- Humidity proof, ideal for bathrooms, kitchens, ...

- 100 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 8″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 244 (Ø) x 90 (d) mm.
  · Cutout: 223 (Ø) mm.

ROUND CM DESIGN SERIES

Sharing the technical and acoustic specifications of the Classic Series, Apart introduced it's CM Design Series. The thin edge grille and integrated neodymium grille fixing magnets* will guarantee an easy, smooth and elegant integration in every environment.

The astonishing ease-of-installation and attention to detail of this range will not only amaze the architect and end-user, but will also impress audio installers worldwide.

The versatile round CM Design Series can be used in almost every market around the globe due to its 70 / 100 volt connectivity.

not on CM6QFT

- **Great esthetics**
- **Extremely easy to install**

6.5″ TWO-WAY DESIGN LOUDSPEAKER

CM20DT

- Stylish and very thin edge design loudspeaker with warm and transparent sound.

- 20 - 10 - 5 - 2.5* watts 70 / 100 volt transformer. (* 2.5 watts @ 70 volt only)

- 60 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Steel grille with removable logo.
  · 6.5″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 210 (Ø) x 80 (d) mm.
  · Cutout: 186 (Ø) mm.

- Optional on-wall / in-wall back box and square grille available. (see "CMBB" on page 154 and "SQGR" on page 19)

6.5″ TWO-WAY DESIGN LOUDSPEAKER

CM608D
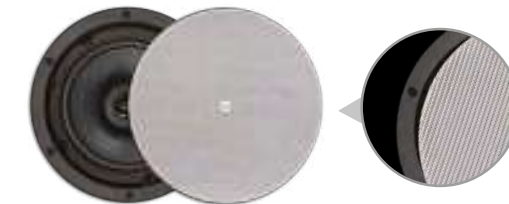
- Very thin edge design version of the classic CM bestseller, the CM608.

- Versatile design loudspeaker for any stylish interior.

- 60 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Steel grille with removable logo.
  · 6.5″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 210 (Ø) x 75 (d) mm.
  · Cutout: 186 (Ø) mm.

- Optional on-wall / in-wall back box and square grille available. (see "CMBB" on page 154 and "SQGR" on page 19)

8" TWO-WAY DESIGN LOUDSPEAKER
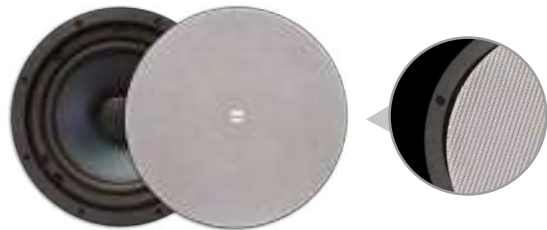
CMX20DT

IP 50 | Ω 16 | 70 | 100 | 📶 | 🖌

- Stylish and very thin edge design loudspeaker.

- Warm and deep sound ideal for speech and music.

- 20 - 10 - 5 - 2.5* watts 70 / 100 volt transformer. (* 2.5 watts @ 70 volt only)

- 100 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Steel grille with removable logo.
  · 8" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 250 (Ø) x 87 (d) mm.
  · Cutout: 223 (Ø) mm.

- Optional square grille available.
  (see "SQGR" on page 19)

8" TWO-WAY DESIGN LOUDSPEAKER

CM1008D

IP 50 | Ω 8 | 📶 | 🖌
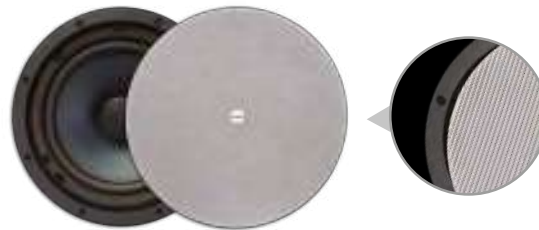
- Stylish and very thin edge design loudspeaker.

- Powerful high-end, warm sounding loudspeaker

- 100 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Steel grille with removable logo.
  · 8" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 250 (Ø) x 90 (d) mm.
  · Cutout: 223 (Ø) mm.

- Optional square grille available.
  (see "SQGR" on page 19)

6.5" QUICK-FIT TWO-WAY LOUDSPEAKER

CM6QFT

IP 50 | Ω 16 | 100 | 📶 | 🖌

- Quick-fit system saves you time and money at building site.

- Fits ceilings between 12 and 29 mm thick.

- 6 - 3 - 1.5 watts 100 volt transformer.

- 40 watts @ 16 ohms.

- Materials:
  · ABS thin edge plastic frame.
  · Steel grille.
  · 6.5" paper cone woofer, 1" tweeter.

- Dimensions:
  · 237 (Ø) x 67 (d) mm.
  · Cutout: 219 (Ø) mm.

BACK CAN DESIGN
## IMPRESSIVE DESIGN AND PERFORMANCE

These **CM design loudspeakers** have a **sealed back can** and bass reflex port which give a controlled sound performance in any kind of ceiling structure. The slim housing with minimal built-in depth has been tuned to optimise bass and midrange performance while maintaining sonic consistency. The matching Apart sound signature allows you to combine various models in the same area. All models have a tool-free rotatable power selector on the front. The thin-edge grille and neodymium grille fixing magnets guarantee an easy, smooth and elegant integration in any kind of environment. With ease of installation, dynamic sound, pristine clarity and attractive aesthetics, these loudspeakers are the clear choice for installers seeking a reliable and affordable loudspeaker with high build and excellent sound quality.
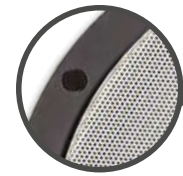
Thin edge magnetic removable grille
Very slim thin-edge grille for subtle design interior integration. Loudspeaker frame with neodymium grille fixing magnets for sturdy, stable and easy installation.

Ease-of-installation
The loudspeaker is installed by two loudspeaker clamps only, which speeds-up installation and reduces labour time. Grid tile rails are included in the box.

Handy Euroblock connector
Handy Euroblock connector with permanent pass-through. Allows easy daisy chaining of multiple loudspeakers.

Seismic safety tabs
Two integrated seismic safety tabs allow you to install the loudspeaker according to the local safety regulations.
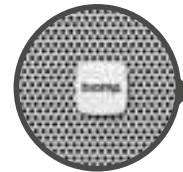
Grille with removable logo
The grille design comes with an elegant and stylish integrated Biamp logo and can be removed without inflicting damage to the loudspeaker grille. Optional square grille available. (see "SQGR" on page 19)

CM20DTS

CM30DTD

CM60DTD

model name	woofer size	tweeter size	70 volt power tappings	100 volt power tappings	music power @ 16 ohms	built-in depth	diameter	cutout	grip range
CM20DTS	4.25"	1"	20 - 10 - 5 - 2.5 - 1.25 watts	20 - 10 - 5 - 2.5 watts	60 watts	84 mm	223 mm	193 mm	3 - 41 mm
CM30DTD	4.25"	1"	30 - 15 - 7.5 - 3.75 - 1.75 watts	30 - 15 - 7.5 - 3.75 watts	80 watts	131 mm	223 mm	193 mm	3 - 65 mm
CM60DTD	6.5"	1"	60 - 30 - 15 - 7.5 - 3.75 watts	60 - 30 - 15 - 7.5 watts	120 watts	157 mm	258 mm	232 mm	3 - 65 mm

BEHIND THE GRILLE

- Integrated tuned bass reflex port for optimised low frequency performance.
- Rotatable 70/100 volt power tapping or 16 ohm selector.

CABLE MANAGEMENT
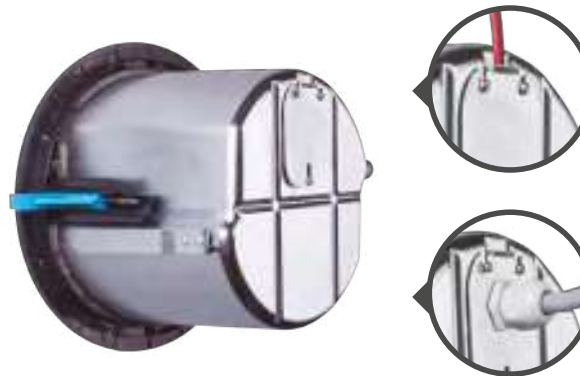
- Easy strain relief cable guidance from the side.
- Integrated break-out for a cable gland on the top.

GRID TILE RAILS

- The grid tile rails guarantee a solid and hassle-free install. The tile rail spacers allow easy spacing and parallel positioning of the tile rails. The grid tile rails and spacers are included in the box.

SQUARE
CM SERIES

SQUARE GRILLE FOR CM DESIGN SERIES

SQGR

In a lot of installs, people just want something different from the standard round built-in loudspeaker. We offer a variety of loudspeakers for background music or paging applications.

Check out our series of square ceiling loudspeakers and you'll find an Apart loudspeaker suitable for every application.

5.25" TWO-WAY LOUDSPEAKER

CMS508

- The Apart SQGR is an optional square grille with integrated safety wire that fits all loudspeakers in the CM Design Series.

- This adaptor is designed to suit contemporary interior styling converting every round CM Design loudspeaker into a loudspeaker with square grille.

- For the smaller loudspeakers in the range, adapter rings are provided in the box.

- This option is suitable for CM60DTD, CM30DTD, CM20DTS, CM1008D, CM608D, CM20DT, CMX20DT

- Dimensions:
  · 295 (h) x 295 (w) x 5.5 (d) mm.

- Small size loudspeaker with good performance.

- Suitable for humid environments.

- 50 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 5.25" enforced polypropylene woofer, 1" tweeter.

- Dimensions:
  · 171 (h) x 171 (w) x 60 (d) mm.
  · Cutout: 151 (h) x 151 (w) mm.

- Optional in-wall back box available.
  (see "CMS5BBI" on page 154)

5.25″ TWO-WAY LOUDSPEAKER

CMS15T

- Small size loudspeaker fits any interior.
- Suitable for humid environments.
- 15 - 10 - 5 - 2.5 watts 100 volt transformer.
- 50 watts @ 16 ohms.
- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 5.25″ enforced polypropylene woofer, 1″ tweeter.
- Dimensions:
  · 171 (h) x 171 (w) x 66 (d) mm.
  · Cutout: 151 (h) x 151 (w) mm.
- Optional in-wall back box available.
  (see "CMS5BBI" on page 154)

6.5″ TWO-WAY LOUDSPEAKER

CMS608

- Loved by architects for its design and versatile characteristics.
- Humidity proof, ideal for bathrooms, kitchens, ...
- 60 watts @ 8 ohms.
- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 6.5″ enforced polypropylene woofer, 1″ tweeter.
- Dimensions:
  · 201 (h) x 201 (w) x 75 (d) mm.
  · Cutout: 181 (h) x 181 (w) mm.
- Optional in-wall back box available.
  ("CMS6BBI" on page 154)

6.5″ TWO-WAY LOUDSPEAKER

CMS20T

- Loved by contractors for its design and versatile characteristics.
- Humidity proof, ideal for bathrooms, kitchens, ...
- 20 - 10 - 5 - 2.5 watts 100 volt transformer.
- 60 watts @ 16 ohms.
- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 6.5″ enforced polypropylene woofer, 1″ tweeter.
- Dimensions:
  · 201 (h) x 201 (w) x 75 (d) mm.
  · Cutout: 181 (h) x 181 (w) mm.
- Optional in-wall back box available.
  ("CMS6BBI" on page 154)

RECTANGULAR CM SERIES

Especially for in-wall use, people often tend to use rectangular loudspeakers. With the installer's ease in mind, we offer an optional back box for every single rectangular loudspeaker. Just another reason to choose Apart!

Check out our series of rectangular ceiling loudspeakers and you'll find an Apart loudspeaker suitable for every application.

5.25″ TWO-WAY LOUDSPEAKER

CMR608

| IP 54 | Ω 8 | | |
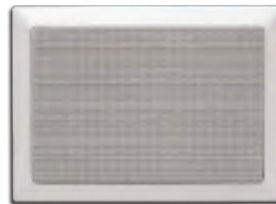
- Warm and complete sound in a small stylish housing.

- Ideal for both speech and music reproduction.

- 60 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 5.25″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 170 (h) x 237 (w) x 60 (d) mm.
  · Cutout: 146 (h) x 213 (w) mm.

- Optional on-wall / in-wall back box available. (see "CMRBB" and "CMRBBI" on page 154)

5.25″ TWO-WAY LOUDSPEAKER

CMR20T

| IP 54 | Ω 16 | 100 | | |

- Warm and complete sound in a small stylish housing.

- 20 - 10 - 5 - 2.5 watts 100 volt transformer.

- 60 watts @ 16 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille.
  · 5.25″ enforced polypropylene woofer, 1″ tweeter.

- Dimensions:
  · 170 (h) x 237 (w) x 73 (d) mm.
  · Cutout: 146 (h) x 213 (w) mm.

- Optional on-wall / in-wall back box available. (see "CMRBB" and "CMRBBI" on page 154)

HI-FI
SERIES

Discover our range of built-in loudspeakers which combines stylish design and perfect sound quality. With their rectangular or square stylish flat and slim-edge design, these loudspeakers seamlessly fit into every environment. To integrate the loudspeakers even more inconspicuously, the CMSQ and CMRQ Series can be painted in any RAL color.

The Apart High Quality CM Series are the perfect match for use in a trendy bar, atmospheric restaurant or functional meeting room and can also perfectly be used for residential purposes. Imagine the experience of our stylish loudspeakers in a 5.1 surround solution combined with your wall mounted flat screen at home!

5.25″ TWO-WAY HIGH-END LOUDSPEAKER

CMSQ108

- High-end hi-fi sound in a minimalistic design housing.

- Full range use or rear loudspeaker in surround setting.

- 50 watts @ 8 ohms.

- Materials:
  · ABS plastic frame with thin edge.
  · Steel grille.
  · 5.25″ coated Kevlar woofer, 1″ pivotable
  · tweeter.

- Dimensions:
  · 167 (h) x 167 (w) x 73 (d) mm.
  · Cutout: 148 (h) x 148 (w) mm.

- Optional in-wall back box available.
  (see "CMS5BBI" on page 154)

6.5″ TWO-WAY HIGH-END LOUDSPEAKER

CMRQ108

- High-end hi-fi sound in a stylish design housing.

- Loved by architects and interior designers.

- 120 watts @ 8 ohms with switch to 12 ohms.

- Materials:
  · ABS plastic frame with thin edge.
  · Steel grille.
  · 6.5″ coated Kevlar woofer, 1″ pivotable tweeter.

- Dimensions:
  · 296 (h) x 196 (w) x 78 (d) mm.
  · Cutout: 275 (h) x 175 (w) mm.

- Optional in-wall back box available.
  (see "CMRQ108BBI" on page 154)

SUBWOOFER SERIES

DOUBLE 5.3" TWO-WAY HIGH-END LOUDSPEAKER

CMRQ108C

[IP 60] [Ω 8] [▮▮▮] [▮]

Some background music applications need a good bass response, but for some installations there is just not enough space to install a subwoofer cabinet. The CMSUB8 stereo ceiling subwoofer can be used in almost any situation where extra bass is needed.

This subwoofer is also the ideal partner for built-in loudspeakers like CM3T, CM4 or CM4T. It can equally be combined with satellite cabinet loudspeakers such as MASK2, OVO3(T) and KUBO3(T) loudspeakers.The CMSUB8 will add plenty of bass to a system setup, creating warm, high-quality background music.

8" DUAL COIL CEILING SUBWOOFER

CMSUB8

[IP 54] [Ω 8] [▮▮▮] [▮]

- High-end hi-fi sound in a minimalistic design housing.

- Full range or center loudspeaker use in surround setting.

- 100 watts @ 8 ohms.

- Materials:
  · ABS plastic frame with thin edge.
  · steel grille.
  · 2 x 5.3" Kevlar woofer, 1" tweeter.

- Dimensions:
  · 176 (h) x 346 (w) x 69 (d) mm.
  · Cutout: 156 (h) x 326 (w) mm.

- Optional in-wall back box available.

- Inconspicuous integration of the subwoofer allows you to have a fat and deep bass sound without compromising on the space on your wall or floor.

- Ideal in combination with small ceiling loudspeakers like CM3T, CM4(T), satellite cabinet loudspeakers like MASK2, OVO3(T), KUBO3(T) and with the CHAMP-4 amplifier.

- 2 x 80 watts @ 8 ohms.

- Materials:
  · ABS plastic frame.
  · Aluminium grille with removable logo.
  · 8" dual coil coated paper woofer.

- Dimensions:
  · 246 (Ø) x 97 (d) mm.
  · Cutout: 223 (Ø) mm.

MARINE SERIES

FOR WET AND HUMID CONDITIONS

CMAR

Superb sound and efficiency even in the hottest or most humid conditions, Apart **MARINE Series** will do the job! The fully plastic housing and stainless steel grille of the **CMAR** loudspeakers are an absolute guarantee against rust and allow use in temperatures up to 95°C.

The **CMAR(T) Series** can be used in a 100 volt or low impedance set-up. The stylish and discrete MARINE loudspeakers are ideal to be installed in luxury yachts, saunas, bathrooms, ... The **MARINE Series** loudspeakers are available in 3 different sizes.

model name	CMAR5-W	CMAR5T-W	CMAR6-W	CMAR6T-W	CMAR8-W	CMAR8T-W
speaker type	Chlorine and salt water proof two-way marine loudspeaker.					
application	suitable for use in humid and hot conditions: yachts, cruise ships, swimming pools, saunas, bathrooms, ...					
woofer & tweeter	5.25" woofer, 1" tweeter		6.5" woofer, 1" tweeter		8" woofer, 1" tweeter	
low impedance power	50 watts @ 8 ohms		60 watts @ 8 ohms		100 watts @ 8 ohms	
20 - 10 - 5 - 2.5 watts 100 volt transformer	-	included in the box	-	included in the box	-	included in the box
materials	Enforced ABS plastic frame, stainless steel grille (grade 316).					
dimensions in mm	152 (Ø) x 55 (d)		190 (Ø) x 61 (d)		220 (Ø) x 76 (d)	
cutout in mm	113 (Ø)		151 (Ø)		184 (Ø)	

SPH20

OVO8-W

MASK6C-BL

KUBO5-BL

VINCI5-W

WHICH CABINET LOUDSPEAKERS TO CHOOSE IN THIS APPLICATION?

CABINET LOUDSPEAKERS

Biamp solutions used in following reference
Alexander The Great Hotel - Phapos, Cyprus

MASK SERIES

The famous Apart MASK Series is a standard in the fixed install audio industry for many years.

MASK2 small satellite loudspeakers in combination with the SUBLIME subwoofer deliver excellent sound in small or midsized locations. MASK4C and MASK6C can be used in- and outdoor for both low impedance as well as constant voltage intallations. The 8 inch version exists in a full range variant (MASK8F) or a version designed to be used with a subwoofer (MASK8). MASK12 is a two-way high power loudspeaker, is very easy to install and can be used in many indoor applications where a medium to high sound pressure level is required. Think of bars, pubs or sports grounds, fitness clubs, ... where a flexible sound system capable of both background music and foreground music is needed.

The built-in AP protection guard guarantees a fail-safe operation, even in the toughest circumstances. It makes MASK Series ultra-reliable.

2.5" COMPACT DESIGN LOUDSPEAKER

MASK2-W | MASK2-BL

IP60 Ω8

- Smaller is almost impossible. Allows easy integration into every interior.

- To be used in combination with Apart SUBLIME subwoofer. (See "SUBLIME" on page 48)

- Wall bracket included. Optional ceiling mounting bracket MASK2CMT available.
  (See "MASK2CMT" on page 157)

- 50 watts @ 8 ohms.

- Materials:
  · ABS plastic housing.
  · Plastic grille covered with cloth.
  · 2.5" paper cone woofer.

- Dimensions:
  · 94 (h) x 82 (w) x 108 (d) mm.

4.25" SMALL DESIGN TWO-WAY LOUDSPEAKER

MASK4C-W | MASK4C-BL

IP64 Ω8

- Small two-way design loudspeaker for background music or in combination with a subwoofer when higher power is needed, built-in protection makes it fail-safe.

- Can be used outdoor and indoor, Clickmount bracket and safety cable included.
  (See page 156 for other mounting solutions)

- 70 watts @ 8 ohms.

- Materials:
  · Acoustically optimised ABS plastic housing.
  · Painted aluminium grille.
  · 4.25" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 238 (h) x 144 (w) x 144 (d) mm.

4.25″ SMALL DESIGN TWO-WAY LOUDSPEAKER

MASK4CT-W | MASK4CT-BL

IP64 Ω16 ⚡70 ⚡100 📶 🖌

- Small two-way design loudspeaker ideal for background music and paging purposes. Built-in protection makes it fail-safe.

- Can be used outdoor and indoor, Clickmount bracket and safety cable included. (See page 156 for other mounting solutions)

- 70 watts @ 16 ohms.

- 20 - 10 - 5 - 2.5 - 1.25 watts @ 70 volts. 20 - 10 - 5 - 2.5 watts @ 100 volts.

- Materials: · Acoustically optimised ABS plastic housing. · Painted aluminium grille. · 4.25″ coated paper cone woofer, 1″ silk dome tweeter.

- Dimensions: · 238 (h) x 144 (w) x 144 (d) mm.

6.5″ DESIGN TWO-WAY LOUDSPEAKER

MASK6C-W | MASK6C-BL

IP64 Ω8 📶 🖌

- Stylish two-way design loudspeaker for background music or in combination with a subwoofer when higher power is needed, built-in protection makes it fail-safe.

- Can be used outdoor and indoor, Clickmount bracket and safety cable included. (See page 156 for other mounting solutions)

- 200 watts @ 8 ohms.

- Materials: · Acoustically optimised ABS plastic housing. · Painted aluminium grille. · 6.5″ coated paper cone woofer, 1″ silk dome tweeter.

- Dimensions: · 328 (h) x 198 (w) x 190 (d) mm.

6.5″ DESIGN TWO-WAY LOUDSPEAKER

MASK6CT-W | MASK6CT-BL

IP64 Ω16 ⚡70 ⚡100 📶 🖌

- Stylish two-way design loudspeaker ideal for background music and paging purposes, built-in protection makes it fail-safe.

- Can be used outdoor and indoor, Clickmount bracket and safety cable included. (See page 156 for other mounting solutions)

- 200 watts @ 16 ohms.

- 60 - 30 - 15 - 7.5 - 3 watts @ 70 volts. 60 - 30 - 15 - 6 watts @ 100 volts.

- Materials: · Acoustically optimised ABS plastic housing. · Painted aluminium grille. · 6.5″ coated paper cone woofer, 1″ silk dome tweeter.

- Dimensions: · 328 (h) x 198 (w) x 190 (d) mm.

MASKC
REVOLUTION THROUGH EVOLUTION

Building further on the renowned Apart MASK loudspeaker appreciated by installers for their ease-of-installation, sturdiness and high quality sound at an affordable price, Apart developed the **MASKC Series**. MASKC offers you an evolutionary design and a revolutionary connectivity. The design of the **MASKC** loudspeaker offers a timeless and typical Apart look and feel. Its underlying engineering evolved to a level which we have not been able to achieve before.

The patented **CLICKMOUNT** bracket is a true revolution for installers and users alike. Rigid construction to withstand the most fierce conditions in which a professional loudspeaker can be used, the **MASKC** will remain Apart's flagship for many years to come.

FACTS & FIGURES

model name	MASK4C-BL MASK4C-W	MASK4CT-BL MASK4CT-W	MASK6C-BL MASK6C-W	MASK6CT-BL MASK6CT-W
speaker type	two-way loudspeaker			
application	Indoor and outdoor use			
woofer	4.25" coated paper woofer		6.5" coated paper woofer	
tweeter	1" silk dome tweeter			
impedance	8 ohms	16 ohms	8 ohms	16 ohms
program power	70 watts		200 watts	
transformer tappings (100V)	-	20 - 10 - 5 - 2.5 watts	-	60 - 30 - 15 - 6 watts
transformer tappings (70V)	-	20 - 10 - 5 - 2.5 - 1.25 watts	-	60 - 30 - 15 - 7.5 - 3 watts
speaker construction	ABS plastic housing with painted aluminium grille			
dimensions in mm	238 (h) x 144 (w) x 144 (d)		328 (h) x 198 (w) x 190 (d)	
included accessories	ClickMount bracket, safety cable			
optional mounting options	MASKCL, MASKCV, MASKCW (see page 156)			

OVERLOAD PROTECTION

3-step overload protection

Step 1: blinking LED indication when playing too loud.

Step 2: reduced power to protect the loudspeaker.

Step 3: loudspeaker disconnects until playing less loud.

LISTENING ANGLE

5°

Tilted drivers

Incorporated 5° downtilt listening angle to allow an even higher positioning and to guarantee an elegant upright loudspeaker mounting against the wall.

ROTATABLE LOGO

UNIVERSAL **CLICKMOUNT** BRACKET FOR ALL MASKC LOUDSPEAKERS

1. Rear or top cable entry

Easy cable management due to a smart cable entry break-out on top of the bracket. A clean solution for cables descending from any kind of ceiling or wall.

2. Integrated spirit level

Very handy installation tool for fast, easy and hassle-free bracket positioning and mounting. Hidden behind the cover plate after installation.

3. Installer-friendly connectors

In and out connection terminals with lever for cables up to 4 mm², suitable when installing multiple loudspeakers in parallel.

4. Perfect loudspeaker alignment

Pre-defined clicks for perfect multiple loudspeaker alignment. Closing the quick-lock lever ensures an everlasting loudspeaker positioning.

5. Waterproof connector sealing

Click mounting the loudspeaker on the bracket is already watertight, the blue sealing strip is an additional protection against humidity guaranteeing a hassle-free installation. (IP64)

Revolutionary design

All connections are made on the ClickMount bracket. To complete the installation simply **'CLICK'** the MASKC loudspeaker on the bracket.
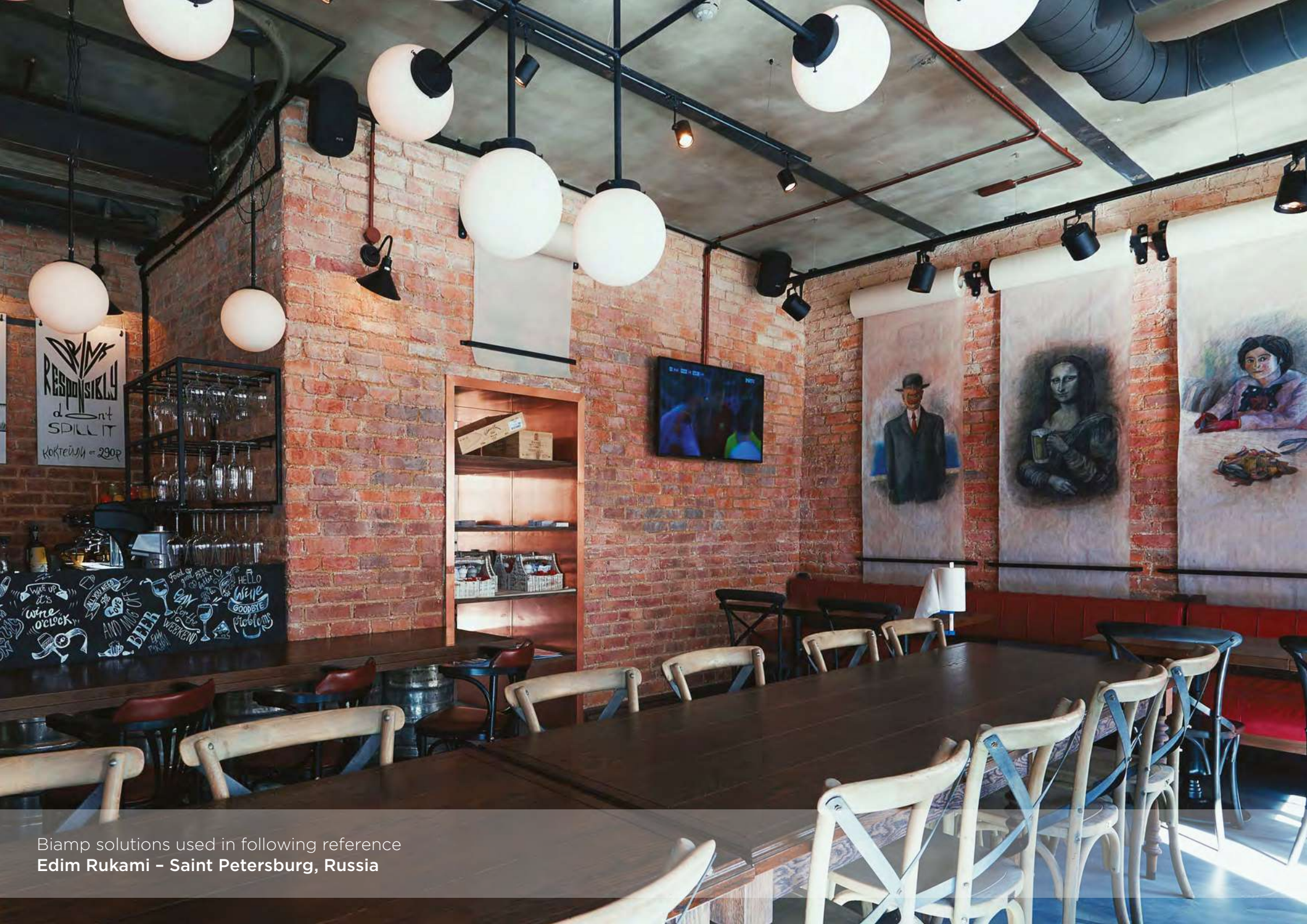
CLICK!

8" HIGH SPL TWO-WAY LOUDSPEAKER

MASK8-W | MASK8-BL

- Robust cabinet loudspeaker with timeless design.

- Designed to be used in conjunction with a subwoofer and will deliver high intelligibility and vocal perfection, built-in protection makes it fail-safe.

- U-bracket with easy mounting slide included.

- 300 watts @ 8 ohms.

- Materials:
  · MDF wood housing with rigging points.
  · Painted steel grille.
  · 8" paper cone woofer, 1" horn tweeter.

- Dimensions:
  · 411 (h) x 250 (w) x 250 (d) mm.

- Optional mounting solutions available.
  (See "STSUB" and "STT" on page 157)

8" TWO-WAY FULL RANGE LOUDSPEAKER

MASK8F-W | MASK8F-BL

- Robust cabinet loudspeaker with timeless design.

- Offers you hi-fi sound experience at higher power level. Can be used without subwoofer, built-in protection makes it fail-safe.

- U-bracket with easy mounting slide included.

- 300 watts @ 8 ohms.

- Materials:
  · MDF wood housing with rigging points.
  · Painted steel grille.
  · 8" paper cone woofer, 1" horn tweeter.

- Dimensions:
  · 411 (h) x 250 (w) x 250 (d) mm.

- Optional mounting solutions available.
  (See "STSUB" and "STT" on page 157)

12" TWO-WAY FULL RANGE LOUDSPEAKER

MASK12-W | MASK12-BL

DIN18032-3 ball impact certified

- Very powerful loudspeaker that will satisfy in terms of sound quality, reliability and set-up versatility.

- For use in full range indoor applications where a medium to high sound pressure level is required.

- Easy to install via Speakon® connectors.

- 700 watts @ 8 ohms.

- Materials:
  · Plywood housing with rigging points.
  · Painted steel grille.
  · 12" paper cone woofer, 1.4" horn tweeter.

- Dimensions:
  · 628 (h) x 370 (w) x 370 (d) mm.

- Optional mounting solutions available.
  (See "MASK12PBRA" or "MASK12UBRA" on page 156)

MASK BRACKETS

12" TWO-WAY FULL RANGE LOUDSPEAKER

MASK12T-W | MASK12T-BL

IP40 Ω8 70 100 📶 🖌️

DIN18032-3
ball impact
certified

- Powerful 12" cabinet loudspeaker with high intelligibility and output power.

- For use in full range indoor applications where a medium to high sound pressure level is required.

- Easy to install via Euroblock connectors.

- 240 watts @ 70/100 volts.
  120 watts @ 70/100 volts.

- Materials:
  · Plywood housing with rigging points.
  · Painted steel grille.
  · 12" paper cone woofer, 1.4" horn tweeter.

- Dimensions:
  · 628 (h) x 370 (w) x 370 (d) mm.

- Optional mounting solutions available.
  (See "MASK12PBRA" or "MASK12UBRA" on page 156)

The Apart MASKC Series can be mounted in almost every possible way and environment.

Whether you want to create a cluster, wall-mount or combine your loudspeaker with a subwoofer.

Find the ideal speaker mounting bracket for your application.

All mounts are designed with a combination of style, function and quality.

MASK2 BRACKET

- Turn and tilt bracket for MASK2

- Included in the box.

MASKC CLICKMOUNT

- Turn and tilt bracket for MASK4C(T) / MASK6C(T)

- All cable connections are made on the bracket

- Included in the box.

MASK8 BRACKET

- Turn and tilt bracket for MASK8(F)

- Included in the box.

MASK2CMT-BL | MASK2CMT-W

- MASK2CMT makes ceiling mounting possible for MASK2.
- Optional.

MASK12UBRA-BL | MASK12UBRA-W

- Turn and tilt bracket for MASK12(T).
- Optional.

MASK12PBRA-BL

- Pan and tilt pole bracket for MASK12(T).
- Optional.

MASKCL-BL | MASKCL-W

- Makes perpendicular mounting possible on a wall for MASK4C(T)/6C(T) loudspeakers with a CLICKMOUNT bracket.
- Optional.

MASKCV-BL | MASKCV-W

- MASKCV can carry 2 MASK4C(T)/6C(T) loudspeakers with a CLICKMOUNT bracket.
- Optional.

MASKCW-BL | MASKCW-W

- MASKCW can carry 4 MASK4C(T)/6C(T) loudspeakers with a CLICKMOUNT bracket.
- Optional.
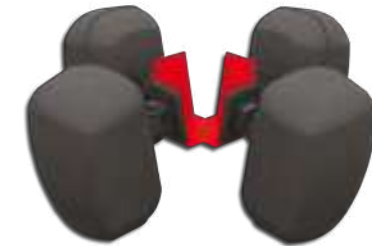
STSUB

- Pole to combine SUB2201 or SUB2400 with MASK8(F)-BL.
- Optional.

STT

- T-mount to mount two MASK8(F)-BL loudspeakers on an STSUB.
- Optional.

KUBO SERIES

KUBO
DESIGN THAT PERFORMS

KUBO is the result of the increasing market demand for stylish and more subtle design audio products. The Apart research & development department was able to create a top-notch product offering amazing sound quality and performance in a discrete and neutral housing.

The **KUBO Series** comes with a 3" full-range driver unit or 5.25" two-way loudspeaker system and bass reflex port providing a dynamic bass response. Both sizes are available in an 8 ohm version or a T-version with a rotatable 70/100 volt power tapping selector, with 16 ohm connection. The unseen original and timeless **KUBO** cabinet will blend audio in with any kind of interior, adding elegance to each and every architect designed environment.

Installer-friendly end caps

The intuitive end caps are very installer-friendly and are kept in place by 14 integrated strong neodymium magnets.

Power selector rotary

KUBO loudspeakers are available in a T-version with a rotatable 70/100 volt power tapping selector, with 16 ohms connection.

In & link connection

The in & link connection with Euroblock connectors, allows for a quick install and easy daisy chaining of multiple loudspeakers.

BEHIND THE GRILLE

- Integrated front firing bass reflex port providing a dynamic bass response.
- KUBO3(T): 3" full-range driver unit.
- KUBO5(T): 5.25" two-way loudspeaker system.

INSTALLATION VERSATILITY
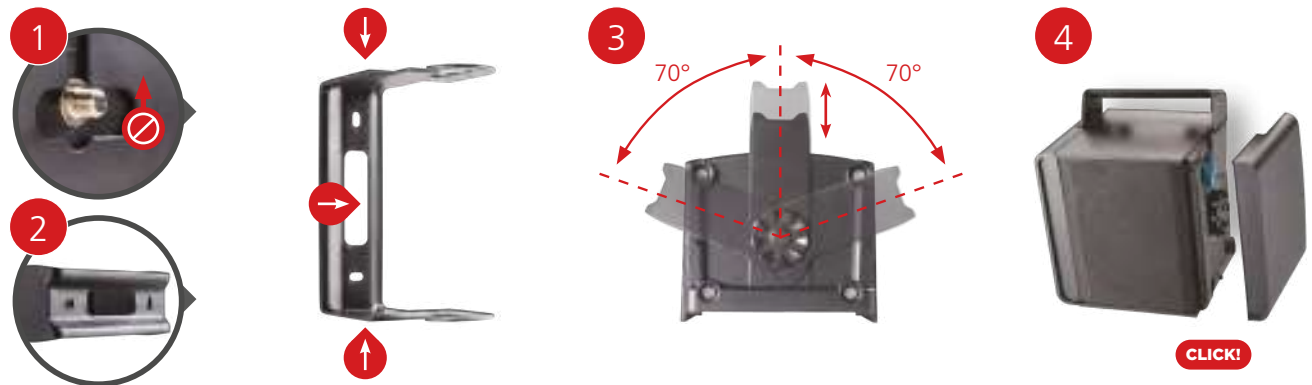
1. Easy loudspeaker hook-up due to bracket slots and custom designed fixing bolts with safety washer for secure installation.
2. Easy cable management from both sides and rear. Optional light rail adaptors (see page 38).

3. 140° vertical or horizontal installation angle. It is possible to fit the loudspeaker very close to wall or ceiling.
4. The end caps always guarantee a clean install solution, hiding the power tapping selector and bracket.

SELECT YOUR KUBO LOUDSPEAKER

model name	loudspeaker type	tweeter	woofer	70/100V power tappings	music power	impedance	color	dimensions (h x w x d)
KUBO3	full range	-	3" polypropylene	-	40 watts	8 ohms	BL - W	125 x 131 x 109 mm
KUBO3T	full range	-	3" polypropylene	10 - 5 - 2.5 watts (100V) 10 - 5 - 2.5 - 1.25 watts (70V)	40 watts	16 ohms	BL - W	125 x 131 x 109 mm
KUBO5	two-way	1" silk dome tweeter	5.25" coated paper	-	80 watts	8 ohms	BL - W	155 x 164 x 136 mm
KUBO5T	two-way	1" silk dome tweeter	5.25" coated paper	30 - 15 - 6 - 3 watts (100V) 30 - 15 - 7.5 - 3 - 1.5 watts (70V)	80 watts	16 ohms	BL - W	155 x 164 x 136 mm

LRABAS-W | LRABAS-BL

Basic light rail adaptor for easy loudspeaker mounting on a light rail. The LRABAS can be used with common used light rails and is suitable for Apart KUBO3(T)/5(T), SDQ5P(IR) and OVO5(T).

KUBO3(T) / KUBO5(T)

OVO5(T)

SDQ5P(IR)

LRAPRE-W | LRAPRE-BL

Simply connect an Apart KUBO3(T)/5(T), SDQ5P(IR), OVO5(T) loudspeaker to a light rail which is commonly used in many installations. The adaptor provides a physical connection and the possibility of an electrical connection between the loudspeaker bracket and the light rail.

KUBO3(T) / KUBO5(T)

OVO5(T)

SDQ5P(IR)

OVO SERIES

Budget and quality sound is united in the OVO Series which guarantee years of trouble-free musical enjoyment. Black or white color, low impedance or 100 volt, small or big loudspeakers, wall mounted or freestanding… the OVO Series bring rich sound quality for a wide range of applications at an affordable price!

The OVO Active Series have been designed for a wide range of indoor applications where you want to have volume control or separate bass and treble control at the back of the loudspeaker. The OVO5P bass reflex speaker has been designed for a wide range of indoor installation applications such as classrooms, boardrooms, hotel rooms or many other indoor applications where a stylish but budget friendly loudspeaker is needed. For AV monitor and educational applications requiring very high sound levels we recommend the OVO8P two-way bass reflex speaker which is so powerful you don't need a sub anymore to realize that perfect sound!

3" SMALL DESIGN TWO-WAY LOUDSPEAKER

OVO3-W | OVO3-BL

IP40 Ω8 ▦ 🖌

- Cute design loudspeaker. Can be used as stand alone for background music or in combination with a subwoofer for a rich and more powerful sound.

- Wall bracket and shelf mount adaptor included.

- 40 watts @ 8 ohms.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 3" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 160 (h) x 110 (w) x 117 (d) mm.

3" SMALL DESIGN TWO-WAY LOUDSPEAKER

OVO3T-W | OVO3T-BL

IP40 Ω16 100 ▦ 🖌

- Cute design loudspeaker. Can be used for background music and paging purposes in quiet areas like waiting areas, toilet, ...

- Wall bracket and shelf mount adaptor included.

- 40 watts @ 16 ohms.

- 6 - 3 - 1.5 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 3" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 160 (h) x 110 (w) x 117 (d) mm.

5.25" DESIGN TWO-WAY LOUDSPEAKER

OVO5T-W | OVO5T-BL

IP40 Ω16 100 ▦ 🖌

- Loved for its price quality ratio. Can be used for background music and paging purposes.

- Can be mounted with the included wall bracket or can be placed freestanding on a shelf.

- 80 watts @ 16 ohms.

- 30 - 15 - 6 - 3 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 5.25" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 260 (h) x 170 (w) x 180 (d) mm.

- Optional mounting solutions available. (See "LRABAS" and "LRAPRE" on page 38)

5.25" DESIGN TWO-WAY LOUDSPEAKER

OVO5-W | OVO5-BL

- Value for money design cabinet loudspeaker. Ideal for paging purposes and quality background music in restaurants, doctor's surgery, classrooms, ...

- Can be mounted with the included wall bracket or can be placed freestanding on a shelf.

- 80 watts @ 8 ohms.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 5.25" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 260 (h) x 170 (w) x 180 (d) mm.

- Optional mounting solutions available. (See "LRABAS" and "LRAPRE" on page 38)

8" POWERFUL TWO-WAY LOUDSPEAKER

OVO8-W | OVO8-BL

- Powerful yet compact makes the OVO8 cabinet easy to integrate. Deep sound make the OVO8 suitable for both music and speech applications.

- Can be mounted with the included wall bracket or can be placed freestanding on a shelf.

- 160 watts @ 8 ohms.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 8" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 358 (h) x 245 (w) x 250 (d) mm.

8" POWERFUL TWO-WAY LOUDSPEAKER

OVO8T-W | OVO8T-BL

- One of the most powerful and affordable 100 volt design loudspeaker on the market suitable for both music and speech applications.

- Can be mounted with the included wall bracket or can be placed freestanding on a shelf.

- 160 watts @ 16 ohms.

- 60 - 30 - 15 - 6 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Double painted steel grille.
  · 8" coated paper cone woofer, 1" silk dome tweeter.

- Dimensions:
  · 358 (h) x 245 (w) x 250 (d) mm.

OVO
ACTIVE SPEAKER SERIES

The **ACTIVE OVO Series** is known for its excellent musical quality and crystal clear voice reproduction.

OVO5P and **OVO8P** have been designed for a wide range of indoor installation applications such as classrooms, boardrooms, hotel meeting rooms or many other applications where a stylish and budget-friendly loudspeaker is needed.
On the back panel you have volume control and separate bass and treble control. **OVO5P** and **OVO8P** are either available in black or white.

FACTS & FIGURES

model name	OVO5P-W / OVO5P-BL	OVO8P-W / OVO8P-BL
speaker type	active two-way bass reflex loudspeaker	
configuration	stereo loudspeaker set with an active and passive loudspeaker	single active loudspeaker
tweeter & woofer	5.25" coated paper woofer 1" soft dome tweeter	8" coated paper woofer 1" soft dome tweeter
music power	2 x 20 watts	60 watts
speaker construction	ABS molded cabinet with double painted steel grille	
dimensions in mm	260 (h) x 170 (w) x 180 (d)	358 (h) x 245 (w) x 250 (d)
included accessories	wall brackets, power cord and manual	

SDQ5P/PIR
ACTIVE
SPEAKER
SETS

The **SDQ5P** and **SDQ5PIR** stereo loudspeaker sets stand for reliability, affordability, dynamic music and detailed voice reproduction. **SDQ5P** and **SDQ5PIR** when used in conjunction with a flat screen, projector or smart board in classrooms and boardrooms will give you a variety of sound possibilities. The **SDQ5PIR** set can be controlled from the back panel, from the included infrared remote control, via serial commands or via the Apart **ACP**, **ACPL** or **ACPR** wall control panels which allow control of power and volume. ACPL and ACPR also allow the addition of external audio inputs. Teachers, lecturers or anyone who is giving a presentation can stop worrying about audio system complexity and stay focused on their presentation.

FEATURES

- The industry standard small active loudspeaker set. No other product is as complete as the SDQ5P and the SDQ5PIR!

- The ideal and cost effective solution for your boardroom, meeting room, classroom, ...

- No ground loop issues when connecting the SDQ5P or SDQ5PIR with notoriously difficult laptops, LCD projectors or interactive white boards. Removes the headache of hum and buzz.

- Balanced input allows long signal line without interference.

- The optional wall controls ACP, ACPL and ACPR on the SDQ5PIR offer you the most cost effective and easy to use remote control possibilities. (See page 138)

- Optional lightrail adaptors available. (See "LRABAS" and "LRAPRE" on page 38)

SDQ5P-BL | SDQ5P-W

SDQ5PIR-BL | SDQ5PIR-W

CONTROLS (SDQ5PIR)

ACPL   ACPR

- ON/OFF, Volume, Mute.

- All control and power via single CAT5 cable.

- Compatible with E-MODIN / N-MODIN wall boxes. (see page 155)

- Dimensions: 85 (h) x 85 (w) x 28 (d) mm.

ACPL

- Balanced mic input (jack) and stereo line input (mini-jack).

- Increased line input sensitivity for laptops and MP3 players.

- Low-cut filter on mic input: better speech intelligibility.

ACPR

- 1 stereo line input mini-jack on the front panel.

- 1 stereo line input euro block on the rear panel.

- Auto switch to front panel input when connected.

- Increased front line input sensitivity for laptops and MP3 players.

model name	SDQ5P-BL / SDQ5P-W	SDQ5PIR-BL / SDQ5PIR-W
type	active two-way hi-fi pro, DTB Reflex tuning.	
configuration	supplied as a stereo loudspeaker set: 1 active loudspeaker & 1 passive loudspeaker.	
woofer and tweeter	low distortion high efficiency 5.25" woofer and 1" tweeter.	
music power	2 x 30 watts.	
sound characteristics	dynamic music and detailed voice clarity.	
inputs	· RCA stereo inputs. · mini-jack stereo inputs (MP3 players). · balanced inputs allow long input-signal cables.	· unbalanced stereo mini-jack connector. · balanced Euroblock connectors. · balanced inputs allow long input-signal cables.
tone Control	treble and bass.	
energy saving	-	energy saving auto standby function.
remote control	not available.	IR remote control included.
external control	not available.	RS232 control.
optional wall remote control panels	none	ACPL / ACPR
optional lightrail adaptors	LRABAS / LRAPRE	
dimensions (one loudspeaker) in mm	253 (h) x 180 (w) x 162 (d)	
included accessories	wall brackets, 3 m loudspeaker wire, mains cord and manual.	

VINCI SERIES

BREATHTAKING SOUND PURITY

VINCI4 & VINCI5

The Apart VINCI Series are fabulous and prestigious loudspeakers offering outstanding performance and value for money. The **VINCI4**, **VINCI4-16** & **VINCI5** loudspeakers are ideal for high-end boardrooms, restaurants and other more demanding commercial installs as well as typical residential fixed installs. With the **VINCI Series** Apart set a new standard in affordable reference bookshelf loudspeakers, designed with high-class components that look great with or even without the removable (magnetic) grille. **VINCI4-16** has an impedance of 16 ohms, that allows a connection of up to 4 **VINCI4-16** loudspeakers in parallel on a single amplifier channel, capable of handling a 4 ohm load.

FACTS & FIGURES

model name	VINCI4-16 (-BL / -W)	VINCI4 (-BL / -W)	VINCI5 (-BL / -W)
speaker type	two-way hi-fi loudspeaker		
recommended amplifier power	10 to 120 watts, no clipping	10 to 120 watts, no clipping	30 to 160 watts, no clipping
low impedance dynamic power	120 watts @ 16 ohms	120 watts @ 6 ohms	160 watts @ 6 ohms
frequency range	70 - 25000 Hz		60 - 25000 Hz
LF speaker	4″ coated paper cone		5.25″ Kevlar cone
HF speaker	3/4″ silk dome		
dimensions in mm (including grille)	210 (h) x 136 (w) x 164 (d)		254 (h) x 176 (w) x 198 (d)
dimensions in mm (without grille)	210 (h) x 136 (w) x 150 (d)		254 (h) x 176 (w) x 184 (d)
weight	2.1 kg		3.5 kg
cabinet material	MDF wooden bass reflex housing		
color	high gloss black or white		
wall mounting bracket (optional)	VINCI5BRA (see "VINCI5BRA" on page 157)		

Check out the optional subwoofer **VINCI8S** on page 49.

FABULOUS PRESTIGE LOUDSPEAKER
VINCI7

With its unique design and breathtaking sound purity, the **VINCI7** loudspeakers are definitely the right choice to create the perfect ambiance in your room. These wooden cabinet loudspeakers with bass port will convince you of their premium high fidelity sound possibilities. Each component was carefully ear-chosen and tested, which resulted in an ultra-linear performance that guarantees a pure sound experience. Apart **VINCI7** sets a new standard in affordable reference speakers and is made of high class components that look great with or even without the removable (magnetic) grille.

FACTS & FIGURES

model name	VINCI7
speaker type	two-way high-end hi-fi loudspeaker
recommended amplifier power	50 to 200 watts, no clipping
low impedance dynamic power	200 watts @ 6 ohms
frequency range	50 - 25000 Hz
LF speaker	7" poly cone, die cast frame
HF speaker	1" silk dome
dimensions - including grille in mm	373 (h) x 217 (w) x 318 (d)
dimensions - without grille in mm	373 (h) x 217 (w) x 300 (d)
weight	10.1 kg
cabinet material	MDF wooden bass reflex housing
color	high gloss black

COLUMN SERIES

The advanced technology of our COLUMN Series guarantees optimized sound dispersion and improved speech intelligibility suitable for installations in need of fixed loudspeakers where the environment is acoustically critical or with architectural constraints. The elegant fully aluminium design makes these column loudspeakers ideal for indoor and outdoor use: from sports fields to public buildings, public transport, educational and house of worship installations. With the tweeters positioned in the middle of the sound column, horizontal mounting under a display offers you directive sound to strengthen your promotional video message!

COLW81   COLW101   COLW41   COLS41   COLS101   COLS81

SELECT YOUR COLUMN LOUDSPEAKERS

model name	full range woofers	tweeter	70 volt power tappings	100 volt power tappings	dynamic power	8 ohm	16 ohm	dimensions (h x w x d)
COLW41	4 x 3.3"	1 x 1"	40 - 30 - 15 - 7 watts	40 - 30 - 15 watts	60 watts		•	555 x 100 x 83 mm
COLW81	8 x 3.3"	1 x 1"	80 - 40 - 30 - 15 watts	80 - 40 - 30 watts	120 watts	•		974 x 100 x 83 mm
COLW101	10 x 3.3"	1 x 1"	100 - 60 - 40 - 20 watts	100 - 60 - 40 watts	140 watts	•		1180 x 100 x 83 mm
COLS41	4 x 2"	1 x 1"	20 - 10 - 5 - 2.5 watts	20 - 10 - 5 watts	30 watts	•		400 x 66 x 66 mm
COLS81	8 x 2"	1 x 1"	30 - 15 - 6 - 3 watts	30 - 15 - 6 watts	40 watts		•	614 x 66 x 66 mm
COLS101	10 x 2"	1 x 1"	40 - 20 - 10 - 5 watts	40 - 20 - 10 watts	60 watts	•		721 x 66 x 66 mm

DID YOU KNOW?

- Tall columns have a much wider and controlled dispersion than shorter models.

- Our larger models also cover a wider area than conventional loudspeakers, so less loudspeaker cabinets are needed to achieve the same sound pressure in a certain area.

HORIZONTAL MOUNTING

- The advanced technology of our extra slim columns guarantees optimized sound dispersion and improved speech intelligibility.

- The included brackets and the different column sizes allow an easy horizontal mounting under any screen or display.

- With the tweeter positioned in the middle of the sound column, they offer you directive sound under your promotional video message. Just that little extra in spreading your message!

- Rotatable logo.

WALL BRACKET

- Standard wall bracket and installation tools included.

ACCESSORIES

COLWBRA

- Optional wall bracket for COLW range.

- Allows dual plane adjustment.

- See "COLWBRA" on page 157 for more info.

COLSBRA

- Optional wall bracket for COLS range.

- Allows dual plane adjustment.

- See "COLSBRA" on page 157 for more info.

SUBWOOFER SERIES

Subwoofers are needed to fill a room with a full rich sound and deep bass. Apart offers a selection of cabinet subwoofers which perfectly match the various cabinet and ceiling speakers on offer. Such combinations can provide solutions from simple background music systems in coffee bars or hotel receptions to high power systems for music entertainment in bars or clubs.

Meet the Apart range of subwoofers in the following chapter and you will quickly embrace them as a valuable addition to your installation artillery.

COMPACT PASSIVE 6.5″ DUAL COIL SUBWOOFER

SUBLIME-W | SUBLIME-BL

IP20 | Ω8 | ▭

- The thinnest subwoofer on the market allows an easy integration into any interior; on the wall, behind curtains or under furniture.

- It is the ideal partner for the MASK2, KUBO3, OVO3, CM3T or CM4.

- Wall mounting brackets and installation template included.

- 2 x 80 watts @ 8 ohms.

- Materials:
  · MDF wooden housing PVC cover.
  · 6.5″ dual coil woofer.

- Dimensions:
  · 420 (h) x 470 (w) x 120 (d) mm.

COMPACT ACTIVE 8″ SUBWOOFER

SUBA165-W | SUBA165-BL

IP20 | Ω4 | 🔌 | ▭

- The ideal solution for that extra bass in your project.

- Ideal in combination with MASK, OVO, KUBO Series.

- Control the volume and adjust the cross-over frequency on the back of the unit.

- Input signals can be from a stereo loudspeaker signal or line level signal.

- Auto power on/off energy saving feature.

- 140 watts @ 4 ohms.

- Materials:
  · MDF wooden housing with PVC cover.
  · 8″ HD woofer.

- Dimensions:
  · 356 (h) x 260 (w) x 405 (d) mm.

COMPACT PASSIVE 10" SUBWOOFER

SUB2201-BL

- A smooth and punchy bass makes your music experience complete. The SUB2201 takes little space and still brings you this experience.

- Fill your bar, restaurant, shop or multipurpose room with a full spectrum sound.

- Ideal in combination with CHAMP-3D, MASK and OVO series.

- 250 watts @ 4 ohms.

- Materials:
  · Plywood housing with structured paint.
  · 10" long stroke woofer.

- Dimensions:
  · 600 (h) x 300 (w) x 380 (d) mm.

- Other mounting options available (see pg 157).

POWERFUL PASSIVE DUAL 10" SUBWOOFER

SUB2400-W | SUB2400-BL

- Fill your bar, club, pool house or restaurant with an incredible punchy bass.

- Ideal in combination with CHAMP-3D, MASK6 or MASK8.

- Double 10" woofers allow for a faster and stronger response than 15" subwoofers.

- 600 watts @ 4 or 16 ohms (selectable).

- Materials:
  · Plywood housing with structured paint.
  · 2 x 10" dual coil long X-max woofer.

- Dimensions:
  · 700 (h) x 352 (w) x 450 (d) mm.

- Other mounting options available (see pg 157).

HI-FI ACTIVE 8" SUBWOOFER

VINCI8S-W | VINCI8S-BL

- This active subwoofer with high-end power amplifier is designed to reproduce a fat and deep bass at moderate sound pressure levels.

- Thanks to its discrete design and small dimensions it is very easy to integrate in many applications.

- Ideal in combination with VINCI4, VINCI4-16, VINCI5 or VINCI7 loudspeakers.

- Automatic standby mode less than 0.5 watts power consumption.

- 125 watts @ 4 ohms.

- Materials:
  · MDF wooden housing with high gloss paint finish.
  · 8" long throw woofer.

- Dimensions:
  · 345 (h) x 262 (w) x 405 (d) mm.

SM6 SERIES

BUDGET-FRIENDLY MULTI-PURPOSE SM6 SERIES

The **SM6 Series** offer a complete range of budget-friendly multi-purpose functional 100 volt cabinet loudspeakers. With excellent sound quality and a no-frills design that is instantly recognizable as 'Apart'.

Available in white and grey, with or without bracket, with or without a volume control (hidden under the logo panel). This series has all the options for professional use in public buildings, schools, parking garages, supermarkets... Even where budget is vital, Apart puts you in pole position!

SM6   SM6V   SMB6   SMB6V

SELECT YOUR SM6 LOUDSPEAKERS

model name	color	surface mounting	closed cabinet with Bracket	volume control
SM6-G	grey	•		
SM6-W	white	•		
SM6V-G	grey	•		•
SM6V-W	white	•		•
SMB6-G	grey	•	•	
SMB6-W	white	•	•	
SMB6V-G	grey	•	•	•
SMB6V-W	white	•	•	•

FEATURES

- Complete range of budget cabinet loudspeakers: with or without wall bracket, with or without volume control.

- Suited for both background music and paging.

- 6 - 3 - 1.5 watts 100 volt transformer.

- Volume control, if fitted, is recessed and can be hidden under the logo shield.

- Quick-fit cable clamps for quick and easy installing saves you time and money.

- Materials:
  · ABS plastic housing.
  · Steel painted grille.
  · 5.25" paper cone woofer.

- Dimensions:
  · 202 (w) x 140 (h) x 72 (d) mm.

PENDANT
SERIES

Installations with high ceilings or large open spaces need loudspeakers which can cover an expansive area. The PENDANT Series allow a loud and wide sound dispersion to be produced with a minimal number of loudspeakers. SPH16 and SPH20 are both suited for announcements and background music, they allow you to make a very competitive offer. While the P60DT offers warm speech and musical purity over a large surface area. Using less loudspeakers also has an impact on your required amplifier power and installation cost also drops. All without compromising on sound quality and intelligibility. Sounds like the right choice to me!

TWO-WAY PENDANT SPHERE LOUDSPEAKER

SPH16

IP53 · 100

- The best solution for background music or speech in industrial buildings or supermarkets with high ceilings (at least 4.5 m).

- The two-way loudspeaker gives you a natural music reproduction and high speech intelligibility.

- This loudspeaker comes with 4.5 m cable with a safety cord inside.

- 16 - 8 - 4 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · 5.25″ paper cone woofer and 1″ tweeter.

- Dimensions:
  · 180 (Ø) mm.

360° DISPERSION SPHERE LOUDSPEAKER

SPH20

IP63 · 100

- The best solution for background music or speech in industrial buildings or supermarkets with high ceilings (at least 4.5 m).

- The 360° dispersion characteristics reduce the quantity of speakers that are needed. Hence the installation cost and needed amplifier power will be reduced allowing a more competitive offer.

- This loudspeaker comes with 3.3 m cable with a safety cord inside.

- 20 - 10 - 5 - 2.5 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · 8″ paper dual cone woofer.

- Dimensions:
  · 255 (Ø) mm.

P30DT & P60DT

GREAT SOUND FOR BIG SPACES

The **P30DT** and **P60DT** two-way, pendant loudspeakers bring exceptional dispersion to areas and rooms with high-ceilings or large open spaces, while offering a clear speech and musical purity. Available in black and white, **P30DT** and **P60DT** are suitable for a wide range of background and foreground sound applications. The dual Gripple® wire suspension system, Euroblock in/out connector, loudspeaker cables and 70/100 volt power rotary with 16 ohms connectivity can be hidden after installation by the innovatively designed end-cap. The attractive aesthetics and ease-of-installation make this product an industry standard.

Installer-friendly end cap with cut-out slot
Innovatively designed end-cap with integrated magnetic fixing hides the power setting and all cable connections and can be installed after the loudspeaker is hung.

Dual Gripple® wire suspension system
Two Gripple® wire suspension cables are supplied in the box for a safe and secure, easy and fast installation.
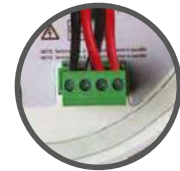
Handy Euroblock connector
Handy Euroblock connector with permanent pass-through allows for a quick install and easy daisy chaining of multiple loudspeakers.

Power selector rotary
The 70/100 volt power tapping can be selected using the rotary on the top of the loudspeaker and also offers 16 ohms connectivity.

Integrated tuned bass reflex port
The integrated tuned bass reflex port offers a dynamic and optimised low frequency performance.

model name	woofer size	tweeter size	power tappings 70 / 100 V	music power @ 16 ohms	dimensions	available colors
P30DT	4.25″	1″	30 - 15 - 7.5 - 3.75 - 1.75* W (* 1.75 W @ 70 V only)	50 watts	223 (h) x 233 (Ø) mm	W/BL
P60DT	6.5″	1″	60 - 30 - 15 - 7.5 - 3.75* W (* 3.75 W @ 70 V only)	60 watts	265 (h) x 276 (Ø) mm	W/BL

ROCK
SERIES

The weatherproof and inconspicuous design of the ROCK Series make these loudspeakers disappear into a natural environment. Experience an amazing sound everywhere although the loudspeakers are hidden in your garden, pool area or theme park.

Don't forget the large residential applications where they can be installed! Who doesn't want to listen to music while working in the garden or relaxing on the terrace?

ROCK DESIGN OUTDOOR LOUDSPEAKER

ROCK608

IP64 | 8 Ω | ⚡ | 🖌

- Relaxing on your terrace or in your garden with your favourite artist in the background, what else do you need?

- An ideal solution to bring music and messages in your theme park, restaurant, greenhouse or garden. Just hide the rock between plants and people will wonder where that great sound is coming from.

- 60 watts @ 8 ohms.

- Materials:
  · Grey ABS plastic housing.
  · 6.5″ polypropylene structured woofer,
   1″ tweeter.

- Dimensions:
  · 260 (h) x 200 (w) x 280 (d) mm.

ROCK DESIGN OUTDOOR LOUDSPEAKER

ROCK20

IP64 | 100 | ⚡ | 🖌

- Relaxing on your terrace or in your garden with your favourite artist in the background, what else do you need?

- Even when long loudspeaker wires need to be used or multiple speakers are needed this 100 volt version of the rock will do the job.

- 20 -10 - 5 - 2.5 watts 100 volt transformer.

- Materials:
  · Grey ABS plastic housing.
  · 6.5″ polypropylene structured woofer,
   1″ tweeter.

- Dimensions:
  · 260 (h) x 200 (w) x 280 (d) mm.

HM25-G

H30LT-G

MPLT32-G

MPBD20-G

MPH31-G

WHICH HORNS OR MUSIC PROJECTORS TO CHOOSE IN THIS APPLICATION?

HORNS & MUSIC PROJECTORS

Biamp solutions used in following reference
Greenhouse - Baku, Azerbaijan

HORN SERIES

Creating an entertaining atmosphere in a warehouse helps to increase the effectiveness of the employees. But even more important is the fact you can reach all of them for announcements in case of emergency.

The Apart HORN Series delivers excellent voice quality over a long distance for every indoor or outdoor commercial application. Usually the words 'commercial' and 'clear sound' are not compatible with each other, although Apart proves they can be!

VERY COMPACT COMPRESSION DRIVER HORN

H10-G

- Ideal for speech and alarm signals.
- The stainless steel bracket and rust free bolts and screws make this horn suited for indoor and outdoor use.
- 20 watts @ 8 ohms.
- 10 - 5 - 2.5 - 1.25 watts 100 volt transformer.
- Materials:
  · High impact ABS plastic housing.
  · Stainless steel bracket.
  · Compression driver.
- Dimensions:
  · 140 (Ø) x 190 (d) mm.

COMPACT COMPRESSION DRIVER HORN

H20-G

- Ideal for speech and alarm signals in a noisy environment.
- The stainless steel bracket and rust free bolts and screws make this horn suited for indoor and outdoor use.
- 30 watts @ 8 ohms.
- 20 - 10 - 5 - 2.5 watts 100 volt transformer.
- Materials:
  · High impact ABS plastic housing.
  · Stainless steel bracket.
  · Compression driver.
- Dimensions:
  · 200 (Ø) x 230 (d) mm.

METAL COMPRESSION DRIVER HORN

HM25-G

- Completely made from aluminium.

- Ideal for long distance speech and alarm sounds in evacuation systems. Ceramic connector and thermal fuse allow use in EN60849 safety systems.

- Exceptional sensitivity makes the HM25-G suitable for the toughest circumstances including high speed railway tunnels and stations, ...

- 25 - 20 - 10 watts 100 volt transformer.

- Materials:
  · High impact aluminium housing.
  · Coated aluminium bracket.
  · Aluminium inner compression driver.

- Dimensions:
  · 206 (Ø) x 266 (d) mm.

UNIVERSAL COMPRESSION DRIVER HORN

H30LT-G

- An ideal solution to cover long and wide distances for your speech reproduction, both indoor and outdoor. Even with higher background noise your message will be heard loud and clear!

- The shape of the horn guarantees a wide horizontal dispersion.

- 45 watts @ 8 ohms.

- 30 - 15 - 7.5 - 3.75 watts 100 volt transformer.

- Materials:
  · High impact ABS plastic housing.
  · Stainless steel bracket.
  · Compression driver.

- Dimensions:
  · 207 (h) x 285 (w) x 283 (d) mm.

POWERFUL TWO-WAY LONG THROW HORN

MPLT32-G

- Whenever you need to cover a long distance with both speech and music, this is your ideal solution. Once tried, you will never use anything else.

- The two-way characteristic makes your music still sound natural where the horn shape housing makes sure you cover a big distance. The best of both worlds.

- 32 - 16 - 8 - 4 watts 100 volt transformer.

- Materials:
  · High impact ABS plastic housing.
  · Coated aluminium bracket.
  · 6.5" coated HD woofer, 1" horn driver.

- Dimensions:
  · 250 (h) x 360 (w) x 290 (d) mm.

MUSIC PROJECTOR SERIES

POWERFUL TWO-WAY LONG THROW HORN

MPLT62-G

IP 66 | 100 | ▦ | ▤

Music gives everyone a happy feeling, but unfortunately distorted music can put us in an unpleasant mood. Therefore Apart music projectors are especially designed for high quality music reproduction in many industrial or professional applications, both in- and outdoors.

These loudspeakers combine a rugged housing with good sound quality and have either epoxy coated, aluminium or stainless steel mounting brackets. Your only guarantee for long-term and rust-free outdoor use!

COMPACT MUSIC PROJECTOR

MP16-G

IP 56 | 100 | ▦ | ▤

- Whenever you need to cover a long distance with both speech and music, this is your ideal solution. Once tried, you will never use anything else.

- The two-way characteristic makes your music still sound natural where the horn shape housing makes sure you cover a big distance. The best of both worlds.

- 62 - 32 - 16 - 8 watts 100 volt transformer.

- Materials:
  · Housing out of high impact ABS.
  · Coated aluminium bracket.
  · 6.5" coated HD woofer and 1" horn driver.

- Dimensions:
  · 250 (h) x 360 (w) x 290 (d) mm.

- A natural sound for your background music and your speech reproduction is guaranteed.

- Be assured that people hear and understand your messages or advertisements in shopping streets, parking lots, loading docks or warehouses.

- The shape of the bracket allows installing without removing the bracket. A time saving advantage!

- 16 - 10 - 5 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Coated aluminium grille and bracket.
  · 5.25" coated paper dual cone woofer.

- Dimensions:
  · 138 (h) x 156 (w) x 228 (d) mm.

POWERFUL MUSIC PROJECTOR

MP26-G

IP 56 | 100 | | |

- Even with some background noise, a natural sound for your background music and your speech reproduction is guaranteed.

- Be assured that people hear and understand your messages or advertisements in shopping streets, parking lots, loading docks or warehouses.

- The shape of the bracket allows installation without removing the bracket. A time saving advantage!

- 26 - 20 - 10 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Coated aluminium grille and bracket.
  · 6.5″ coated paper dual cone woofer.

- Dimensions:
  · 170 (h) x 187 (w) x 270 (d) mm.

BI-DIRECTIONAL MUSIC PROJECTOR

MPBD20-G

IP 64 | 100 | | |

- Ideal for corridors, shopping areas, car parks.

- With 2 speakers pointing in opposite directions, less loudspeakers are needed. This saves you money on the product, amplifier power and installation time.

- The multi-positioning bracket makes it easy to mount on a ceiling, on a wall or in the corner of wall and ceiling.

- 20 - 10 - 5 watts 100 volt transformer.

- Materials:
  · ABS plastic housing.
  · Coated aluminium grille and bracket.
  · 2 x 5.25″ coated paper dual cone woofer.

- Dimensions:
  · 140 (h) x 144 (w) x 270 (d) mm.

HORN LOADED MUSIC PROJECTOR

MPH31-G

IP 54 | Ω 8 | 100 | | |

- The ideal solution in a noisy area where you need the sound to be more directive; e.g: production hall, warehouse, ...

- The power selection switch at the back makes the life of the installer easier.

- 30 watts @ 8 ohms.

- 30 - 15 - 7.5 - 4 watts 100 volt transformer.

- Materials:
  · ABS plastic housing and grille.
  · Coated aluminium bracket.
  · 5.25″ coated paper cone woofer.

- Dimensions:
  · 170 (h) x 226 (w) x 244 (d) mm.

EN-MP5T10-W

EN-CM5T6

EN-SMS6MT6-W

EN-H15-G

EN-SPH6T20-W

WHICH EN54-24 CERTIFIED LOUDSPEAKERS TO CHOOSE IN THIS APPLICATION?

EN54-24 CERTIFIED LOUDSPEAKERS

Biamp solutions used in following reference
Panorama Plaza Shopping Centre - Riga, Latvia

EN54-24
CM SERIES

In April 2011, a European standard came in place stating that every voice alarm system has to be compliant to the EN54 regulation. The Apart EN54-24 CM series is a range of built-in ceiling loudspeakers made of powder coated steel and certified according to EN54-24 norms. These speakers are equipped with a ceramic speaker line connector block, thermal fuse and metal firedome. Installation can easily be done via the spring loaded clamps and included PG16 cable glands.

Popular applications for the EN54-24 CM series are background music, microphone paging calls and of course voice alarm evacuation systems where these loudspeakers broadcast a warning of a fire or other dangerous event to the occupants of a building.

EN54-24 CERTIFIED 5" LOUDSPEAKER

EN-CM5T6

EN 54-24 certified
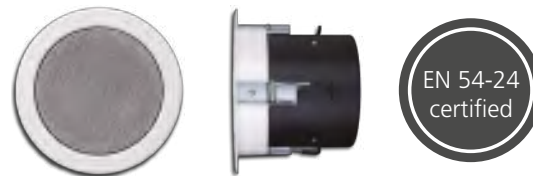
- Budget friendly loudspeaker for paging, voice alarm and low level background music.

- Ceramic speaker line connector block, thermal fuse and metal firedome.

- 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Steel frame and grille.
  · 5.25" coated paper cone woofer.

- Dimensions:
  · 180 (Ø) x 158 (d) mm.
  · Cutout: 172 (Ø) mm.

EN54-24 CERTIFIED 6" LOUDSPEAKER

EN-CM6T6

EN 54-24 certified

- Loudspeaker for evacuation purposes, paging & pre-recorded messages and background music.

- High efficiency loudspeaker equipped with firedome, ceramic connector block and thermal fuse.

- 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Steel frame and grille.
  · 6.5" coated paper cone woofer.

- Dimensions:
  · 220 (Ø) x 137 (d) mm.
  · Cutout: 199 (Ø) mm.

EN54-24
SM6 SERIES
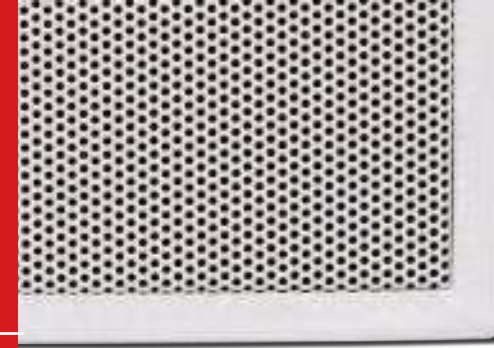
EN54-24 CERTIFIED 6″ TWO-WAY LOUDSPEAKER

EN-CMX6T10

EN54-24 Functional SM6 Series are ideal cabinet loudspeakers for applications like public buildings, supermarkets and schools in audio systems that need to be compliant with the EN54-24 voice alarm systems standard. Available in an ultra-robust and vandal-proof full metal version or a more cost effective wooden version, Apart offers you exactly those loudspeakers needed to make you win the project you are quoting.

EN54-24 CERTIFIED 6″ LOUDSPEAKER

EN-SM6T10-W

- Two-way loudspeaker offering a detailed and powerful sound for demanding applications.

- Suited for paging, voice alarm systems and quality background music.

- Equipped with a ceramic speaker line connector block, thermal fuse and metal firedome.

- 10 - 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Steel frame and grille.
  · 6.5″ paper cone woofer, 0.5″ tweeter.

- Dimensions:
  · 220 (Ø) x 159 (d) mm.
  · Cutout: 203 (Ø) mm.

- Surface mounted round speaker for background music, microphone calls (paging) and evacuation systems.

- Ceramic speaker line connector block and thermal fuse.

- 10 - 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Powder coated steel chassis and grille.
  · 6.5″ paper cone woofer.

- Dimensions:
  · 170 (Ø) x 75 (d) mm.

EN54-24 CERTIFIED 6.5" LOUDSPEAKER

EN-SMS6T6-W

IP 54 | 100 | ▁▃▅▇ | 🖌
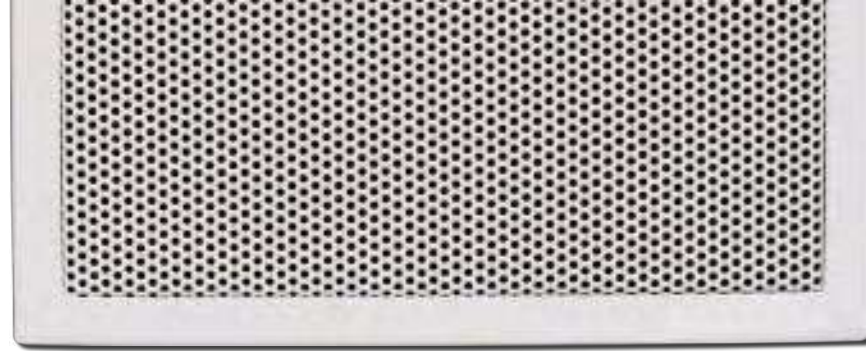
EN 54-24 certified

- Surface mounted rectangular speaker for background music, microphone calls (paging) and evacuation systems.

- Ceramic speaker line connector block and thermal fuse.

- 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · MDF-wood chassis.
  · Powder coated steel grille.
  · 6.5" paper cone.

- Dimensions:
  · 192 (h) x 252 (w) x 82 (d) mm.

EN54-24 CERTIFIED 6.5" LOUDSPEAKER

EN-SMS6MT6-W

IP 21 | 100 | ▁▃▅▇ | 🖌

EN 54-24 certified

- Surface rectangular square speaker for background music, microphone calls (paging), pre recorded messages and voice alarm systems.

- Ultra robust & vandal proof.

- Ceramic speaker line connector block and thermal fuse.

- 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Powder coated steel chassis and grille.
  · 6.5" paper cone woofer.

- Dimensions:
  · 192 (h) x 252 (w) x 82 (d) mm.

EN54-24 MUSIC PROJECTOR SERIES

EN54-24 music projectors are the perfect solution for applications where it's important to have a good speech intelligibility and background music. The completely sealed powder coated aluminium housing together with the junction box make the EN-MP5T20-W protected against the most humid and challenging climate conditions.

The bi-directional version Apart offers you gives a complete arsenal to quote each and every tender, no matter if it is in- or outdoors.

EN54-24 CERTIFIED 5.25" MUSIC PROJECTOR

EN-MP5T20-W

IP65 | 100 | |

EN 54-24 certified

- Compact, stylish and powerful sound projector for background music, speech reproduction and voice alarm systems.

- Equipped with a ceramic speaker line connector block, junction box, thermal fuse and stainless steel installation bracket.

- 20 – 15 – 10 – 5 watts 100 volt transformer.

- Materials:
  · Aluminium chassis.
  · Powder coated steel grille.
  · 5.25" coated paper cone woofer.

- Dimensions:
  · 140 (h) x 156 (w) x 183 (d) mm.

EN54-24 CERTIFIED 2 X 5.25" MUSIC PROJECTOR

EN-MPBD5T10-W

IP54 | 100 | |

EN 54-24 certified

- Bi-directional sound projector ideal for corridors, shopping streets or car parks.

- With 2 speakers pointing in opposite directions, less loudspeakers are needed.

- Ceramic speaker line connector block and thermal fuse.

- 10 - 6 – 3 – 1.5 watts 100 volt transformer.

- Materials:
  · Aluminium chassis.
  · Powder coated steel grille.
  · 2 x 5.25" coated paper cone woofer.

- Dimensions:
  · 165 (h) x 200 (w) x 164 (d) mm.

EN54-24
HORN SERIES

EN54-24 Horn Series are weatherproof loudspeakers that have been designed for speech reproduction and voice alarm signals. EN-H10-G and EN-H15-G have a stainless steel installation bracket which makes them suited for both indoor and outdoor use in industrial applications.

The high output power makes it possible to cover large areas without compromising on speech intelligibility, which is one of the critical key performance indicators of voice alarm systems.

The quality of the ABS housing ensures they are UV and impact protected. Together with the stainless steel bracket and components used inside, this is an extra guarantee for a long and reliable life cycle.

EN54-24 CERTIFIED COMPRESSION DRIVER HORN

EN-H10-G

EN 54-24 certified
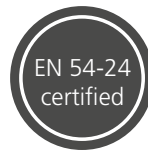
- Compact horn speaker ideal for speech and alarm messages in industrial applications.

- Equipped with a ceramic speaker line connector block, junction box, thermal fuse and stainless steel installation bracket.

- 10 watts @ 20 ohms.

- 10 - 5 – 2.5 – 1.25 watts 100 volt transformer.

- Materials:
  · ABS plastic chassis.
  · Compression driver.

- Dimensions:
  · 142 (Ø) x 210 (d) mm.

EN54-24 CERTIFIED COMPRESSION DRIVER HORN

EN-H15-G

EN 54-24 certified

- Powerful horn speaker ideal for speech and alarm signals in industrial environments with a higher background noise level.

- Equipped with a ceramic speaker line connector block, junction box, thermal fuse and stainless steel installation bracket.

- 15 watts @ 20 ohms.

- 15 – 7.5 – 3.75 – 1.87 watts 100 volt transformer.

- Materials:
  · ABS plastic chassis.
  · Compression driver.

- Dimensions:
  · 209 (Ø) x 272 (d) mm.

EN54-24
SPHERE SERIES

The EN54-24 Sphere loudspeakers are pendant sound projectors with a perfect synergy between intelligibility and musical sound quality. Especially in buildings with high ceilings, the dispersion pattern makes these loudspeakers very popular and cost effective.

The EN-SPH5T16-W and EN-SPH6T20-W have been EN54-24 certified which ensures that in case of a dangerous event in the venue, the evacuation instructions are intelligible and people can be informed about the actions they need to take.

EN54-24 CERTIFIED 5″ SPHERE LOUDSPEAKER

EN-SPH5T16-W
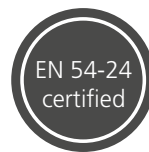
- A compact sphere speaker ideal for background music or speech in industrial applications or buildings with high ceilings.

- Equipped with a ceramic speaker line connector block and thermal fuse.

- 16 - 8 – 4 watts 100 volt transformer.

- Materials:
  · ABS plastic chassis and grille.
  · 5.25″ paper cone woofer.

- Dimensions:
  · 185 (Ø) x 157 (d) mm.

EN54-24 CERTIFIED 6″ SPHERE LOUDSPEAKER

EN-SPH6T20-W

- A performant and high efficient sphere loudspeaker ideal for background music or speech in industrial applications or buildings with high ceilings.

- Equipped with a ceramic speaker line connector block, thermal fuse and a power selector switch.

- 20 watts @ 8 ohms (via the power selector switch at the top of the speaker).

- 20 - 15 – 10 – 5 – 2.5 watts 100 volt transformer.

- Materials:
  · ABS plastic chassis and grille.
  · 6.5″ paper cone woofer.

- Dimensions:
  · 260 (Ø) x 245 (d) mm.

PM1122

ZONE4

REVAMP2150

AUDIOCONTROL12.8

CONCEPT1

WHICH ELECTRONICS TO CHOOSE IN THIS APPLICATION?

ELECTRONICS

Biamp solutions used in following reference
University Bar - Tirana, Albania

PREZONE1
STEREO PRE-AMP WITH 2 STEREO VOLUME ZONES

The Apart **PREZONE1**, a multi-functional stereo preamplifier that allows you to independently control the volume in 2 stereo zones. It gives you the possibility to mix the 2 microphone levels easily with one of the 4 music sources. The innovative and extremely intuitive design of the front panel instantly indicates how to operate the progressive **PREZONE1**. The logical rear panel gives every installer an instant understanding on how to install the unit. It's easy to distinguish the **PREZONE1** from its competitors. Its higher signal to noise ratio, ease-of-use, logical design and versatile installer features makes it suitable for almost every professional audio application.

(rear panel on page 170)

FEATURES

- User-friendly intuitive front and rear panel.
- Smart left-to-right 3-level priority for audio routing.
- Cutting-edge, modern and durable design.
- Great audio quality.
- Dimensions: 2U, 88 (h) x 483 (w) x 300 (d) mm.

INPUTS

- Emergency input triggered by contact closure or vox level (vox level can be switched off).
- 2 mics with balanced mono mic / line input and mono summed stereo RCA.
- Independent dual tone control for each microphone.
- Mic A with vox: talk-over (-30 db) activation threshold.
- 4 stereo line music inputs.

OUTPUTS

- 2 stereo volume zones.
- Independent on/off button per zone on the front panel.
- Independent mono/stereo switch per zone on the rear panel.
- Independent dual tone control of the music source per zone on the rear panel.
- Balanced (Euroblock) and unbalanced (RCA) connectors.

FRONT PANEL

Illuminated volume control

Clear indication of the music output level via rotary control and illuminated LED ring.

Mic A and mic B buttons

The clearly illuminated microphone select buttons intuitively guide you to their corresponding volume controls.

Mic A and mic B volume controls

Recessed rotary volume controls for mic A and B. Both signals go directly to the outputs.

Source select buttons

Toggle between 4 inputs or switch the selected input off. This input is used for both zones.

System indications

4 on-board system indicators constantly reporting on the status of the pre-amplifier.

Input labelling

Pre-defined and blank input labels are supplied in the box to guide every user to the right source.

REAR PANEL

! Can be used with (D-)ALINP local input panel (See page 141).

PRIORITY LEVELS

Priority 1: emergency input

· Triggered by contact closure or vox level (vox level can be switched off).
· Overrules standby and mutes all other priority levels (inputs).
· Balanced line input.
· Volume control with clip LED indication.

Priority 2: mic A input

· Balanced mono mic / line input and mono summed stereo RCA with dual EQ.
· 48 volt phantom power (defeatable).
· Mic / line switch: mic with high-pass speech filter.
· Input gain control with clip LED indication.
· Vox level: talk-over (-30 db) activation threshold (vox level can be switched off).

Priority 3: mic B input

· Balanced mono mic / line input and mono summed stereo RCA witch dual EQ.
· 48 volt phantom power (defeatable).
· Mic / line switch: mic with high-pass speech filter.
· Input gain control with clip LED indication.

Priority 3: music inputs 1-4

· Stereo line music inputs with gain control and clip LED indication.

Front button standby mode reduces the power consumption to less than 1.8 watts. Standby can be deactivated by pressing the standby, mic or source buttons. Applying an emergency signal via contact closure or vox level will also disable the standby mode.

PREZONE2
STEREO PRE-AMP
WITH 2 STEREO
SOURCE & VOLUME ZONES

The Apart **PREZONE2**, a multi-functional stereo preamplifier that allows you to independently control the music source selection and volume in 2 stereo zones. It gives you the possibility to mix the 2 microphone levels easily with one of the 4 music sources in each zone. The innovative and extremely intuitive design of the front panel instantly indicates how to operate the progressive **PREZONE2**. The logical rear panel gives every installer an instant understanding on how to install the unit. It's easy to distinguish the **PREZONE2** from its competitors. Its higher signal to noise ratio, ease-of-use, logical design and versatile installer features make it suitable for almost every professional audio application.

(rear panel on page 170)

FEATURES

- User-friendly intuitive front and rear panel.
- Smart left-to-right 4-level priority for audio routing.
- Wall panel, RS232, ethernet control and configuration possibilities.
- Web page user interface for smartphone, tablet and PC.
- 24V priority output triggered by paging and emergency to overrule local passive volume controls for each zone.
- Dimensions: 2U, 88 (h) x 483 (w) x 300 (d) mm.

INPUTS

- Emergency input triggered by contact closure or vox level (vox level can be switched off).
- Selective zone paging mic input triggered by contact closure and independent mic volume control for each zone.
- 2 mics with balanced mono mic / line input and mono summed stereo RCA. Each with 48V phantom power and independent dual tone control.
- Mic A with vox: talk-over (-30 db) adjustable activation threshold.
- 4 stereo line music inputs.

OUTPUTS

- 2 stereo source and volume zones.
- Independent mono/stereo switch per zone on the rear panel.
- Independent dual tone control of the music source per zone on the rear panel.
- Balanced (Euroblock) and unbalanced (RCA) connectors per zone.

FRONT PANEL

Illuminated volume control

Music output level via rotary encoder with illuminated LED ring level indication.

Mic A and mic B buttons

The clearly illuminated microphone select buttons intuitively guide you to their corresponding volume controls.

Mic A and mic B volume controls

Rotary LED ring volume controls for mic A and B per zone. Both signals go directly to the outputs.

Source select buttons

Toggle between 4 inputs or switch the selected input off. You can select the same input for both zones.

System indications

5 on-board system indicators constantly reporting on the status of the pre-amplifier.

Input labelling

Pre-defined and blank labels are supplied in the box to guide every user to the right source and zone.

REAR PANEL

| 1 | 2 | 3 | 4 |

priority levels

a. Can be used with MICPAT-2 microphone (See page 129).
b. Can be used with (D-)ALINP local input panel (See page 141).
c. Can be used with (D-)DIWAC wall panel (See page 137).

PRIORITY LEVELS

Priority 1: emergency input

· Triggered by contact closure or vox level (vox level can be switched off).
· Overrules standby and mutes all other priority levels (inputs).
· Balanced line input.
· Volume control with clip LED indication.

Priority 2: paging input

· Triggered by contact closure for each zone.
· Overrides auto standby and mutes all lower priority inputs.
· Balanced mic/line input (mic with high-pass speech filter).
· Input gain control with clip LED indication.
· Volume per zone.
· Chime level control (defeatable).

Priority 3: mic A input

· Balanced mono mic / line input and mono summed stereo RCA with dual EQ.
· 48 volt phantom power (defeatable).
· Mic / line switch: mic with high-pass speech filter.
· Input gain control with clip LED indication.
· Vox level: talk-over (-30 db) adjustable activation threshold (vox level can be switched off).

Priority 4: mic B input

· Balanced mono mic / line input and mono summed stereo RCA with dual EQ.
· 48 volt phantom power (defeatable).
· Mic / line switch: mic with high-pass speech filter.
· Input gain control with clip LED indication.

Priority 4: music inputs 1-4

· Stereo line music inputs with gain and clip LED indication.
· input 1: balanced and unbalanced input 2 - 4: unbalanced.

Auto standby mode activates after 10 minutes without signal and reduces the power consumption. Standby mode can be deactivated by pressing any front panel button, applying audio to a selected input, an emergency / paging signal or using any remote control device. The rear standby switch enables or disables the auto standby mode.

MULTIFUNCTIONAL STEREO PRE-AMPLIFIER

PM1122

The **PM1122** is a pre-amplifier that has 2 stereo output zones and up to 11 inputs (5 mic / line, 4 line inputs and 2 optional local inputs). Each input can be assigned to one of the output zones what allows you to create a true 2-zone system.

The optional wired remote controls, **PM1122R**, **PM1122RL, ALINP** and **D-ALINP** make the pre-amplifier extremely easy to use and in case you want to integrate the pre-amplifier in your complete AV solution, serial control is available via the optional digital interface **PM1122-INT**.

FEATURES

- Ideal for 1 and 2 zone applications where you need different volume levels and / or a different sound source.

- All mic / line inputs can be assigned to zone 1, zone 2 or both output zones.

- Buttons can be covered with an included metal plate to avoid tampering.

- Dimensions: 1U, 44 (h) x 483 (w) x 222 (d) mm.

INPUTS

- 5 mic / line inputs:
  · With phantom power switch at the rear.
  · Assignable to zone 1, zone 2 or zone 1 + 2.
  · Individual tone, gain and vol. control per input.
  · Noise gate on mic mix level on all inputs.
  · Input 5 can be linked to / from another PM1122.

- 4 stereo line inputs.

- 2 optional remote control local inputs.

OUTPUTS

- 2 stereo output zones.

- Stereo line source selector per output.

- Music volume and mic mix volume control per output.

- Bass - treble tone control per output.

- Mono – stereo switch per output.

ACCESSORIES

PM1122-INT

- 2-zone digital remote interface for RS232 control.
- Up to 64 presets programmable and accessible via RS232.
- 2 x 6 presets directly accessible via contact closure.
- LED status indication on front panel.

PM1122 METAL COVERS

- Metal cover for mic inputs and zone 2 output included.

BB1 | BB2 | BBI1 | BBI2

- On and in-wall mounting boxes for the PM1122R & PM1122RL remote controls.
- See page 155 for more info.

PM1122R

- Analog remote control.
- Source select, mic mix volume, Music volume.
- Easy wiring via standard UTP CAT5 cable.
- See "PM1122R" on page 142 for more info.

PM1122RL

As PM1122R, but with additional:

- Balanced mic (XLR) & line input (stereo mini jack).
- Level control & tone control for local input.
- See "PM1122RL" on page 142 for more info.

ALINP | D-ALINP

- Active local input panel.
- Connect a music source and/or microphone via a mic / line input with phantom power and adjust the volume.
- See "ALINP" and "D-ALINP" on page 141 for more info.

Biamp solutions used in following reference
Bistro Point Restaurant - Gibraltar, UK

MULTI-FUNCTIONAL STEREO PRE-AMPLIFIER

PM7400MKII

The **PM7400MKII** is a stereo pre-amplifier which is suitable for many applications like clubs, bars, restaurants, fitness...

The music tone control of the 6 possible line inputs and 2 microphones can be configured on the front panel. **PM7400MKII** is equipped with 2 stereo outputs which can both be controlled individually.

Excellent sound quality and the fact that this pre-amplifier only takes 1 unit of rack space will make the **PM7400MKII** an essential part of your audio solution!

FEATURES

- Very easy to use and versatile pre-amplifier.

- Ideal when you want to control the volume independently in 2 stereo zones.

- Allows you to mix the microphone level easily with the music sources.

- Dimensions: 1U, 44 (h) x 483 (w) x 259 (d) mm.

INPUTS

- 6 stereo line inputs with volume and tone control.

- 2 mic inputs with tone control and individual volume control.

- Vox mute on mic input 1.

OUTPUTS

- 2 stereo output zones.

- Independent volume control per output zone.

- Line source selector.

ETHERNET CONTROLLED MULTI-ZONE MATRIX

AUDIOSYSTEM8.8

Although it can look quite simple, a small multi-zone installation can easily turn into a complex job. The installer needs to install and connect many electronic units (sources, pre-amplifiers, amplifiers, wall panels, …) in order to provide the perfect audio solution for his customer.

With Apart's **AUDIOSYSTEM8.8** the installer can now propose a complete audio system to his customers that covers many small or medium sized applications… with just one unit!

FEATURES

- The installer can easily access the integrated web server based GUI to configure AUDIOSYSTEM8.8. It can be remote controlled via the (D-)DIWAC wall panels, but thanks to the web server based GUI also via any smartphone, tablet or computer that has a web browser installed. Browse to the correct URL and as soon as the GUI opens, it's a piece of cake to configure the unit as an installer or control it as a user.

- AUDIOSYSTEM8.8 stands for easy configuration and straight forward control!

- The applications for AUDIOSYSTEM8.8 are almost endless: doctor or dentist surgeries, supermarkets, bars and restaurants, office buildings, hotels, sport centres, wellness areas or schools, …

- The unit has 4 built-in FM tuners and has 8 built-in 30 watt class-D amplifiers.

- An all-call or in the configuration pre-defined selective zone paging is possible. This can ideally be done with Apart MICPAT-D.

DIWAC | D-DIWAC

- Fully configurable wall control panel compatible with AUDIOSYSTEM8.8.

- The (D-)DIWAC can control audio and control functions (e.g. source selection, volume up/down or tuning the radio frequency).

- See "DIWAC" and "D-DIWAC" on page 137.

MICPAT-D

- All-call dynamic paging microphone.

- Clear voice, no feedback.

- Toggle switch: Talk - Off - Continuous talk.

- No batteries, no power supply required.

- With 3 m cable and DIN5 connector.

- See "MICPAT-D" on page 130.

WEBSERVER BASED GUI

- Configure and control the system with a PC, tablet or smartphone via your internet browser.

INPUTS & OUTPUTS

- The unit is also equipped with an emergency mute input that can be useful to connect the AUDIOSYSTEM8.8 to the central PA system of a shopping mall for example. The emergency messages coming from the central audio system will then overrule the music in the shop if necessary. Once the contact is closed, the complete AUDIOSYSTEM8.8 is muted so priority messages or door bells can clearly be understood or heard.

- Party mode function allows playing the same music in a number of zones and can be controlled via the (D-)DIWAC in the master zone.

- Via the web server, an ALL OFF function can be chosen to shut down the entire audio system.

- Out of the box the AUDIOSYSTEM8.8 is configured with 4 stereo inputs and 4 stereo output zones. On the wall panels you have source selection and volume control. Of course 4 stereo built-in tuners are also available.

- 4 stereo or 8 mono powered outputs, 30 watts per channel.

- 4 of the 8 powered outputs are also available as line output.

- Possibility to connect up to 8 (D-)DIWAC wall controls.

- 1 paging mic + contact closure (all-call).

- Emergency mute input.

4-ZONE STEREO PRE-AMPLIFIER

ZONE4

The intuitive pre-amplifier **ZONE4** allows you to control four stereo zones with just one affordable unit. In any of the 4 zones you can play music that comes from one of the 4 connected music sources. It is also possible to freely assign the 3 microphones to each zone.

Other big advantages of the **ZONE4** are the digital display, remote control panels (**ZONE4R**) or RS232 control. **ZONE4** gives you the competitive edge to tackle even the most daunting challenges!

FEATURES

- This 4 stereo zone pre-amplifier allows you to have a different sound source in each zone and to have 3 assignable microphones connected. One of these microphones can have priority or can be a 4-zone selective paging microphone.

- The unit can be controlled from the front panel, the optional digital remote control panel or via the RS232 connecton.

- Dimensions: 1U, 44 (h) x 483 (w) x 184 (d) mm.

INPUTS

- 3 mic inputs with volume and tone control, assignable to the output zones via dip switches.

- Mic 1 can be a priority mic (contact closure) or selective paging mic.

- Phantom power supply on mic 2 and 3 activated via dip switch.

- 4 stereo inputs on RCA connectors.

OUTPUTS

- 4 stereo output zones.

- Line source selector per output.

- Music volume and mic mix volume control per output.

- Bass - treble tone control per output.

- Mono - stereo switch per output.

APPLICATION SUGGESTION

ZONE4

RCA

PMR4000RMKIII

RCA

REVAMP4100

UTP CAT5

REVAMP4100

ZONE4R

ZONE4R
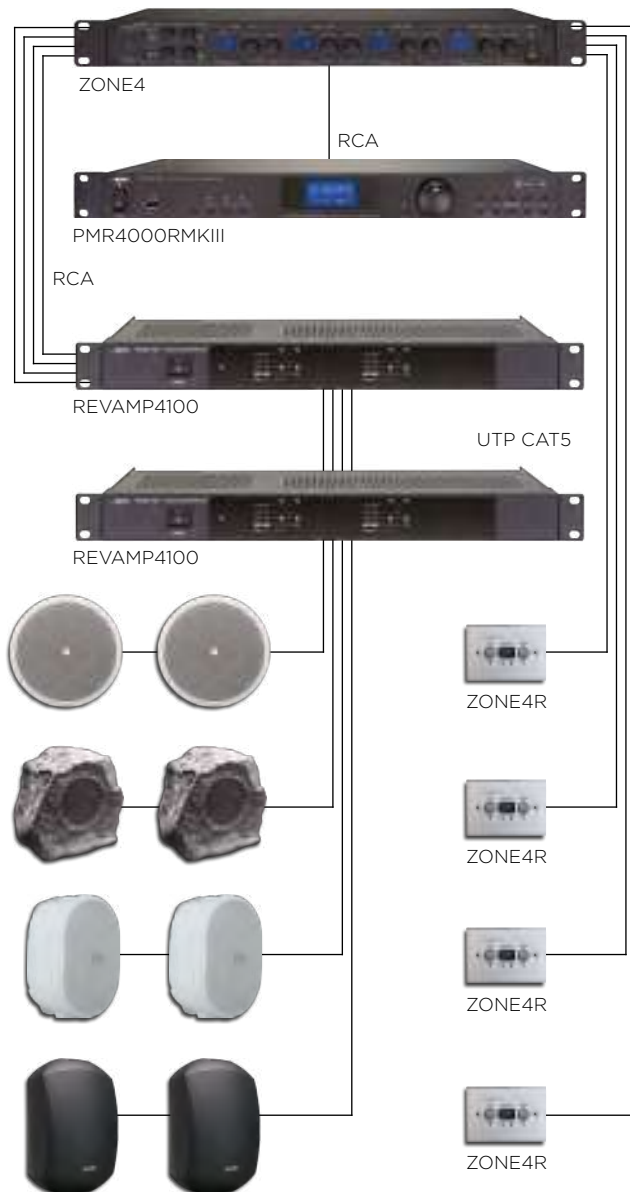
ZONE4R

ZONE4R

ACCESSORIES

MICPAT-4

- Designed to operate plug and play with ZONE4.
- Selective paging and "page ALL".
- See "MICPAT-4" on page 129 for more info.

ZONE4R

- Basic controls with status display.
- Music level and mic-mix level control & mute, source select.
- See "ZONE4R" on page 139 for more info.

ZONE4 METAL COVERS

- Metal cover for mic settings included.

RJ45SPLIT

- RJ45 splitter: 1 in, 4 out to connect more MICPAT-4 or ZONE4R control panels.
- See "RJ45SPLIT" on page 159 for more info.

BB1 | BBI1

- On and in-wall mounting boxes for the ZONE4R remote control.
- See page 155 for more info.

AUDIO PROCESSING
CONTROL PROCESSING
COMPREHENSIVE PAGING

AUDIOCONTROL12.8

AUDIOCONTROL12.8 is a unique matrix thanks to its combination of audio processing, control processing and endless paging possibilities. It's your all in one audio and control centre for small and medium-sized applications at a very competitive price! 12 inputs, 8 outputs and an integrated real time task scheduler allow you to perform a variety of tasks of choice that ensure the **AUDIOCONTROL12.8** is suitable for any project. **AUDIOCONTROL12.8** has an extremely installer-friendly graphical installer interface (GII12.8) that enables any integrator to configure this Apart flagship. The digital paging possibilities are endless and we are proud that it is designed by Apart Audio in Belgium and manufactured in Europe!

FEATURES

- The AUDIOCONTROL12.8 matrix controls much more than your audio! You can have different sound sources in different zones at various volume levels, do selective paging and on top of that control other devices as well. Briefly; your all in one audio and control center!

- The GII12.8 has 2 modes to configure the device: In the Expert mode you have full access to the DSP and macro programming. No experience with this? No problem: in the installer mode, configuring the unit is a piece of cake.

- The AUDIOCONTROL12.8 has a real time clock built in making event scheduling possible so you can decide when the school bell has to ring, when the advertisement has to be heard in the supermarket or when a series of RS232 control strings need to be sent to other devices.The automation possibilities are therefore unlimited.

- The AUDIOCONTROL12.8 uses a fixed architecture DSP platform meaning that the audio path has the same fixed signal flow on all inputs and outputs resulting in a blazing fast performance with only 12 ms propagation delay.

- When you want to use the all call DIMIC1 or selective paging microphone DIMIC12, the chime to announce paging calls is built-in.

- Also available with built-in Feature Pack as AC12.8SET. More info about "AC12.8FP" and "AC12.8SET" on page 84.

- Dimensions: 1U, 44 (h) x 483 (w) x 310 (d) mm.

CONTROL

- With the AUDIOCONTROL12.8 you are able to control the level of each of the music inputs, select which source you want to hear in a particular zone or combination of zones and of course control the volumes of the connected microphones. This can easily be done via the (D-)DIWAC wall control, via pre-programmed buttons on the DIMIC12(S), serial commands or via the logic input contacts on the optional AC12.8FP feature pack.

- On top of that you can also control other devices via the two RS232 serial ports. You can for example program some buttons of the paging microphones to operate as PLAY - PAUSE - STOP button on the PC1000RMKII / PCR3000RMKII media player. Of course this function isn't limited to Apart products.

- Possible to assign the function of the 3 serial ports
  · Program the AUDIOCONTROL12.8 by GII12.8
  · External control of the AUDIOCONTROL12.8
  · RS-port control of other devices

- Via the GII12.8 (Graphical Installer Interface) you can easily record, store and recall a series of commands (Macro) so that you can create presets e.g. during weekdays you want your sound system to function at background music level but on Friday and Saturday evenings you want your sound system to be at dance level. With a simple push of a button or automated via the event scheduler you can, for example, activate subwoofers, change source selection, DSP sound settings, ...

- You can set each macro as dual function macro.
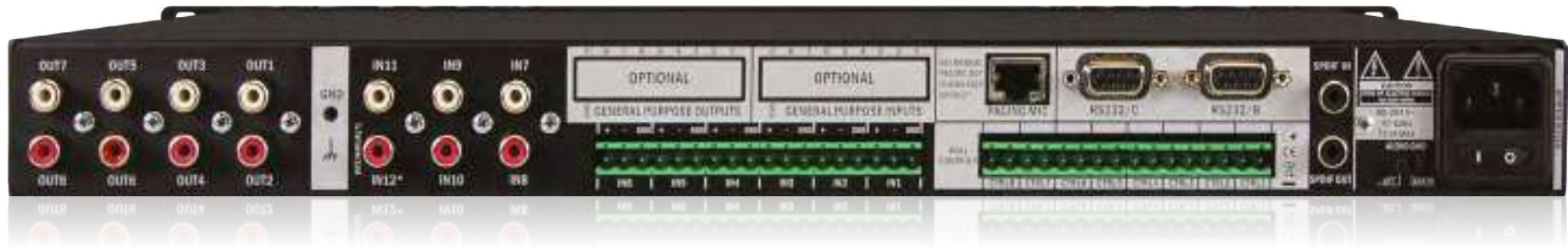
INPUTS & OUTPUTS

- The AUDIOCONTROL12.8 has 12 analog inputs. 6 of them are on balanced Euroblock and have a complete microphone pre-amplifier available. The other 6 are on RCA.

- 1 additional stereo SPDIF input and output is also available.

- The 8 line RCA outputs can be configured via the GII12.8 to be mono, stereo, 2.1, stereo 2-way or mono 2-way.

- Via the RJ45 paging mic connector you can connect up to 120 paging stations. (DIMIC1, DIMIC12)

- On the inputs you have DSP with the following blocks: parametric EQ, audio filtering and dynamics processing (compressor, limiter, gate, automatic level control).

- On the outputs you have DSP with the following blocks: parametric EQ, audio filtering, compressor and limiter.

- A total of 8 digital wall controls (DIWAC) can be connected by using a two wire cable to each of the dedicated wall control inputs.

PAGING LINKING

- The paging linking allows expansion to a 16 or 24 zone paging system.

- Paging of all zones is done via DIMIC1 or DIMIC12(S).

- Maximum two slaves can be added to a AUDIOCONTROL12.8 (24 zones).

AC12.8SET

The AC12.8SET offers additional multi-purpose inputs and outputs
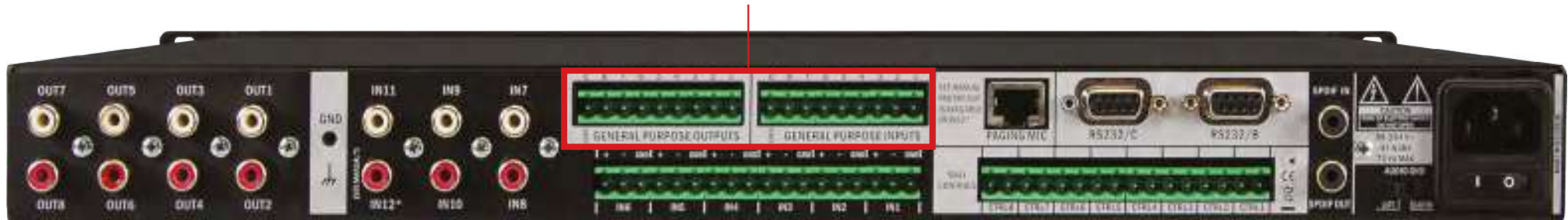
The **AC12.8SET** offers additional features like message player, general purpose inputs & outputs, output delay and zone combining.

These extra features can all be integrated in macros you can program within the GII12.8. Each of the 48 available macros can be configured to play messages, open doors, start a presentation or combine zones... all with just a simple push of a button.
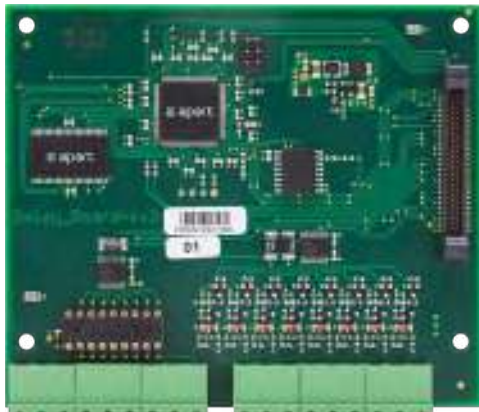
LOGICAL INPUTS

- 8 logical inputs can be programmed to recall presets or pre-defined actions in the AUDIOCONTROL12.8.

- Can recall macros and can be set latching or non-latching.

- Logic inputs programmable for logic 0, logic 1 or toggle.

- 56 logic input combinations possible.

0 - 10V (0 - 10 KOHM) INPUTS

- The 0 - 10 volt (0 - 10kΩ) inputs can be used to control any fader within the AUDIOCONTROL12.8.

- Compatible with the Apart N-VOL10K or other third party devices that have 0-10 volt (0 - 10kΩ) output.

LOGICAL OUTPUTS

- 8 logical outputs of AUDIOCONTROL12.8 to be used to control external devices, open doors, ring bells, control lights, ...

- Polarity inverse on/off or toggle functions to change status or function of connected devices.

- Paging priority can be activated what allows local volume controls to be overridden during paging.

OUTPUT DELAY

- Allows to implement a delay on each audio output up to 314 m (910.14 ms) with 0.1 m precision on each output.

- Typical applications:
  churches, theaters, big meeting rooms, applications where you need to cover large distances between loudspeakers.

MSG PLAYER - RECORDER

- Possibility to record and playback 8 fixed messages

- Recording from a DIMIC1 or DIMIC12 paging station, AUDIOCONTROL12.8 audio input or audio output of your computer.

- Playback possible in any zone or combination of zones.

- Popular application:
  · stores – announce that the store is going to close
  · schools – to sound a school bell
  · DIY stores – often used at assistance counters to ask for more information.

ZONE COMBINING

- Intuitive way to combine up to 4 zones in 2 zone groups.

- Wizard based easy setup in four steps of your zone combinations in the graphical installer interface.

- Logical input configuration and macros you have made in the GII12.8 are generated automatically through the wizard.

1. How many zones do you want to combine?	The desired zone combinations are recorded into macros. If logical inputs were selected, the logic input table in the logic inputs tab will be configured automatically as well. If needed, a zone combining setup diagram can be saved, copied to the clipboard or printed.
2. What is the used shape?	
3. How are the zones placed in the shape?	
4. Select the desired zone combinations and give them names.	

ALINP | D-ALINP

- ALINP = ACTIVE LOCAL INPUT PANEL.

- It amplifies and mixes your local mic / line input.

- No complex devices with multiple buttons to control… just plug in and control the volume, nothing more, nothing less!

- Allows you to connect a music source and/or microphone in a blink of an eye!

- Phantom powered, so no additional power supply needed. For use with any mixing desk, matrix or pre-amplifier that has a mic / line input with at least 24V phantom power supply (e.g. AUDIOCONTROL12.8, PM1122, MA30, MA60, MA120, MA240, MA247 and MA247MR mixing amplifiers).

- Line and microphone inputs are automatically mixed together.

- Built-in mic pre-amplifier and high quality input transformer (to avoid ground loops) guarantees an exceptional audio quality.

- Push lock volume buttons.

- ALINP fits into E-MODIN and N-MODIN.

- See "ALINP" and "D-ALINP" on page 141 for more info.

DIPEX

- DIPEX = Digital Priority / Emergency Extender.

- Allows you to:
  · connect message players (e.g. promotional messages in supermarkets that change on a daily basis or modern pop tunes as an alternative to the boring old fashioned school bell…).
  · make a connection with EVAC and alarm centrals (e.g. evacuation messages, alarm signals, …).
  · do paging via the telephone PBX.
  · create an overall mute input for the AC12.8.

- When the DIPEX has been triggered, the line level signal will go into the AUDIOCONTROL12.8 via the DIMIC paging bus.

- The priority level of DIPEX can be set between zero and 7. The "priority zero"makes the line level signal of the DIPEX have absolute priority. A must in case of emergencies. Priority zero is only available on the DIPEX and cannot be selected on DIMIC microphones.

- When the priority switch is activated, the chime for the AUDIOCONTROL12.8 will not sound (in case of emergency every second counts!).

- Another advantage of DIPEX is its full range sound quality that allows alarms or messages between 20 Hz and 20 kHz.

- Balanced line-in allows the use of long cables.

- Configuration/test button, power and multi-color status LED.

Corporate

Retail

Foodservice
& Hospitality

AUDIOCONTROL12.8 PAGING AND CONTROL STATIONS

DIMIC12

- The DIMIC12 is a fully programmable control and paging station. Each button of the DIMIC12 can be configured and it is you who decides what each button does.

- The DIMIC12 has a flexible dynamic microphone and the high quality microphone capsule guarantees a high intelligibility.

- Each button can be assigned to:
  · page zones individually or page a group of zones.
  · audio functions like volume up/down, mute a zone, source selection.
  · control: trigger pre-programmed macros or functions of other serial controlled devices (e.g. play - pause - stop - next - previous of the PC1000RMKII media player or other serial controlled devices).

- The robust and heavy weight design of the base is ideal for table top use. The base can also be wall mounted.

- During configuration you can decide if the call buttons are latching or non-latching.

- Via the RJ45 connector you can connect up to 120 paging stations to the AUDIOCONTROL12.8.

DIMIC12S

- This is an expansion panel for the DIMIC12 and it provides you with 12 extra buttons.

- Each button can be assigned to:
  · page zones individually or page a group of zones.
  · audio functions like volume up/down, mute a zone, source selection.
  · control: trigger pre-programmed macros or functions of other serial controlled devices (e.g. play - pause - stop - next - previous of the PC1000RMKII media player or other serial controlled devices).

WALL CONTROL PANEL

GII12.8

- You can connect up to 7 pieces of the DIMIC12S to one DIMIC12. In that way you can have up to 96 assignable buttons per paging station. Talk about flexibility!

- The DIMIC12S is easily connected to the DIMIC12.

DIMIC1

- Easy to use paging station with single call button.

- Programmable operation.

DIWAC | D-DIWAC

- Fully configurable wall control panel.

- The (D-)DIWAC can control audio and control functions (e.g. source selection, volume up/down or can even trigger a macro).

- Use the select UP/DOWN buttons to select functions, the +/- buttons to enable or disable functions or to bring the volume up or down.

- Connecting the (D-)DIWAC can't be easier as it is done via a 2 wire cable. You don't even need to care about the polarity.

- GII12.8 is a PC based interface for configuration of the AUDIOCONTROL12.8. The setup is so easy that every integrator is able to program it.

- Via the GII12.8 you can do the entire configuration of the AUDIOCONTROL12.8 and the programming of the functions of the other devices you want to control via the serial ports.

- The audio monitor allows you to listen to the audio, no matter where you are in the signal path.

- Once you have entered all settings, you can make a printout so that the installer knows exactly where to connect which sound source and zone amplifier.

- The configuration can be saved on your computer. In that way you can copy it easily to other devices and you always have a backup at hand.

PROFESSIONAL
INTEGRATED
AMPLIFIER

CONCEPT1

For a long time, installers worldwide have been unhappy with consumer electronics and they were looking for a professional integrated amplifier for use in commercial environments, boardrooms or small businesses designed for 24/7 operation. Therefore Apart developed the **CONCEPT1**. This amplifier can operate with one stereo zone, two volume-linked zones, or two individual-volume zones. **CONCEPT1** also offers versatile user and installer settings, RS-232 control, gain-adjustable line-inputs, a mic input for paging, and many other professional features.

FEATURES

- This stereo or 2 mono channel amplifier is the perfect professional solution for your small and medium-sized projects. No more need for consumer hi-fi devices or midi systems!

- The unit can be controlled via RS232 making integration into your AV solution possible.

- The built-in limiters and system design guarantee a fail safe solution 24 hours a day, 7 days a week.

- The unit has user settings and installer settings which make the end-user's life as easy as can be. Only the absolute necessary features like volume and tone control and source selection can be adjusted by the end user.

- Dimensions: 2U, 88 (h) x 483 (w) x 320 (d) mm.

INPUTS & OUTPUTS

- Inputs:
  · 4 stereo line inputs.
  · 1 dynamic microphone input for 1 or 2 zone paging.

- Outputs:
  · CONCEPT1: 2 x 80 watts @ 4 ohms.
  · CONCEPT1T: 2 x 60 watts @ 100 volts.
  · Variable line output.
  · Variable pre-amplifier output.

CONCEPT1

- Integrated stereo mixing amplifier.
- Dynamic output power: 2 x 80 watts at 4 ohms.

CONCEPT1T

- 100 volt integrated mixing amplifier.
- RMS output power: 2 x 60 watts @ 100 volts.

ACCESSORIES

CONCEPT1T-KIT

- Transforms a CONCEPT1 into a 100 volt CONCEPT1T.

3 OPERATING MODES
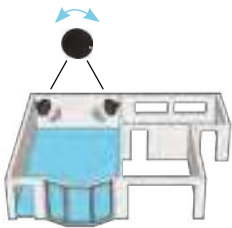
1 STEREO zone   2 INDIVIDUAL volume linked MONO zones   2 INDIVIDUAL MONO zones
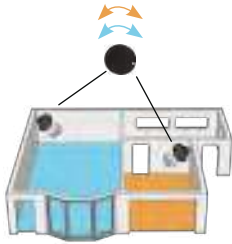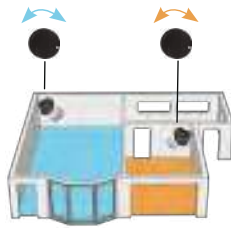
CONCEPT1 gives you the choice between 1 stereo zone, 2 individual zones or 2 individual volume-linked zones*, at the touch of a button!

* In a volume-linked zone system, the volume of both zones goes up or down simultaneously at the turn of the volume button, while maintaining the proportional volume difference between the two zones.

MICPAT-2

- 2-zone dynamic paging microphone.
- See"MICPAT-2" on page 129 for more information.

CONCEPT1-RC

- Infrared remote control.

USER SETTINGS

- Simple and easy.
- Music volume control.
- Mic level control.
- Bass / treble tone control.

INSTALLER SETTINGS

- Advanced and secure.
- Operating mode settings.
- Maximum music and mic volume.
- Gain input adjustment.
- Automatic loudness on/off.
- Paging on/off per zone.

BRACKETS

- Removable rack ears included.

INTEGRATED STEREO AMPLIFIER

VINCI2125

No matter which way you look at it: for music lovers 'stereo' is still the quickest way to high-quality listening pleasure.

With the **VINCI2125**, Apart has created a great sounding amplifier that can blast life into a wide range of loudspeakers. This high class integrated amplifier has 4 digital stereo inputs, 3 analog stereo inputs and 1 high class phono (cartridge) input.
Compare the **VINCI2125** with a big bulky esoteric well-known amplifier and you will be amazed by it's performance!

FEATURES

- For those that aren't satisfied easily and are in the pursuit of sound perfection. What goes in, comes out... No balance or tone control, just your pure sound experience.

- Its minimalistic design with just 2 buttons makes the unit extremely easy to use. Switch the unit on or off, choose your sound source and control the volume, ... Nothing more and nothing less.

- VFD (Vacuum Flourescent Display) can be dimmed via the IR remote control.

- A sturdy and robust extruded aluminium IR remote control is included.

- Dimensions: 80 (h) x 445 (w) x 450 (d) mm.

INPUTS & OUTPUTS

- Inputs:
  · 4 x 24 bit digital stereo inputs (3 x SPDIF, 1 optical).
  · 3 analog stereo inputs with highgrade CD connector.
  · 1 phono input with moving coil / moving magnet selector.

- Outputs:
  · Dynamic output power: 2 x 160 watts @ 4 ohms.
  · Dynamic output power: 2 x 100 watts @ 8 ohms.
  · High-class loudspeaker wire binding terminals.

MA120/240

REDEFINITION
OF THE
MIXING AMPLIFIER

The revolutionary Apart **MA120** and **MA240** mixing amplifiers offer the end-user an unseen cutting-edge design and ease-of-use. The ground-breaking intuitive front panel is clear and easy to use without any unnecessary bells and whistles.

The refreshing rear panel will give every installer an instant gratification due to the logical design. Together with an unprecedented connectivity and immaculate sound performance these reliable mixing amplifiers will conquer the fixed-install audio market.

FEATURES

- End-user friendly intuitive controls, clear and logic user interface for every end-user.
- Installer-friendly connectivity due to obvious and logic design.
- Smart left-to-right 4-level priority for audio routing.
- Unseen cutting-edge, modern and durable design.
- Universal and consistent user interface and rear panel for all models.
- Dimensions: 2U, 88 (h) x 483 (w) x 320 (d) mm.

INPUTS

- 2 mono balanced mic / line inputs.
- 4 music inputs, stereo line, mono summed.
- Emergency input.
- Mono balanced paging mic input.
- Compatible with the Apart all-call dynamic paging microphone MICPAT-D (See page 130)
- Connect a music source and/or microphone via a mic/line input with phantom power and adjust the volume via the Apart (D-)ALINP (See page 141).

OUTPUTS

- RMS output power
  - · MA120:   120 watts @ 70 / 100 volts or
                  150 watts @ 4 ohms.
  - · MA240:   240 watts @ 70 / 100 volts or
                  280 watts @ 4 ohms.
- The mono record output can be used for independent volume zones or recording.
- The mono pre-amp output can be used for linked volume zones.
- Priority output (24VDC) on Euroblock.

FRONT PANEL

Source select buttons

Toggle between inputs 1 to 4, or switch off the selected input by pressing the button that is lit. You can only select one input at a time.

Input labeling

Pre-defined and blank input labels are supplied in the box to guide every user to the right source in the blink of an eye.

Mic A and mic B buttons

The clearly illuminated microphone select buttons intuitively guide you to their corresponding volume controls.

System indications

5 on-board system indicators constantly reporting on the status of the mixing amplifier. (Protect, emergency, paging, vox mic A and output VU meter).

REAR PANEL

priority levels

PRIORITY LEVELS

Priority 1: emergency input

· Triggered by contact closure or vox level (vox level can be switched off).
· Overrules all other priority levels (inputs).
· Balanced line input.
· Volume control (direct to amplifier) with clip LED indication.

Priority 2: paging mic input

· Triggered by contact closure.
· Mono balanced mic / line input.
· Mic / line switch: mic with high-pass speech filter.
· Stereo to mono (sum) line input.
· Input gain control (+/- 15 dB) with clip LED indication and volume control.
· Chime with volume control and test.

Priority 3: mic A input

· Mono balanced mic / line input with dual EQ.
· 48 volt phantom power.
· Mic / line switch: mic with high-pass speech filter.
· Stereo to mono (sum) line input.
· Pre-amplifier gain (+/- 15 dB) with clip LED indication.
· Vox level: talk-over (-30 db) activation threshold (vox level can be switched off).

Priority 4: mic B input

· Mono balanced mic / line input.
· 48 volt phantom power.
· Stereo to mono (sum) line input.
· Pre-amplifier gain (+/- 15 dB) with clip LED indication.
· Dual EQ control.

Priority 4: music inputs 1-4

· Stereo to mono (sum) line input.
· Pre-amplifier gain (+/- 15 dB) with clip LED indication.
· Dual EQ on music inputs.

Auto standby mode activates after 10 minutes without signal. It reduces the power consumption to 0.5 watts. Standby mode can be deactivated by pressing the standby, mic or source buttons. Applying audio to the selected input or an emergency / paging signal will have the same result. The rear standby switch enables or disables the auto standby mode.

MA30/60
BRING IT BACK TO BASICS

During the redefining process of the mixing amplifier one of the key-conclusions was to bring it back to basics and make it user-friendly. The cutting-edge Apart **MA30** and **MA60** have a highly intuitive user interface and ground breaking rear panel layout.

The volume control rotary is prominent, illuminated, bigger and put in the forefront while the mic volume control is smaller and recessed. The left-to-right priority and rear panel design makes it intuitive for installers. Due to this every end-user and installer will instantly see and understand how to operate or install these progressive mixing amplifiers.

(rear panels on page 173)

OPTIONAL **MA3060-19** MOUNTING KIT

19" mounting with one amplifier

9.5" mounting with one amplifier

19" mounting with 2 amplifiers

mount an amplifier under a shelf or counter

FEATURES

• End-user friendly intuitive controls, clear and logic user interface for every end-user.

• Installer-friendly connectivity due to logical design.

• Smart left-to-right 4-level priority for audio routing.

• Cutting-edge, modern and durable design.

• Universal and consistent user interface and rear panel for all models.

• Dimensions: 2U, 88 (h) x 240 (w) x 250 (d) mm.

INPUTS

• 1 mono balanced mic / line input.

• 2 music inputs, stereo line, mono summed.

• Emergency input.

• Mono balanced paging mic input.

• Compatible with the Apart all-call dynamic paging microphone MICPAT-D (See page 130)

• Connect a music source and/or microphone via a mic/line input with phantom power and adjust the volume via the Apart (D-)ALINP (See page 141).

OUTPUTS

• RMS output power
  · MA30:   30 watts @ 70 / 100 volts or 35 watts @ 4 ohms.
  · MA60:   60 watts @ 100 volts or 65 watts @ 4 ohms.

• Loudspeaker outputs on Euroblock with dual EQ.

• The mono pre-(amp) output can be used for linked volume zones.

• Priority output (24VDC) on Euroblock.

FRONT PANEL

Source select buttons

Toggle between inputs 1 to 2, or switch off the selected input by pressing the button that is lit. You can only select one input at a time.

Input labeling

Pre-defined and blank input labels are supplied in the box to guide every user to the right source in the blink of an eye.

Mic button

Intuitive microphone select button with corresponding volume control.

System indications

5 on-board system indicators constantly reporting on the status of the mixing amplifier.
(Signal / clip, protect, emergency, paging, vox mic)

REAR PANEL

priority levels

PRIORITY LEVELS

Priority 1: Emergency input

· Triggered by contact closure.
· Overrules all other priority levels (inputs).
· Balanced line input.
· Volume control (direct to amplifier) with clip LED indication.

Priority 2: paging mic input

· Triggered by contact closure.
· Mono balanced mic / line input.
· Input gain control (+/- 15 dB) with clip LED indication and volume control.
· Chime with volume control and test.

Priority 3: mic input

· Mono balanced mic / line input.
· 48 volt phantom power.
· Mic / line switch: mic with high-pass speech filter.
· Stereo to mono (sum) line input.
· Pre-amplifier gain (+/- 15 dB) with clip LED indication.
· Vox level: talk-over (-30 db) activation threshold (vox level can be switched off).

Priority 4: music inputs 1-2

· Stereo to mono (sum) line input.
· Pre-amplifier gain (+/- 15 dB) with clip LED indication.

MA3060-19 MOUNT KIT
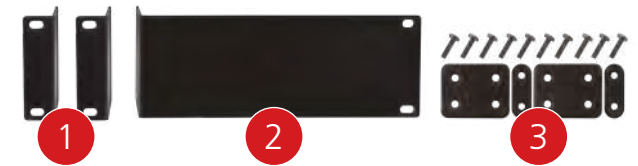
With the optional MA3060-16 mouning kit you can:
· mount the MA30 or MA60 in a 9.5 inch rack (1).
· mount the MA30 or MA60 in a 19 inch rack (1 & 2).
· combine 2 mixing amps into one 19" unit (1 & 3).
· mount a MA30 or MA60 under a shelf (1).

Standby mode activates after 10 minutes without signal. It reduces the power consumption to 0.5 watts. Standby mode can be deactivated by pressing the power, mic or source switches. Applying audio to the selected input or an emergency / paging signal will have the same result. The rear standby switch enables or disables the standby mode.

MA247

6-ZONE MIXING AMPLIFIER

The **MA247** is a 240 watts 6-zone 100 volt amplifier system that has been improved with 24 volt dedicated priority output per zone for more operating comfort. The unit can be used stand-alone or as the core of an expandable sound system.

The flagship model **MA247MR** has an integrated digital FM/AM tuner and a media player that allows playing MP3-songs from a USB memory stick or SD-card. These reliable features make the **MA247MR** your selective 100 volt paging amplifier system of choice!

(rear panel on page 174)

FEATURES

- Control the volume in different zones, have a different sound source on zone 1 and make selective paging in all zones.

- PA2240BP and MA247 allow your selective paging to come through in the selected zone, without interrupting the music in the other non-paged zones. There is nothing like that on the market!

- Available with built-in media player + tuner (MA247MR) or without any source (MA247).

- Dimensions: 2U, 88 (h) x 483 (w) x 360 (d) mm.

INPUTS

- 4 line inputs: 2 stereo and 2 mono.

- 1 paging mic input with gain, tone and volume control. Built-in adjustable chime.

- 3 mic / line inputs with gain, tone and volume control, phantom power can be activated via dip switch on the rear.

- Emergency line input with volume control on the rear panel.

- External paging amplifier input.

OUTPUTS

- RMS output power: 240 watts @ 100 volts.

- All 6 zones have an independent volume control.

- Balanced line output for zone 1 allows different sound source and volume control in zone 1. External power amplifier needed.

- Zones 2 - 3 - 4: 100 volt output.

- Zones 5 - 6: 70 volt output for more silent areas.

ACCESSORIES

MICPAT-6

- Selective 6-zone paging microphone.

- You can connect up to 5 pcs on one MA247(MR).

- Use the RJ45 connector for zone selection, Euroblock for microphone signal.

- See "MICPAT-6" on page 129 for more info.

MICPAT-2

- With the use of MICPAT2, MA247(MR) allows you to merge zones into 2 major paging groups.

- "MICPAT-2" on page 129 for more info.

ALINP | D-ALINP

- Active local input panel amplifies and mixes your local mic / line input.

- Connect a music source and/or microphone via a mic / line input with phantom power and adjust the volume.

- See "(D-)ALINP" on page 141 for more info.

480 W 6-ZONE SYSTEM

- Selective paging without music interruption in non-paged zones.

- Radio "GAGA" in the warehouse, MP3 "SERIOUS" elsewhere.

Zone 1 - Warehouse: 240 watts / 100 volt

PA2240BP: 2 channels - 240 watts

zone 1   paging amp.

MICPAT-6

Zone 2 - Showroom: 80 watts / 100 volt

Zone 3 - Service area: 40 watts / 100 volt

Zone 4 - Office: 40 watts / 100 volt

Zone 5 - Reception: 20 watts / 70 volt

Zone 6 - Toilets: 6 watts / 70 volt
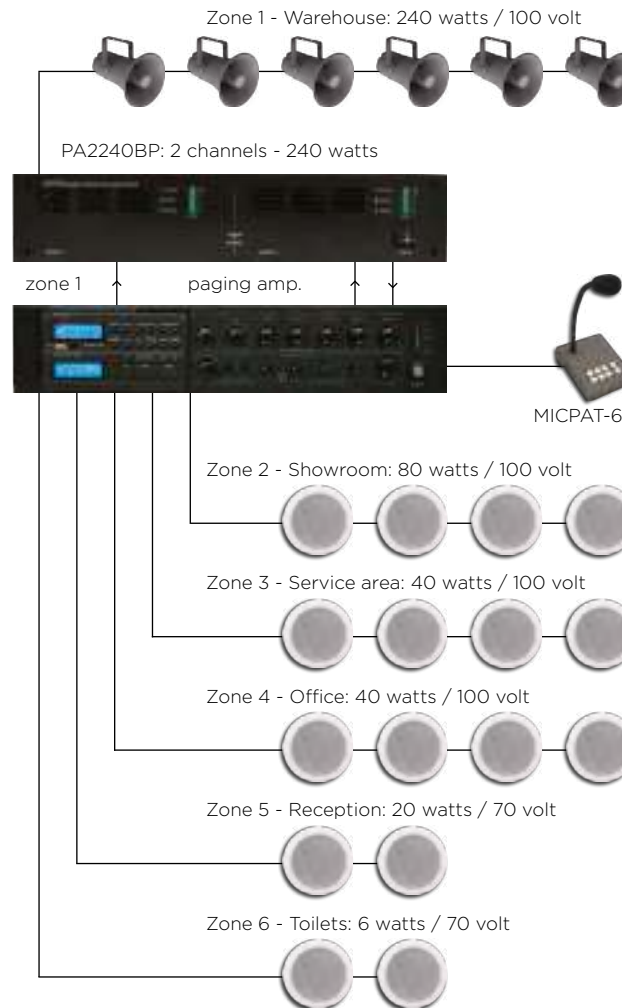
720 W 2-ZONE SYSTEM

- Selective paging in 2 assignable paging groups.

- Total control: 2 major zones, one with 5-sub zones.
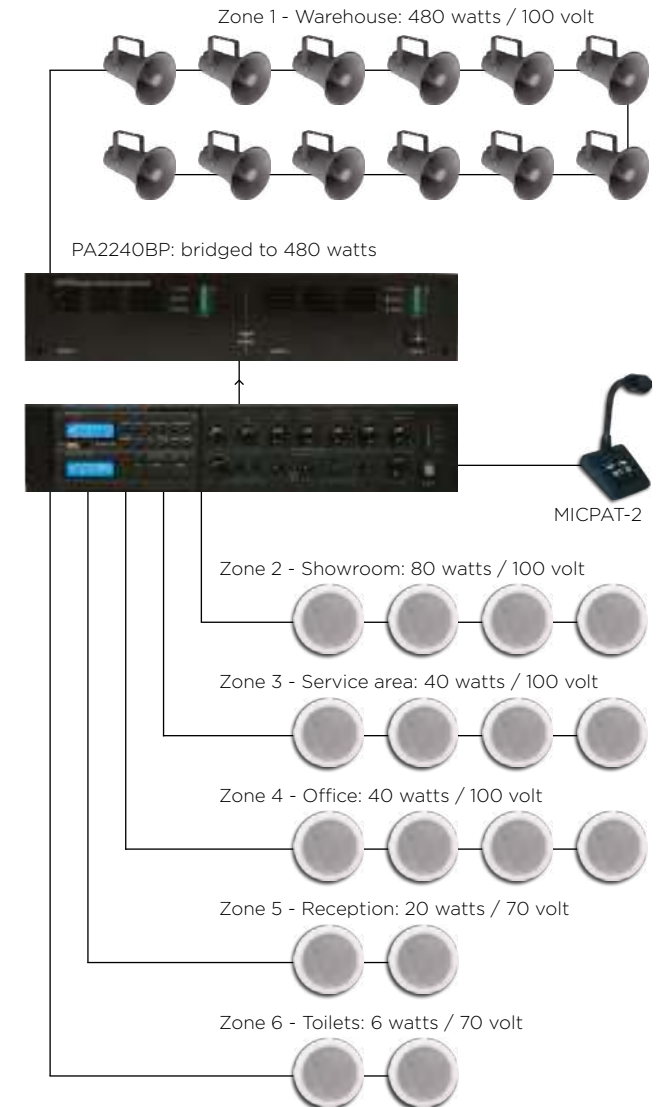
Zone 1 - Warehouse: 480 watts / 100 volt

PA2240BP: bridged to 480 watts

MICPAT-2

Zone 2 - Showroom: 80 watts / 100 volt

Zone 3 - Service area: 40 watts / 100 volt

Zone 4 - Office: 40 watts / 100 volt

Zone 5 - Reception: 20 watts / 70 volt

Zone 6 - Toilets: 6 watts / 70 volt

CLASSIC
PUBLIC ADDRESS
MIXING AMPLIFIER

MA125

The **MA125** is the industry standard. Via the music selector on the front you decide what experience your customers will have.

The microphone inputs can be mixed with the music or can have priority and mute the music. The included tone & volume control guarantee a perfect sound, even in more difficult acoustical conditions.

FEATURES

- The MA125 is the classic and universal 100 volt mixing amplifier.
- It is easy to use and allows you to mix your microphones with the selected music source.
- The unit allows you to have priority with your paging microphone as well as a seamless mix of your mic with your sound source.
- The unit operates with 230 VAC or 24 VDC (e.g. emergency power supply).
- Dimensions: 2U, 88 (h) x 483 (w) x 230 (d) mm.

INPUTS

- 3 line inputs: 2 stereo and 1 mono, selected via rotary switch on front panel.
- 1 mic input with adjustable vox mute: talking in the mic will mute the other inputs.
- The built-in adjustable chime is activated via contact closure. This also mutes other inputs.
- 2 mic inputs (connector on rear: Jack and XLR).
- Phantom power for mic inputs 1 to 4 via switch.
- 1 mic / line input (connector on rear panel: XLR or stereo RCA).

OUTPUTS

- RMS output power: 125 watts @ 100 volts.
- 70 volt, 50 volt and 8 ohm mono output also available.
- 24 volt priority output.
- Record line output on RCA.
- Pre-amp out, power amp in allows you to insert external signal processors or to use the MA125 as a pre amplifier in combination with an external power amplifier.

CLASSIC AND COMPACT MIXING AMPLIFIER

MA65

MA65 is probably the most compact and complete 65 watts 100 volt mixing amplifier.

No doubt this product can be the heart of many small installation projects where priority or mixed microphone calls and background music dispersion are needed.

On top of that this amplifier can also be used in mobile applications as the **MA65** functions with 24 volt (truck, autobus, emergency power supply).

(rear panel on page 175)

FEATURES

- Very compact 100 volt mixing amplifier allows priority or mixed microphone calls and background music dispersion.

- MA65 is the reliable solution for small and medium sized applications.

- This unit operates with 230 VAC. The MA65 can also be used with 24 VDC.

- Optional 19" mounting brackets available. (MA35-19)

- Dimensions: 2U, 88 (h) x 272 (w) x 286 (d) mm.

INPUTS

- Mic 1 can have priority over the other mic and line inputs. Priority and the adjustable chime level are activated via contact closure.

- Mic input 2 via XLR3 or Jack input on the rear.

- Mic / line input 3 via XLR3, Jack input or stereo RCA.

- Phantom power for the microphones can be activated via an internal jumper.

- Line input 4 via RCA on the rear.

OUTPUTS

- RMS output power:
  · 65 watts @ 100 volts.

- 70 volt and 8 ohm mono output also available.

- Record line output on RCA.

- Pre-amp out and power amp in allow you to insert external signal processors or to use the MA65 as a pre-amplifier in combination with an external power amplifier.

PROFESSIONAL
2-CHANNEL CLASS-D
POWER AMPLIFIER

REVAMP2150

The **REVAMP2150** is a convection cooled 2-channel amplifier that makes new technologies easy to use. The **REVAMP2150** incorporates a high efficient SMPS power supply and outputs with efficient class-D output topology.

The installer can choose for connection on balanced inputs on Euroblock or unbalanced input / link on cinch connectors. Suitable applications are regular stereo applications up to 2 mono zones or 1 bridged high-power channel thanks to its unbeatable channel separation ratio.

(rear panel on page 176)

FEATURES

- 2 x 165 watts of dynamic output power @ 4 ohms, bridgeable to 1 x 330 watts of output power @ 8 ohms.

- High channel separation for true 2 zone use.

- The integrated automatic protection system with smart use of a compressor/limiter topology will keep your audio output within safe limits.

- REVAMP2150 has an incredible high signal to noise ratio for use in every application.

- Detachable 19″ mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 239 (d) mm.

INPUTS

- 2 unbalanced inputs on RCA with pass through.

- 2 balanced inputs on Euroblock.

- Input level attenuators on all inputs.

- Individual channel mute buttons and versatile LED status for input overload indication on the front.

OUTPUTS

- Dynamic output power:
  · 2 x 165 watts @ 4 ohms.
  · 330 watts @ 8 ohms (bridged).

- Euroblock loudspeaker output connectors.

PROFESSIONAL
2-CHANNEL CLASS-D
POWER AMPLIFIER

REVAMP2250

REVAMP2250 is a professional bridgeable stereo 2-channel digital power amplifier with convectional cooling which has a very intuitive front display that shows what's going on with one blink of an eye.

To ease the installers life, the **REVAMP2250** has 6 presets to choose from with a simple push button at the back of the unit. In a couple of seconds the installer can bridge channels, apply high-pass filters to a channel and much more...
All DSP settings will be memorized and recalled when the unit is powered on!
Ease of use, reliability and big output power has never been as cleverly combined as in this **REVAMP2250** amplifier.

FEATURES

- 2 x 350 watts of dynamic output power @ 4 ohms, bridge-able to 1 x 700 watts of output power @ 8 ohms.

- The unit incorporates high reliability European designed class-D amplification and SMPS power supply technology.

- The automatic protection system with smart use of a compressor / limiter topology will keep your audio output within safe limits.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 235 (d) mm.

INPUTS

- 2 line inputs:
  · Balanced on Euroblock.
  · Unbalanced on RCA.

- Input level attenuators on all inputs.

- Input overload indication via LED on front and back for easy installation.

OUTPUTS

- Dynamic output power:
  · 2 x 350 watts @ 4 ohms.
  · 2 x 175 watts @ 8 ohms.
  · 1 x 700 watts @ 8 ohms (bridged).

- Euroblock loudspeaker output connectors.

- 4-pole Speakon® loudspeaker output connectors.

- Link outputs via RCA make it easy to connect the next amplifier.

PROFESSIONAL 2-CHANNEL POWER AMPLIFIER

REVAMP2600

REVAMP2600 is a professional stereo 2-channel Class-H power amplifier offering you an incredible dynamic sound. The built-in digital signal processor operates with one simple push of a button at the back of the unit to select one of the 10 DSP preset operation modes. No matter if you want to connect external 100V transformers to the **REVAMP2600**, you just want to connect top loudspeakers or use one of the channels to amplify your favourite subwoofer; the DSP presets allow you to tailor the **REVAMP2600** in order to get the most out of it in function of the loudspeakers connected. On the front display you can see the selected DSP preset, mute channels and you have clear LED indicators on the status of the **REVAMP2600**.

FEATURES

- 2 x 840 watts of dynamic output power @ 4 ohms.

- The automatic protection system with smart use of a compressor/limiter topology will keep your audio output within safe limits.

- In case of temperature overload, the automatic protection system will lower the output signal to prevent amplifier shutdown.

- Detachable 19″ mounting brackets included.

- Dimensions: 2U, 88 (h) x 483 (w) x 332 (d) mm.

INPUTS

- 2 line inputs:
  · Balanced on Euroblock.
  · Balanced on XLR.
  · Unbalanced on RCA.

- Input level attenuators on all inputs.

- Input overload indication via LED on front and back for easy installation.

OUTPUTS

- Dynamic output power:
  · 2 x 840 watts @ 4 ohms.
  · 2 x 420 watts @ 8 ohms.

- Euroblock loudspeaker output connectors.

- 4-pole Speakon® loudspeaker output connectors.

- Link outputs via RCA make it easy to connect the next amplifier.

PROFESSIONAL 4-CHANNEL CLASS-D POWER AMPLIFIER

REVAMP4100

REVAMP4100 is a professional 4-channel amplifier with high power Class-D power amplifier modules inside. The unit has extended speaker and amp protection circuits inside for DC protect, over current protect, over temperature protect and protection against input overload.

The **REVAMP4100** amplifier has 4 individual amplifier channels but can be bridged into 2 stereo channels or even a 2.1 sound system. Use two channels as subwoofer channels and drive your top loudspeakers with the two remaining channels.

FEATURES

- Can be used as 4 individual amplifier channels, 2 stereo channels or even create a 2.1 system.

- Each pair of outputs can be bridged to give you 2 x 225 watts of dynamic output power.

- The integrated automatic protection system keeps control and doesn't allow clipping or distortion.

- Convection cooled (no fan inside) means maintenance-free as the electronics stay dust-free.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 483 (w) x 44 (h) x 239 (d) mm.

INPUTS

- 4 unbalanced inputs on RCA with pass through.

- 4 balanced inputs on Euroblock.

- Input level attenuators on all inputs.

- Individual channel mute buttons and versatile LED status for input overload indication on the front and rear.

OUTPUTS

- Dynamic output power:
  · 4 x 110 watts @ 4 ohms.
  · 2 x 225 watts @ 8 ohms (bridged).

- Euroblock loudspeaker output connectors.

PROFESSIONAL
8-CHANNEL CLASS-D
POWER AMPLIFIER

REVAMP8250

This 8-channel bridgeable power amplifier is probably the most versatile class-D amplifier in the range. Combined with a pre-amplifier or matrix the **REVAMP8250** can be used to create 8 zones in mono, 4 zones in stereo, even 4 bridged mono or 2 bridged stereo systems can be created. The amplifier has an intelligent variable speed cooling fan built-in to keep the unit cool at all times.

When installing the **REVAMP8250,** a handy input clip LED indicator on the rear and front will guarantee a fast and hassle-free installation. Due to the amount of channels, limited amplifiers are needed in your project. This will save money and rack space, making it the ideal choice for your install.

FEATURES

- Can be used as 8 individual amplifier channels, 8 zones in mono, 4 zones in stereo

- Each pair of outputs can be bridged to give you 4 x 650 watts of dynamic output power.

- Reliability is guaranteed due to a wide variety of built-in protections, the unit has a temperature, short circuit, DC, input overload & over current protection that keeps control at all times

- Detachable 19" mounting brackets included.

- Dimensions: 2U, 88 (h) x 483 (w) x 330 (d) mm

INPUTS

- 8 unbalanced inputs on RCA with pass through.

- 8 balanced inputs on Euroblock.

- Input level attenuators on all inputs.

- Input overload indication via LED on front and rear for easy installation.

OUTPUTS

- Dynamic output power:
  · 8 x 350 watts @ 4 ohms.
  · 8 x 175 watts @ 8 ohms.
  · 4 x 650 watts @ 8 ohms (bridged).

- Euroblock loudspeaker output connectors.

PROFESSIONAL 16-CHANNEL CLASS-D POWER AMPLIFIER

REVAMP1680

REVAMP1680 is an ultra efficient Class-D 16-channel power amplifier. This 3 rack unit amplifier has a switching mode standby power supply and is extremely energy efficient. In standby mode, the **REVAMP1680** consumes less than 0.5 watts, all channels combined.

A big advantage of **REVAMP1680** are the 2 bus inputs with pass through. Ideal when you want to have the same audio signal in different output zones. Easy to select via a little switch at the back, Apart makes the installer's life so easy that he doesn't need to run multiple cables from one channel to another.

FEATURES

- Each pair of outputs can be bridged to give you 8 x 200 watts of dynamic output power @ 8 ohms.
- The standby power consumption is very low, less than 0.5 watts!
- Double analog toroïdal power supply.
- Switching mode standby power supply with multiple auto power on/off options: trigger, audio sense...
- Detachable 19" mounting brackets included.
- Dimensions: 3U, 132 (h) x 483 (w) x 441 (d) mm.

INPUTS

- 16 line inputs unbalanced on RCA.
- 2 stereo input buses unbalanced on RCA.
- The bus inputs allow you to assign each channel to bus 1, bus 2.
- 3-30 V AC/DC mini-jack trigger input for auto power on/off.

OUTPUTS

- Dynamic output power:
  · 16 x 100 watts @ 4 ohms.
  · 16 x 60 watts @ 8 ohms.
  · 8 x 200 watts @ 8 ohms (bridged).
- Output connections on Euroblock.
- External 3.5 mm mini-jack trigger output pass through.

Standby mode activates after 10 minutes without signal. It reduces the power consumption to 0.5 watts. Standby mode will be deactivated by applying an input signal. The rear standby switch enables or disables the standby mode.

PROFESSIONAL
2-CHANNEL CLASS-D
70/100V POWER AMPLIFIER

REVAMP2060T

The versatile **REVAMP2060T** is a professional 2-channel digital power amplifier with 2 x 60 watts output power @ 70/100 volts or @ 4 ohms, that can easily be bridged into a powerful 120 watts @ 70/100 volts or 8 ohms single amplifier. This class-D amplifier has a galvanic separated toroidal output transformer built in to avert external influences & disturbances. A fast installation tool on the rear is the clip LED indicator that can be used during the configuration of the input gain. The convection cooled **REVAMP2060T** has no fan inside which implies that the amplifier works silent and stays dust-free at all times. This maintenance-free feature together with the ease of installation via multiple input and link connection options makes the **REVAMP2060T** the preferred installer's choice. The slim 1U design without front control makes the **REVAMP2060T** a unique all-round amplifier unlike any other in the market.

FEATURES

- 2 x 60 watts output power @ 70/100 volts or 4 ohms.

- Reliability is guaranteed due to a wide variety of built-in protections, the unit has a temperature, short circuit, DC, input overload & over current protection built in that keeps control at all times.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 239 (d) mm.

INPUTS

- 2 line input:
  · Balanced on Euroblock.
  · Unbalanced on RCA connector.
  · Input level attenuator on input.

- Input overload indication via LED on front and back for easy installation.

- Dip switch controllable HP-filter at 250 Hz ideal for use with 100 volt horn speaker.

OUTPUTS

- RMS output power:
  · 2 x 60 watts @ 70/100 volts or @ 4 ohms.
  · 2 x 30 watts @ 8 ohms.
  · 120 watts @ 70/100 volts or 8 ohms (bridged).

- Euroblock speaker output connectors.

- Link output via RCA makes it easy to connect to the next amplifier.

PROFESSIONAL
SINGLE CHANNEL CLASS-D
70/100V POWER AMPLIFIER

REVAMP1120T

The **REVAMP1120T** is a single channel professional power amplifier with a unique and versatile Apart design. The **REVAMP1120T** is a class-D amplifier with a built- in galvanic separated toroidal output transformer free of external influences and disturbances. Convection-cooled and excluded from cooling fans this amplifier is reliable, maintenance-free, silent and dust-free. The rear clip LED indication on the input gain together with the ease of installation via multiple input and link connection options make the **REVAMP1120T** the preferred installer's choice. Completely built in a 1U chassis without front control the **REVAMP1120T** is bound to become a reference in the small and mid-sized fixed install audio market.

FEATURES

- 1 x 120 watts output power @ 70/100 volts or 8 ohms.

- Reliability is guaranteed due to a wide variety of built-in protections, the unit has a temperature, short circuit, DC, input overload & over current protection that keeps control at all times.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 239 (d) mm.

INPUTS

- 1 line input:
  · Balanced on Euroblock.
  · Unbalanced on RCA connector.
  · Input level attenuator on input.

- Input overload indication via LED on front and back for easy installation.

- Dip switch controllable HP-filter at 250 Hz ideal for use with 100 volt horn speaker.

OUTPUTS

- RMS output power:
  · 1 x 120 watts @ 70/100 volts or @ 4 ohms.
  · 1 x 60 watts @ 8 ohms.

- Euroblock speaker output connectors.

- Link output via RCA makes it easy to connect to the next amplifier.

PROFESSIONAL
2-CHANNEL CLASS-D
70/100V POWER AMPLIFIER

REVAMP2120T

Immaculate sound performance, extremely reliable, maintenance-free this is how we would describe our latest **REVAMP2120T**. This 2-channel digital power amplifier provides 2 x 120 watts output power @ 70/100 volts or @ 4 ohms, that can easily be bridged into a powerful 240 watts @ 70/100 volts or 8 ohm single channel amplifier. The **REVAMP2120T** is a convection cooled class-D amplifier without built-in fans which implies that the amplifier is completely noiseless and dust-free at all times. The ergonomic and efficient 1U design has a galvanic separated toroidal output transformer built in to avert external influences & disturbances. During the configuration of the input gain the rear clip LED indicator can be used for a fast and easy installation. The multiple inputs and link connectors make the **REVAMP2120T** a versatile and installer-friendly amplifier superiour to any other in the fixed install market.

FEATURES

- 2 x 120 watts output power @ 70/100 volts or 4 ohms.

- Reliability is guaranteed due to a wide variety of built-in protections, the unit has a temperature, short circuit, DC, input overload & over current protection that keeps control at all times.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 239 (d) mm.

INPUTS

- 2 line inputs:
  · Balanced on Euroblock.
  · Unbalanced on RCA connector.
  · Input level attenuator on input.

- Input overload indication via LED on front and back for easy installation.

- Dip switch controllable HP-filter at 250 Hz ideal for use with 100 volt horn speaker.

OUTPUTS

- RMS output power:
  · 2 x 120 watts @ 70/100 volts or @ 4 ohms.
  · 2 x 60 watts @ 8 ohms.
  · 240 watts @ 70/100 volts or @ 8 ohms (bridged).

- Euroblock speaker output connectors.

- Link output via RCA makes it easy to connect to the next amplifier.

PROFESSIONAL 4-CHANNEL CLASS-D 70/100V POWER AMPLIFIERS

REVAMP4120T / 4240T

REVAMP4120T and **REVAMP4240T** are professional 4-channel digital power amplifiers that can easily be bridged into more powerful 2-channel amps. This makes them ideal for multi-zone systems or more powerful stereo applications.

The units incorporate high reliability European designed amplification and power supply technology. Combined with the toroïdal 70/100 volt output transformers, these modules are a guarantee for ultra reliable and stable running power amplifiers. The very intuitive front display of these amplifiers shows what is going on in one blink of an eye. The option to use one or multiple channels in low impedance makes these amps very flexible.

FEATURES

- Each pair of outputs can be bridged to give you 2 x 240 watts (REVAMP4120T) or 2 x 480 watts (REVAMP4240T) of output power!

- The limiter inside keeps the output power within safe limits.

- The intelligent variable speed cooling fan will only be activated in harsh conditions (silent and maintenance-free).

- Detachable 19″ mounting brackets included.

- Dimensions: 2U, 88 (h) x 483 (w) x 332 (d) mm.

INPUTS

- 4 line inputs:
  · Balanced on Euroblock.
  · Unbalanced on RCA connectors.

- Input gain control per channel.

- Input overload indication via LED on front and back for easy installation.

- HP-filter per channel at 250 Hz activated via dip switch (ideal for use with 100 volt horn loudspeakers).

OUTPUTS

- RMS output power REVAMP4120T:
  · 4 x 120 watts @ 70/100 volts or @ 4 ohms.
  · 2 x 240 watts @ 70/100 volts or @ 8 ohms (bridged).

- RMS output power REVAMP4240T:
  · 4 x 240 watts @ 70/100 volts or @ 4 ohms.
  · 2 x 480 watts @ 70/100 volts or @ 8 ohms (bridged).

- Euroblock speaker output connectors.

- Link outputs via RCA make it easy to connect the next amplifier.

SINGLE CHANNEL CONSTANT VOLTAGE POWER AMPLIFIER

PA240P

The **PA240P** is a fully equipped constant voltage power amplifier that will meet all of your requirements.

Besides high reliability and the basic functions of a power amplifier the **PA240P** excels above similar products by the inclusion of its extra technical features and possibilities.

The **PA240P** comes with a removable metal protection cover so that unauthorized people cannot change the amplifier's volume, bass and treble tone controls on the front panel.

FEATURES

- Very reliable 70/100 volt power amplifier.

- The bass - treble tone control guarantees an excellent sound experience, even in tough acoustical conditions.

- Metal cover included to avoid unauthorized volume and tone control adjustment.

- The PA240P functions with both 230V and 24V DC for emergency power supply.

- Dimensions: 2U, 88 (h) x 483 (w) x 360 (d) mm.

INPUTS

- Program line input via balanced combo XLR, jack or Euroblock.

- Priority line input via balanced XLR, jack, combo or Euroblock with rear volume control.

- Activation of the priority input via contact closure.

OUTPUTS

- RMS output power:
  · 240 watts @ 100 volts or @ 4 ohms.

- 70 volt, 50 volt and mono 4 ohm output also available.

- 24V DC output when priority is activated allows you to switch the relays of local volume controls.

- Line link output via balanced XLR.

2-CHANNEL BRIDGEABLE CONSTANT VOLTAGE POWER AMPLIFIER

PA2240BP

The **PA2240BP** is a bridgeable and ultra-reliable 2-channel 100 volt power amplifier that can be used in all of your big 70/100 volt projects. It can be configured as a 2-channel amplifier (2 x 240 watts) or it can be bridged into a 1 x 480 watt power amplifier. Both channels of the **PA2240BP** have bass and treble tone control. The emergency input overrides the program/music input when activated via contact closure.

As reliability is extremely important in the install and contractor audio market, this multifunctional **PA2240BP** will definitely be your favorite constant voltage power amplifier.

FEATURES

- Very reliable 2-channel 70/100 volt power amplifier.

- The bass - treble tone control guarantees an excellent sound experience, even in tough acoustical conditions.

- Bridge mode to have a single channel driving a big group of loudspeakers up to 480 watts.

- The PA2240BP functions with both 230V and 24V DC for emergency power supply.

- Dimensions: 2U, 88 (h) x 483 (w) x 412 (d) mm.

INPUTS

- 2 program line inputs via Euroblock with rear volume control.

- 2 priority line inputs via Euroblock with rear volume control.

- Activation of the priority input via contact closure per channel.

OUTPUTS

- RMS output power:
  · 2 x 240 watts @ 100 volts or @ 4 ohms.
  · 1 x 480 watts @ 100 volts or @ 8 ohms (bridged).

- Bridge mode activated via switch at the rear panel.

- 70 volt, 50 volt, 35 volt and 4 ohm output also available.

- 24V DC output per channel when priority is activated allows you to switch the relays of local volume controls.

CONVECTION COOLED 2-CHANNEL POWER AMPLIFIER

CHAMP-2

CHAMP-2 offers unequalled pure music quality with high power and a dynamic punch. Because this stereo amplifier is a part of the revolutionary **CHAMP Series** of convection cooled power amplifiers the unit is maintenance free. The **CHAMP-2** has no fan inside which means the electronics are very silent.

The unit has a unique self-supporting aluminium chassis and two strong detachable 19″ brackets are included as well. The **CHAMP-2** is affordable and will bring a dynamic powerful sound that is unrivalled in its category!

FEATURES

- This robust 2-channel power amplifier brings you a loud music performance without sounding hard.
- The built-in APC technology keeps control and doesn't allow the amplifier to clip or distort.
- Convection cooled (no fan inside) means maintenance-free as the electronics stay dust-free.
- Detachable 19″ mounting brackets included.
- Dimensions: 1U, 44 (h) x 483 (w) x 360 (d) mm.

INPUTS

- Unbalanced stereo line input via RCA.
- Balanced stereo line input via XLR.

OUTPUTS

- Dynamic output power:
  · 2 x 450 watts @ 2.7 ohms
  · 2 x 350 watts @ 4 ohms
  · 2 x 200 watts @ 8 ohms.
  (As the amp accepts 2.7 ohm loads, you can connect up to 3 pieces of 8 ohm loudspeaker per channel).
- Dynamic output power in bridge mode via switch at the rear: 750 watts @ 8 ohms.
- Link outputs to another power amplifier:
  · Unbalanced stereo link line output via RCA.
  · Balanced stereo link line output via XLR.

CONVECTION COOLED 4-CHANNEL POWER AMPLIFIER

CHAMP-4

CHAMP-4 is a part of the revolutionary **CHAMP Series** of convection cooled power amplifiers which means it is very silent and maintenance-free as no dust gets inside. The bridging possibilities and the built-in crossover in this 4-channel amplifier allow you to create sound systems with a superior sound result. The striking design and technical innovations of the **CHAMP Series** have set a new industry standard... Use two channels as one subwoofer channel and drive your top loudspeakers with the two remaining channels and experience the pure musical power of **CHAMP-4**! It is just one of the ways in which you can use this quad amplifier.

FEATURES

- You can use the robust and versatile CHAMP-4 as 4 individual amplifier channels, 2 stereo channels or even create a 2.1 system.

- The built-in APC technology keeps control and doesn't allow the amplifier to clip or distort.

- Convection cooled (no fan inside) means maintenance-free as the electronics stay dust-free.

- Detachable 19" mounting brackets included.

- Dimensions: 1U, 44 (h) x 483 (w) x 360 (d) mm.

INPUTS

- Unbalanced line inputs via RCA.

- Amplifier mode setting on the rear panel:
  · 2 stereo channels.
  · 2 channels mixed to mono.
  · 2 channels bridged.
  · 1 stereo channel + 1 channel bridged.

OUTPUTS

- Dynamic output power:
  · 4 x 125 watts @ 4 ohms.
  · 4 x 75 watts @ 8 ohms.
  · 2 x 230 watts @ 8 ohms (bridged).

- Low-cut filter for subwoofer and high-pass filter for top cabinets via switch at the back.

- Link outputs via RCA makes it easy to connect to the next amplifier.

CONVECTION COOLED 3-CHANNEL CLASS-D POWER AMPLIFIER

CHAMP-3D

The **CHAMP-3D** is a 3-channel class-D amplifier with all the essential features to meet your customer's expectations.
This versatile power amplifier is ideal for medium to mid-sized applications (up to 2100 watts).

Thanks to the built-in loudspeaker wizard the **CHAMP-3D** is easily configured the right way. The European made amplifier modules inside guarantee a warm and dynamic high-end sound and the fanless design of this convection cooled amplifier ensures a maintenance free **CHAMP-3D**.

FEATURES

- Convection cooled 3-channel class-D amplifier
  · No fan inside means silent and maintenance free as the electronics stay dust-free.

- European class-D amplifier modules
  · Combine the advantages of digital amplification (low heat, low power consumption, low weight) with the warm and dynamic sound of a traditional high-end amplifier.

- Toroïdal transformer power supply with oversized capacitors:
  · Guarantees a dynamic sound and high reliability.

- Built-in loudspeaker wizard:
  · Make your life easy during setup: select the Apart top cabinets and subwoofers you are using and the ideal DSP setting will be applied automatically. The best protection for your sound system and a guarantee for an optimal sound!

- Built-in high-class DSP processor.

- Multiple user permission levels avoid tampering by unauthorized or unqualified people; another guarantee for a reliable and ideal sounding sound system:

  · Fully locked: no control by the end user.
  · Volume only.
  · Full access, incl. DSP settings.

FACTS & FIGURES

- Dynamic output power:
  - · L+R top channel: 2 x 530 watts @ 2.7 ohms.
  - · Subwoofer: 1350 watts @ 2 ohms.
- Stereo inputs:
  - · Balanced female XLR, linked in parallel with
  - · Balanced male XLR, to link with next amplifier.
  - · Balanced Euroblock / phoenix connector.
- Loudspeaker outputs Speakon® connectors.
- External wired volume control on Euroblock.
- RS232 control via SUBD9 connector.
- Dimensions: 2U, 88 (h) x 483 (w) x 380 (d) mm.
- Weight: 16 kg.

FULL PROTECTION

- A correct installation with the loudspeaker wizard guarantees a fully protected system: no clipping.
- The pre-set maximum level cannot be exceeded: the limiter-leveler protects the bar's license.
- Harmful clipped input signals result in overload protection.

DIGITAL DSP

- 4-band full parametric EQ and crossover.
- Defeatable automatic loudness.
- Delay: time alignment of the top loudspeakers.
- Compressor: increases musical density.
- Limiter - leveler protects your loudspeakers and the bar's license.
- Subsonic filter: filters harmful frequencies to protect the amplifier and loudspeakers.

FANLESS DESIGN
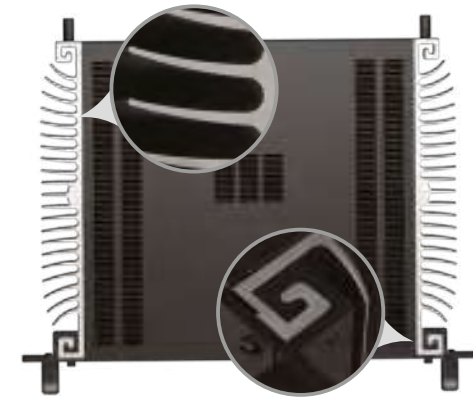
- Unique Apart heatsink design.
- Electronics stay dust-free.
- No noisy fan.
- No maintenance or cleaning.
- 24 / 7 operation guaranteed.
- Strong and detachable 19" bracket system.

EUROPEAN DIGITAL AMP TOPOLOGY INSIDE

- The unique technology and design guarantees a high damping factor, resulting in a real dynamic, warm and high end sound.
- Without compromising on the advantages like low power consumption, low heat dissipation, low weight and a fanless design, we have tackled all known disadvantages of digital amplification.

ACCESSORIES

N-VOL10K-W

- Optionally wired external Niko volume control available.
  (See "N-VOL10K" on page 135 for more info)

MUSIC SOURCES

ALL-IN-ONE RELIABLE MUSIC PLAYER

PMR4000RMKIII

PMR4000RMKIII is a multi-source music player that makes your life easy. The integrated FM RDS / DAB / DAB+ tuner, internet radio, Spotify Connect, UPnP and USB media player allows you to select your favourite music sources. You can play any file (MP3, WMA, FLAC, WAV) located on any of your networked devices.

Thanks to the free downloadable app, UNDOK from Frontier Silicon, the **PMR4000RMKIII** can be controlled via your iPad, iPhone, iPod Touch or any Android device. This app connects automatically with your **PMR4000RMKIII** and allows full control of the device including source and media selection.

(rear panel on page 184)

FEATURES

- The unit can be controlled via the front panel and its user-friendly menu structure, the Frontier app to control the PMR4000RMKIII via your smart phone or tablet and an IR remote control.

- Unlike conventional CD and DVD players, the PMR4000RMKIII has no moving parts inside which makes it ultra-reliable.

- The infrared remote control and detachable 19″ brackets are included.

- Available media
  · UPnP: play music from your local network, whether it is stored on a pc, laptop or NAS drive.
  · USB: plug in the stick on the front and simply push the media player button.
  · Internet radio: enjoy your favourite music station, wherever in the world it may be located.
  · FM RDS / DAB / DAB+ radio: connect your distribution cable or use the wire antenna to listen to your music station.
  · Spotify Connect: stream your favourite music through the PMR4000RMKIII, and control by the Spotify app on your computer, smartphone, or tablet.

- In case you want to enjoy internet radio, you can hardwire the PMR4000RMKIII to the internet or you can connect via the built-in 2.4G/5G Wi-Fi.

- Following audio formats are supported: WMA / MP3 / FLAC / WAV (ID3 tags support).

- An analog and optical digital output are available and the output level can be adjusted.

- Dimensions: 1U, 44 (h) x 483 (w) x 325 (d) mm.

VERSATILE MEDIA PLAYER WITH BLUETOOTH

PCR3000RMKIII

Apart brings one of the most versatile and complete media players on the market that will finally allow you to ban cheap consumer hi-fi from your projects. The **PCR3000RMKIII** allows you to play or stream premium quality music from any Bluetooth device, CD, USB-stick or SD-card. The DAB plus – RDS FM tuner inside has the newest technology that guarantees perfect radio reception, both with DAB and FM.

The **PCR3000RMKIII** will always start playing automatically in Auto Play mode when it's powered on. In Cue mode the unit will wait for a play command after powered up, or when it's in stop or pause mode. This function allows a track to be selected without starting to play automatically.

(optional PCD-REM remote control available)

(rear panel on page 185)

FEATURES

- The PCR3000RMKIII plays music from your DVD, audio CD, MP3 CD, USB or SD-card and allows you to stream via Bluetooth. To avoid people from taking the memory stick or SD-card out, a second input on the back of the device is available.

- Via the RS232 serial port you can control or integrate the PCR3000RMKIII into your control solution.

- Multiple outputs are available:
  · A tuner output on RCA with output level control.
  · An output for the CD/USB/SD also on RCA with output level control.
  · The combi output automatically switches to the tuner output when the playback from the CD/USB or SD-card has stopped. Hence continuous music playback is guaranteed.
  · A coaxial and optical digital output.

- Auto Play or Cue mode available via the switch at the back of the unit.

- The maximum analog output level can be preset at the back to match the output level of other audio sources.

- An infrared handheld remote control and detachable 19″ brackets are included.

- Via the Update connector on the back you also have a video output available when DVD's are being played. The smartest and most cost effective 19" DVD player on the market! (Optional PCD-REM IR remote control is needed)

- To combine the use of cable distribution for your FM tuner and the aerial DAB antenna, you can use the optional antenna splitter DAB-FM. (See"DAB-FM" on page 159)

- Dimensions: 1U, 44 (h) x 483 (w) x 280 (d) mm

VERSATILE
CD & MP3
MUSIC SOURCE

PC1000RMKII

Although the CD is not the most important music source anymore, in lots of applications a CD-player is indispensable. Deejays often play music that is stored on their laptop, but what do you do on moments when there is no dj? Many bars still have a huge CD collection and it would be regrettable to leave this all unused. The **PC1000RMKII** plays music from your DVD, audio CD and MP3 CD.

On top of that music playback from an SD-card or USB memory stick is also possible. We highly recommend **PC1000RMKII** music source for professional use in your fixed install audio projects.

(optional PCD-REM remote control available)

FEATURES

- Via the operation mode switch at the back you can select Auto Play and the unit will always start playing automatically when it's powered on. In Cue mode the unit will wait for a play command after powered up, or when it's in stop or pause mode. This function allows a track to be selected without starting to play automatically.

- The PC1000RMKII plays music from your DVD, audio CD and MP3 CD. On top of that music playback from an SD-card or USB memory stick is also possible. To avoid people from taking the memory stick or SD-card out, a second input on the back of the device is available.

- Via the RS232 serial port you can control the PC1000RMKII or integrate it into your control solution.

- The maximum analog output level can be preset at the back of the PC1000RMKII to match the output level of other audio sources, such as tuners and other media players.

- Multiple outputs are available:
  · A stereo XLR balanced output to connect the unit to professional mixing desks or when long signal cables are being used.

- · The standard RCA stereo connectors.
  · A coaxial and optical digital output.

- An infrared handheld remote control and detachable 19" brackets are included.

- Via the Update connector on the back you also have a video output available when DVD's are being played. The smartest and most cost effective 19" DVD player on the market! (Optional PCD-REM IR remote control is needed)

- Dimensions: 1U, 44 (h) x 483 (w) x 280 (d) mm.

VERSATILE
4 x FM RDS TUNER
MUSIC SOURCE

PR4000R

Apart's **PR4000R** music source marks a new era in tuner functionality. More and more multiple radio sources are required in multi zone, multi-source systems. With the **PR4000R** you have independent radio tuners available; all built into a 1U 19″ unit. Ten presets per tuner allow you to store all your favorite radio stations. Highly recommended for use with AUDIOCONTROL12.8, this music source is loaded with all the professional features. The unit is designed for 24/7 reliability which is an absolute need for professional installation projects. The **PR4000R** has RDS data available via the RS232 serial port, which can be a huge added value in case of system integration.

FEATURES

- Multiple radio sources are often required in multi-zone systems. With the PR4000R you have 4 independent tuners available, all built into a 1 unit 19″ housing.

- The FM tuner has the RDS data available on the display. Via the RS232 interface this data can also be extracted so that you can show it on your touch panel displays in your integrated solution.

- When connected to a cable distribution network, systems often facing hum and buzz. Not with the PR4000R as it has a galvanically separated antenna input.

- The 10 presets per tuner allow you to store all your favourite radio stations.

- An output attenuator per tuner on the back of the unit allows you to adjust the output signal so that it is in line with your other sound sources.

- In order to make it possible to integrate the unit into your AV system, the PR4000R can be controlled via RS232.

- An infrared handheld remote control, FM antenna and detachable 19″ brackets are included.

- Dimensions: 1U, 44 (h) x 483 (w) x 280 (d) mm.

VERSATILE
AM / FM RDS TUNER
MUSIC SOURCE

PR1000R

Background music is essential for almost every shop, bar or restaurant. A music source that you can rely on each day is a must! More and more the tuner becomes an integrated part of receiver amps, but still there is a big need in the market for a stand-alone professional tuner. The Apart **PR1000R** is a professional 19″ AM/FM RDS tuner that is controllable via RS232 or infrared and will ensure your customers to be satisfied with their music installation. With this **PR1000R** music source you certainly can convince your customers to finally choose a professional system and avoid the use of consumer hi-fi products in a professional application.

FEATURES

- More and more the tuner becomes an integrated part of receiver amps, but till there is a big need in the market for stand-alone professional unit and we are there to fulfill your need.

- In order to make it possible to integrate the unit into your AV system, the PR1000R can be controlled via RS232.

- The AM/FM tuner has the RDS data available on the display. Via the RS232 interface this data can also be extracted so that you can show it on your touch panel displays in your integrated solution.

- When connected to a cable distribution network, systems often experience hum and buzz. Not with the PR1000R as it has a galvanically separated antenna input.

- 39 presets allow you to store all your favorite radio stations.

- The output attenuator on the back of the unit allows you to adjust the output signal so that it is in line with your other sound sources.

- An infrared handheld remote control, FM antenna and detachable 19″ brackets are included.

- Dimensions: 1U, 44 (h) x 483 (w) x 280 (d) mm.

CONTROL TOOLS

INFRARED & SERIAL CONTROL INTEGRATION

NETKIT

NETKIT-IR and **NETKIT-RS** make it possible to design and integrate a low-cost custom control system for Apart products and other devices with infrared or serial control possibilities. **NETKIT-IR** and **NETKIT-RS** allow easy integration with PC, Mac, iPhone/iPad and Android devices via freely available software applications.

Apart have developed the Command Fusion GUI Designer library files for all controllable Apart products!

Now you can seamlessly connect a laptop and control any serial (**NETKIT-RS**) or infrared (**NETKIT-IR**) device over a LAN-network and the internet.

NETKIT-RS IN- & OUTPUTS

- RJ45 for cable connection to local area network.

- Male DB9 connector for RS232 connection to the device to be controlled.

- Power connection 5-16 V (power supply included).

- Many Apart products can be controlled by NETKIT-RS via their RS232 control interface, including SDQ5PIR, PM1112 (with PM1122-INT), CONCEPT1(T), CHAMP-3D, ZONE4, AUDIOCONTROL12.8, PR4000R, PR1000R, PCR3000RMKIII and PC1000RMKII.

SHARED FEATURES

- Allows control of a device from a network control surface.

- Free PC software to design custom user interface.

- Control interface possible on iOS and Android devices.

- Integrated web server for configuration.

- Downloadable "Netkit Help" and "Netkit Learn" software for learning IR remote commands.

- Dimensions: 31 (h) x 82 (w) x 57 (d) mm.

NETKIT-IR IN- & OUTPUTS

- RJ45 for cable connection to local area network.

- Connection to 3 x IR emitters (supplied) for connection to devices to be controlled.

- Power connection 5 - 16 V (power supply included).

- Many Apart products can be controlled by NETKIT-IR via their infra red control interface, including SDQ5PIR, CONCEPT1(T), PMR4000RMKIII, PR4000R, PR1000R, PCR3000RMKIII, PC1000RMKII.

- IR receiver built-in to learn IR remote commands.

SERIAL OR INFRARED CONTROL POSSIBILITIES

Control your devices with a smartphone, tablet or computer over WiFi or internet.

Integrate devices via RS232 through NETKIT-RS into your network.

AUDIOCONTROL12.8

NETKIT-RS

Integrate devices via infrared through NETKIT-IR into your network.

PC1000RMKII

CONCEPT1(T)

NETKIT-IR

Integrate devices via an RJ45 cable into your network.

AUDIOSYSTEM8.8

PMR4000RMKIII
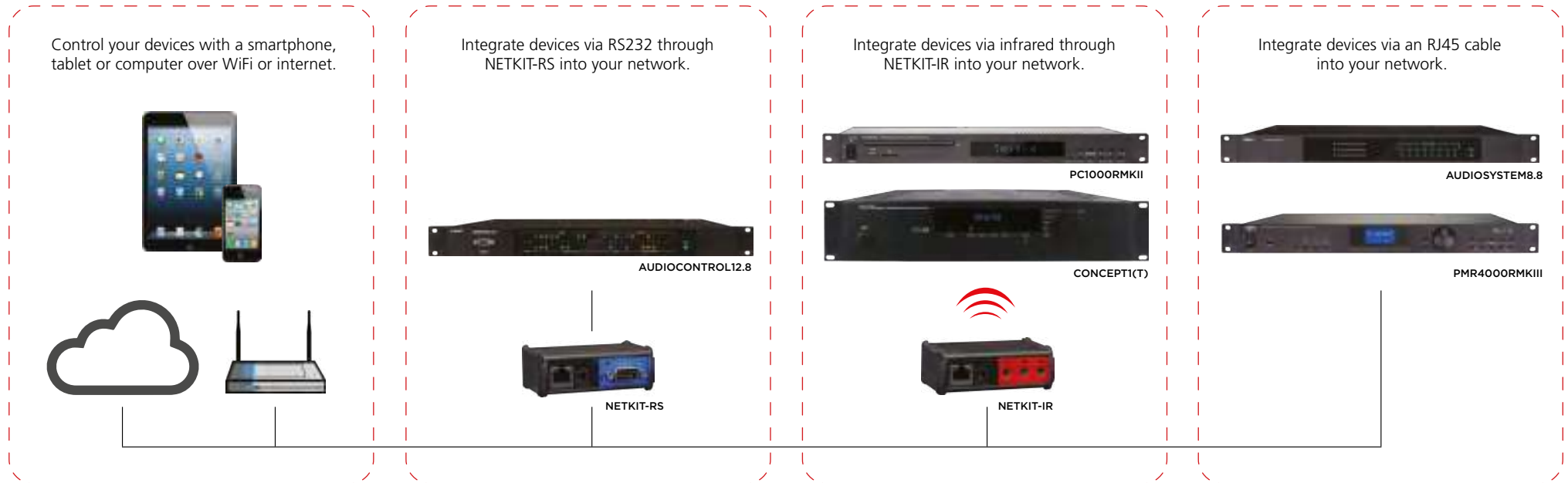
CHARACTERISTICS

- Netkit allows a custom user interface to be designed and uploaded to an iPad or similar device.
- Any device with RS232 or IR control can be included in the system.
- Apart have developed the Command Fusion GUI Designer library files for all controllable Apart products, this is available on request.

GUI DESIGNER

iRule

COMMAND FUSION

iridium

iDEVICE CONTROL

- NETKIT-IR and NETKIT-RS allow easy integration with iPhone, iPad and Android devices via freely available software applications.

DIMIC1

MICPAT-2

MICPAT-6

MDS.CHAIR

DIMIC12

WHICH MICROPHONES TO CHOOSE IN THIS APPLICATION?

MICROPHONES

Biamp solutions used in following reference
Spar Supermarket - Deurne, Belgium

SELECTIVE MICROPHONES

Selective paging microphones have the possibility to communicate with different zones in your office. Our range contains models for use up to 12 zones (DIMIC12). When the DIMIC12 is used with an AUDIOCONTROL12.8 you can allocate buttons to perform actions like opening a door, controlling a sound source, ring a bell or even start a series of commands.
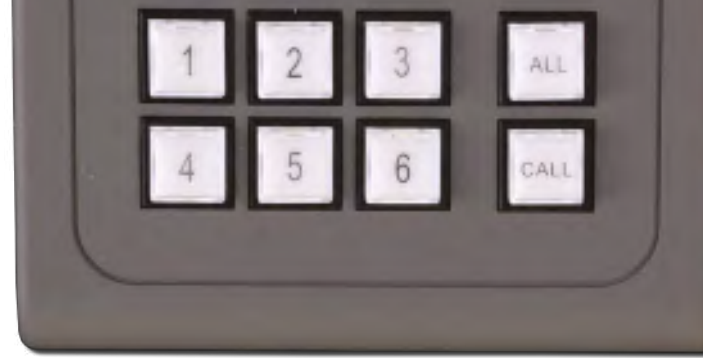
MULTI-ZONE DIGITAL PAGING & CONTROL STATION

DIMIC12

- Digital paging and control station for use with AUDIOCONTROL12.8.

- Easy to configure via the host's graphical installer interface.

- 12 free configurable selection buttons with status LEDs.

- Speech-optimized sound processing.

- Push-to-talk button and multicolor paging status LED.

- Flexible microphone gooseneck.

- Expandable up to 96 zones or presets.

- Dedicated all zone call button.

- Dedicated selected zone call button.

PAGING AND CONTROL STATION EXPANDER

DIMIC12S

- Digital paging station expander for connection with DIMIC12.

- Easy to configure via the host's graphical installer interface.

- 12 selection buttons and status LEDs.

2-ZONE PAGING STATION

MICPAT-2

- For use with CONCEPT1(T), PREZONE2 and MA247(MR).
- Robust 2-zone table type, dynamic microphone.
- Push-to-talk button per zone with LED indication.
- No batteries, no power supply required.
- With 5 m cable, open wire.

4-ZONE PAGING STATION

MICPAT-4

- 4-zone active paging station with directional condensor microphone for use with ZONE4.
- Selection button per zone with LED-indicator.
- Push-to-talk with green/red LED busy indicator.
- With 5 m cable and CAT5 RJ45 connector provided.
- No batteries or power supply required. (power via cable from ZONE4)

SELECTIVE 6-ZONE PAGING STATION

MICPAT-6

- Compact 6-zone table type directional condensor microphone for use with MA247(MR).
- Selection button per zone with LED-indicator.
- Push-to-talk with green/red LED busy indicator.
- With 5 m cable, CAT5 RJ45 connector and line cable provided.
- No batteries or power supply required. (Power via cable from MA247(MR))

ALL-CALL MICROPHONES

In most applications an all call microphone is indispensable to guarantee a good communication. Apart has different table type (DIMIC1 and MICPAT-D) microphones especially designed to function in a plug and play way with our electronics. No matter which type you choose, your message will be heard loud and clear throughout the entire system.

ALL CALL DIGITAL PAGING STATION

DIMIC1

- Digital Paging Station for use with AUDIOCONTROL12.8.
- Easy to configure via the host's graphical installer interface.
- All zone selection button.
- Speech-optimized sound processing.
- Push-to-talk button and multicolor paging status LED.
- Flexible microphone gooseneck.

ALL CALL DYNAMIC PAGING MICROPHONE

MICPAT-D

- Paging microphone for use with Apart MA Series, AUDIOSYSTEM8.8 and CONCEPT1(T).
- Clear voice, no feedback.
- Toggle switch: Talk - Off - Continuous talk.
- No batteries, no power supply required.
- With 3 m cable and DIN5 connector.

DISCUSSION SYSTEMS

MICROPHONE DISCUSSION SYSTEM

MDS

The Apart Microphone Discussion System is a highly flexible small to medium size tabletop discussion system. This easy to set up and easy- to-use audio system is the perfect solution for meeting rooms, board rooms, presentation purposes and panel discussions. This discussion system consists of a chairman unit (**MDS.CHAIR**) and up to 19 delegate units (**MDS.DEL**). The connection interface (**MDS.INT**) is located at the beginning of the microphone chain. Combined with one of the pre-amplifiers or REVAMP power amplifiers and with for example the Apart CMX20T or MASK4 loudspeakers, you will have astonishing voice clarity.

MDS.CHAIR & MDS.DEL

- Unidirectional condenser type microphone.

- Easy set-up using standard CAT5 cables for linking up to 20 units in a daisy chain. The system accepts one chairman (MDS.CHAIR) and up to 19 delegate units (MDS.DEL).

- MDS.CHAIR has a talk button & mute button. When the mute button is pressed, only the chairman is active and all delegates are muted and deactivated. MDS.DEL has a talk button to activate the microphone.

- The power supply unit can be connected anywhere in the chain (preferably in the middle of the system when more than 10 units are connected).

MDS.INT

- Connection interface unit.

- The connection interface is located at the beginning of the microphone chain.

- Unbalanced jack connector 6.3 mm for connection with an amplifier or a pre-amplifier.

N-VOLST-W

E-VOL20

ZONE4R

19-VOL660
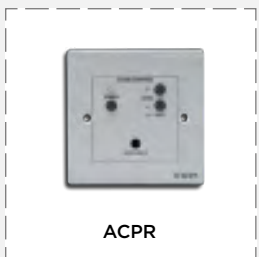
ACPR

WHICH WALL CONTROLS TO CHOOSE IN THIS APPLICATION?

WALL & VOLUME CONTROLS

Biamp solutions used in following reference
Meeting Room - Diegem, Belgium

NIKO CONTROLS

The NIKO Series of volume controls has a timeless and classy design to fit in your home or business interior. The volume controls can be used for mono or stereo sound.

The N-VOL10K volume control works perfectly together with the CHAMP-3D, AUDIOCONTROL12.8 and other products requiring a simple potentiometer control.
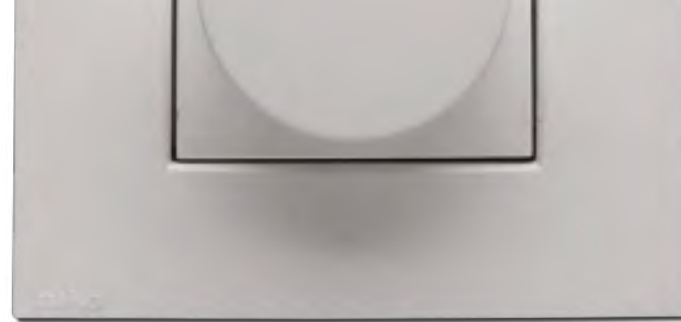
STEREO, 2 X 20 WATT VOLUME CONTROL

N-VOLST-W

- Stereo (4, 8 or 16 ohms).
- Power: 2 x 20 watts.
- Steps: 0 + 5.
- Protected against overload.
- Dimensions: 90 (h) x 90 (w) x 85 (d) mm.
- Genuine Niko parts and compatibility.
- Color: intense-white.

100 VOLT, 30 WATT VOLUME CONTROL

N-VOL30-W

- 100 volt.
- Power: 30 watts.
- Steps: 0 + 10.
- Protected against overload.
- 24 volt priority sets volume on max.
- Dimensions: 90 (h) x 90 (w) x 85 (d) mm.
- Genuine Niko parts and compatibility.
- Color: intense-white.

DECORA CONTROLS

10 KOHM VOLUME CONTROL

N-VOL10K-W

IP 20

- 10 kohm.
- Linear potentiometer (no steps).
- Protected against overload.
- Volume controller for CHAMP-3D and AUDIOCONTROL12.8.
- Dimensions: 90 (h) x 90 (w) x 85 (d) mm.
- Genuine Niko parts and compatibility.
- Color: intense-white.

The D-VOL remote volume control range has an inconspicuous design which allows a perfect integration with your light switches and power plugs.

The 70 volt constant voltage volume controls offer a solution in almost every application.

The 24 volt priority is ideal for emergency messaging and paging, bypassing the local volume.

70 VOLT, 30 / 60 / 120 WATT VOLUME CONTROLS

D-VOL30 | D-VOL60 | D-VOL120

IP 20   70

- 70 volt.
- Power: 30 watts, 60 watts and 120 watts.
- Steps: 0 + 11.
- 24 volt priority relay bypasses volume control for failsafe applications.
- Inverted priority available.
- Color: white.
- Dimensions: 115 (h) x 70 (w) x 70 (d) mm.
- Compatible with D-MODON.
  (See page 155 for more information)

EURO CONTROLS

The EURO Series of volume controls has an inconspicuous design which allows a perfect integration with your light switches and power plugs. They are available in a constant voltage and a low impedance version that ensures a solution in almost every application.

100 VOLT, 20 / 40 / 60 / 120 WATT VOLUME CONTROLS

E-VOL20 | E-VOL40 | E-VOL60 | E-VOL120

IP20 100

- 100 volt.
- Power: 20 watts, 40 watts, 60 watts, 120 watts.
- Steps: 0 + 11.
- 24 volt priority relay bypasses volume control for failsafe applications.
- Inverted priority available.
- Color: white.
- Dimensions: 80 (h) x 80 (w) x 50 (d) mm.
- Compatible with E-MODON / E-MODIN.
(See page 155 for more information)

STEREO, 2 X 40 WATT VOLUME CONTROL

E-VOLST

IP20 Ω4

- Stereo (4, 8 or 16 ohms).
- Power: 2 x 40 watts.
- Steps: 6.
- 4 - 20 ohm loads accepted.
- Color: white.
- Dimensions: 80 (h) x 80 (w) x 60 (d) mm.
- Compatible with E-MODON.
(See page 155 for more information)

MATRIX
CONTROLS

(D-)DIWAC is more than just a volume control-ler, it is a fully programmable multi-function audio and control wall panel user interface for use with AUDIOCONTROL12.8, AUDIOSYS-TEM8.8 and PREZONE2. The required func-tionality is configured via the host's graphical installer interface. DIWAC is available in Decora style (D-DIWAC).
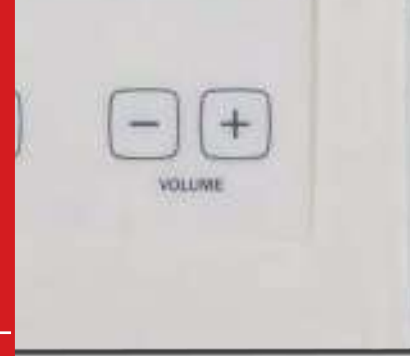
DIGITAL PROGRAMMABLE WALL CONTROL

DIWAC | D-DIWAC

- Easy wiring via 2 cables. Polarity independent.

- Configured with these functions:
  · Source selection via "SELECT" buttons.
  · Volume adjustment via "VOLUME" buttons.

- Possibility to assign new functions.

- The 2 line - 12 character LCD display has a timed white backlight.

- For use with AUDIOCONTROL12.8, AUDIOSYSTEM8.8 and PREZONE2

- Dimensions:
  · DIWAC: 84 (h) x 84 (w) x 30 (d) mm.
  · D-DIWAC: 115 (h) x 70 (w) x 20 (d) mm

- Compatible with E-MODIN / N-MODIN.
  (See page 155 for more information)

SDQ5PIR

CONTROLS

The ACP volume controls are very affordable and work with the Apart SDQ5PIR . You don't need to worry anymore about stolen remote controls, battery problems or a bad IR connection. With the ACP you can control the volume. The ACPL has a selectable microphone input and a stereo line input (mini-jack). On the ACPR there is an audio line input on the front panel to connect an iPhone, MP3-player or a laptop.

The ACP control wall panels allow you to forget the worries so often associated with audio in public rooms.

AUDIO CONTROL PANEL WITH LOCAL INPUT

ACPL

AUDIO CONTROL PANEL WITH DUAL INPUTS

ACPR

- On / Off, Volume, Mute functions.
- Selectable mic-input (jack) or stereo line input (mini-jack).
- All connection and power via single CAT5 cable.
- Increased line input sensitivity for laptops and MP3 players.
- Low-cut filter on mic-input: better speech intelligibility.
- For use with SDQ5PIR.
- Dimensions: 85 (h) x 85 (w) x 28 (d) mm.
- Compatible with E-MODIN / N-MODIN. (See page 155 for more information)

- On / Off, Volume, Mute functions.
- 1 stereo line input at the front (mini-jack).
- 1 stereo line input at the back (euro block).
- Auto switch to front panel input when connected.
- All connection and power via single CAT5 cable.
- Increased front line input sensitivity for laptops and MP3 players.
- For use with SDQ5PIR.
- Dimensions: 85 (h) x 85 (w) x 35 (d) mm.
- Compatible with E-MODIN / N-MODIN. (See page 155 for more information)

ZONE4
CONTROLS

The ZONE4R is a digital remote control for the multi-zone pre-amplifier, ZONE4. This control panel offers music level control, source selection and microphone mix level control. A clear digital display makes it easy to monitor the functioning of the ZONE4 unit. ZONE4R has all basic controls, is easy to install and easy to use. The combination with the ZONE4 pre-amplifier gives you the competitive edge to tackle even the most complicated situations.

ZONE4 CONTROL FOR MUSIC LEVEL & SOURCE SELECT

ZONE4R

- Basic controls: easy to use!

- Status display.

- Music level and mic-mix level control+mute, source select.

- Sophisticated and yet affordable!

- Easy to wire with UTP CAT5.

- For use with ZONE4.

- Dimensions: 80 (h) x 115 (w) x 83 (d) mm.

- Compatible with BB1/ BBI1.
  (See page 155 for more information)

LOCAL INPUT CONTROLS

A local input control can be a useful and above all a time-saving product. No complex devices with multiple buttons to control... just plug in and control the volume, nothing more, nothing less! Especially in rooms where very often a music source or microphone is used, the (D-)ALINP plays its role. With the (D-)ALINP you can connect your device in a blink of an eye!

The Apart (D-)ALINP is a local input wall control panel that makes it possible to connect a music source and/or microphone. The connected music source and microphone have individual volume control. The built-in mic pre-amplifier and high quality input transformer guarantees an exceptional audio quality. The line and microphone input are automatically mixed together so that only one input at your matrix, pre-amplifier or mixing amplifier is used.

As the (D-)ALINP operates with a 24 - 48 volt phantom power supply it is extremely versatile and can be used with any mixing desk, matrix or pre-amplifier that has a mic / line input with at least 24V phantom power supply (e.g. AUDIOCONTROL12.8, PM1122 or the MA247 and MA247MR mixing amplifiers).

ACTIVE LOCAL INPUT PANEL
ALINP | D-ALINP

- Line and microphone inputs both with individual volume control.

- Easy and fool-proof shielded 2-wire system.

- Built-in high quality input transformer to avoid ground loops.

- Built-in pre-amplifier that amplifies and mixes the mic and line signal together automatically.

- Phantom powered (no additional power supply).

- Push lock volume buttons.

- ALINP fits into E-MODIN and N-MODIN.

- Can be used with AUDIOCONTROL12.8, PM1122 (with modification), ZONE4R (with modification) MA30/60/120/240, MA247(MR), PREZONE1 and PREZONE2.

OTHER LOCAL INPUT PANELS
PM1122RL | ACPL | ACPR

- PM1122RL:
  · Balanced mic and line input via stereo mini jack.
  · Level & tone control for local input.
  · For PM1122 pre-amplifier only.
  · See "PM1122RL" on page 142.

- ACPL:
  · Selectable mic-input (jack)
    or stereo line input (mini-jack).
  · For SDQ5PIR active loudspeaker set only.
  · See "ACPL" on page 138.

- ACPR:
  · 1 stereo line input at the front (mini-jack).
  · 1 stereo line input at the back (Euroblock).
  · For SDQ5PIR active loudspeaker set only.
  · See "ACPR" on page 138.

PM1122
CONTROLS

To control the multifunctional pre-amplifier PM1122, Apart developed two analog wired remote controls: PM1122R and PM1122RL. Both control panels offer music level control, line source selection and microphone mix level control. The PM1122RL has an additional local microphone and line input (via XLR and mini-jack) with separate level and tone control.

ANALOG VOLUME CONTROL

PM1122R

IP 20

- Analog wall control.

- Source select, mic mix volume, music volume.

- Easy wiring via standard UTP CAT5 cable.

- Dimensions:
  · 80 (h) x 115 (w) x 40 (d) mm.

- Compatible with BB1 and BBI1.
  (See page 155 for more information)

ANALOG VOLUME CONTROL

PM1122RL

IP 20

- Analog wall control.

- Source select, mic mix volume, music volume.

- Easy wiring via standard UTP CAT5 cable.

- PM1122RL only
  · Balanced mic (XLR) & line input (stereo mini jack).
  · Level control & Tone control for local input.

- Dimensions:
  · 115 (h) x 115 (w) x 40 (d) mm.

- Compatible with BB2 and BBI2.
  (See page 155 for more information)

19" & DESKTOP CONTROLS

Multiple stereo volume controls can control the volume in 4 (SVC4) or 6 (19-VOL660) different zones!

The Apart 19-VOL660 is a 19" unit equipped with 6 x 100 volt volume controls that can handle up to 60 watts of power each. The volume controls are very durable due to their step by step attenuation in 11 steps + zero position. Each volume control is equipped with a 24V priority relay which means that a microphone call will always come through at maximum volume no matter what position the volume control is in.

SVC4 is a unique multiple stereo volume control that gives the possibility to adjust (or switch off) the volume in 4 different zones. Built in a compact black metal housing, such is very durable due to the step-by-step volumes.

100 VOLTS, 6 X 60 WATTS VOLUME CONTROL

19-VOL660

IP20 | 100

- 100 volt.
- Power: 6 x 60 watts.
- Steps: 0 + 11.
- 6 individual 24V priority inputs set volume to max.
- For in-rack installation.
- Dimensions: 88 (h) x 483 (w) x 230 (d) mm.

4-ZONE STEREO VOLUME CONTROL

SVC4

IP20

- Multiple stereo volume control.
- Adjust/switch off volume in 4 different zones.
- 8 ohm loudspeakers: 2 x (2 x 40) watts.
- 16 ohm loudspeakers: 4 x (2 x 40) watts.
- Built in a compact black metal housing.
- Dimensions: 46 (h) x 210 (w) x 185 (d) mm.

SHOP SOLUTION

BAR SOLUTION

LOUNGE SOLUTION

PUBSET-BL

MEETING SOLUTION

WHICH APART SOLUTION TO CHOOSE IN THIS APPLICATION?

BIAMP SOLUTIONS

Biamp solutions used in following reference
Carmi Fashion Store - Zemst, Belgium

SET SOLUTIONS

PUT PEOPLE IN A DANCING MOOD!

PUBSET

Feel the vibes! The Apart **PUBSET** is powered by the digital **CHAMP-3D** amplifier. The unit has a DSP and because of the fanless convection cooling it is insensitive to dust, grease or smoke. The unequalled **MASK8** loudspeakers bring crystal clear high and mid tones and the powerful kick basses that come from the **SUB2400** subwoofers make you stop in your tracks and wonder...

The **PUBSET** is the ultimate set for creating an enthusiastic ambiance for dance floor applications in dance cafés, bars or trendy fashion stores, your pool house or the children's basement area.

SET CONFIGURATION

- 4 x MASK8 top loudspeakers.

- 2 x SUB2400 subwoofers.

- 1 x CHAMP-3D amplifier.

- Available in two colors:
  · PUBSET-BL: black speakers and subwoofer.
  · PUBSET-W: white speakers and subwoofer.

BAR SOLUTION

Get the party started.

- 6 x MASK6CT loudspeakers.
- 2 x SUB2201 subwoofers.
- 1 x CHAMP-3D amplifier.

MEETING SOLUTION

Make a professional impression.

- 4 x MASK6C loudspeakers.
- 1 x CONCEPT1 Integrated amplifier.
- 2 x MASKCL fixing bracket sets.

SHOP SOLUTION

Fits in every interior style.

- 4 x CM4 loudspeakers.
- 1 x SUBLIME or 2 x CMSUB8.
- 1 x CONCEPT1 integrated amplifier.

LOUNGE SOLUTION

Generate a cozy lounge area.

- 6 x MASK4CT loudspeakers.
- 1 x SUB2201 subwoofers.
- 1 x CHAMP-3D amplifier.

DESIGN SOLUTION

Provide ambient background music.

- 2 x MASK2 loudspeakers.
- 1 x SUBLIME subwoofer.
- 1 x CONCEPT1 Integrated amplifier.

REFERENCES

GET INSPIRED WITH REAL LIFE APPLICATION EXAMPLES
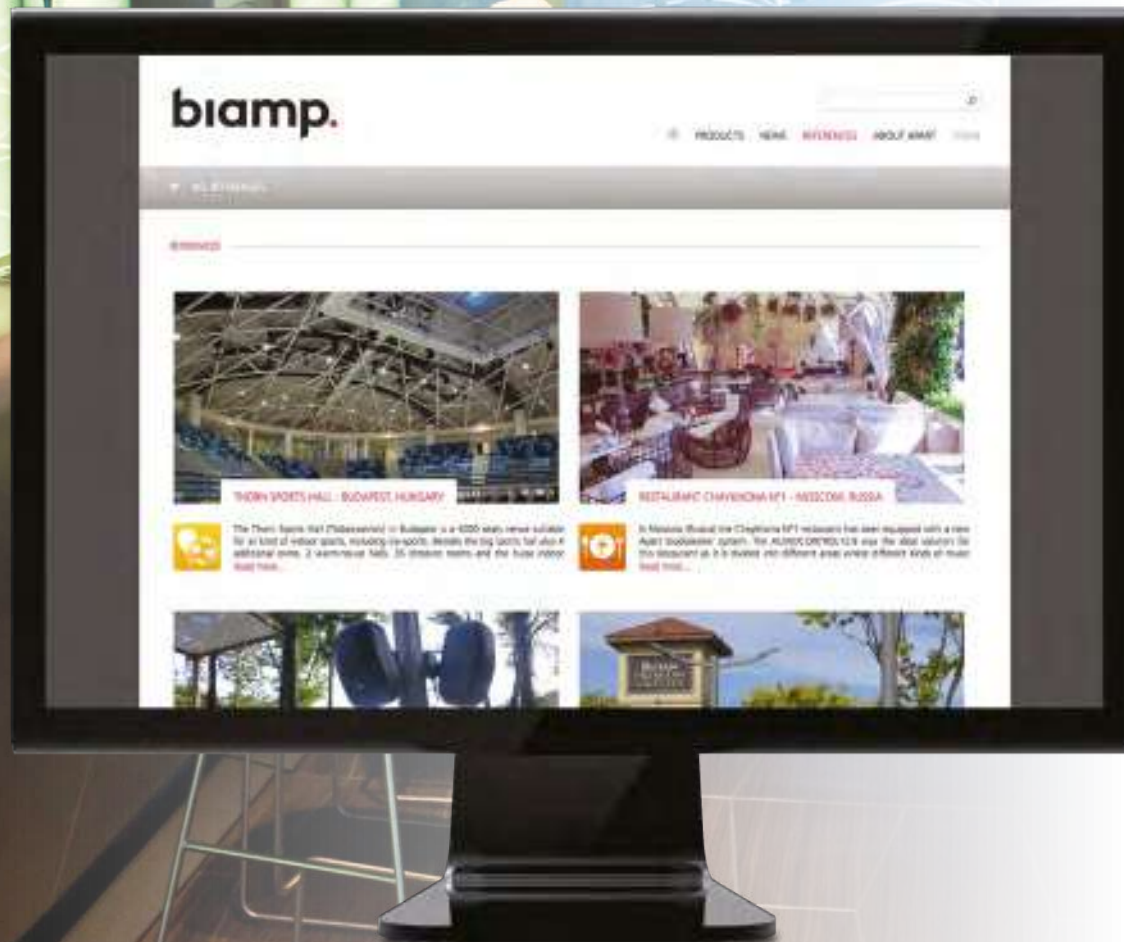
Apart products can be installed in a variety of applications like corporate, retail, foodservice & hospitality, outdoor, sports & leisure or education & religion.

Convince your customers by showing them all worldwide Apart installations. Discover the Apart references on the Apart website.

Visit biamp.com/apart and discover:

Samjung Animal Park – South-Korea
KFC Restaurants – Croatia
Ski Station Verbier – Switzerland
Starbucks Coffee – Australia
Lech Walesa Airport – Poland
Atlas Copco - Belgium

and many more...

PLUG & PLAY INSTALLED SOUND PROJECTS
DISCOVER MORE THAN 50 DETAILED AUDIO SOLUTIONS

What loudspeaker should I choose and how many should I install to get the best audio result?

Which electronics do I need in this project?

How do I connect my cables to which amplifier or music source?

The digital Plug & Play Guide will help you to make the right choice in each application... in just 5 simple steps!

Go to biamp.com/apart and experience how easy it is to setup an audio installation for different kind of projects.

RJ45SPLIT

CMS5BBI

IMPMET

T20IP

COLWBRA

WHICH INSTALLATION AIDS TO CHOOSE IN THIS APPLICATION?

INSTALLATION AIDS

TOOLS & TRANSFORMERS

Apart understands the installers' needs and therefore created some installation tools.

The IMPMET is an impedance meter that measures true impedance of loudspeakers and speaker lines on low impedance or in 100 volt systems in order to avoid amplifier overload.

BUZZSTOP-MKIII is another installation tool which has 2 isolated internal audio transformers that avoids you the headache of hum and buzz.

With the different transformers you can change any low impedance loudspeaker into a 100 volt loudspeaker.

SIGNAL CONVERTOR & GROUND ISOLATOR

BUZZSTOP-MKIII | BUZZ19

- Dual channel / stereo.
- Converts any amplifier output (100 volt, low impedance or tel signal) into a line level output (balanced or unbalanced).
- Converts from unbalanced to balanced and vice versa.
- The audio transformer isolation avoids ground loops (hum).
- Dimensions: 44 (h) x 241 (w) x 60 (d) mm.
- Optional metal adaptor "BUZZ19" available to mount two BUZZSTOP-MKIII units in a 19" rack.

ACCURATE IMPEDANCE METER

IMPMET

- Measures true impedance of loudspeakers and speaker lines on low impedance or in 100 volt systems in order to avoid amplifier overload.
- 3.5 digit LCD display with data hold, low battery and measured units indication.
- Basic accuracy: +- 2% + 2 digits at 18 to 28°C and relative humidity <75%.
- Test frequency: approx. 330 Hz.
- Standard: double insulation, meets IC-1010. Installation CAT III 100 volt.
- Test leads with separate alligator clips, soft bag and user manual included.
- Battery powered, 6 x AA alkaline batteries included.
- Dimensions: 110 (h) x 168 (w) x 62 (d) mm.

8 OHM / 100 VOLT TRANSFORMER

T20IP

- By using the T20IP you can change a standard 8 ohm loudspeaker into a 100 volt loudspeaker.
- 20 - 10 - 5 - 2.5 watt power selection switch.
- Suited for the most humid environments. (yachts, cruise ships, swimming pools, saunas, bathrooms, ...)
- Dimensions: 53 (h) x 112 (w) x 58 (d) mm.

8 OHM / 100 VOLT TRANSFORMER

T20
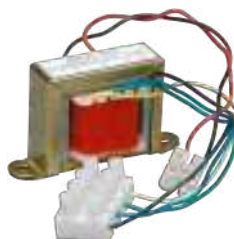
- By using the T20 you can change a standard 8 ohm loudspeaker into a 100 volt loudspeaker.
- 20 - 10 - 5 - 2.5 watt power tappings.
- Dimensions: 44 (h) x 70 (w) x 34 (d) mm.

8 OHM / 100 VOLT TRANSFORMER

T60

- By using the T60 you can change a standard 8 ohm loudspeaker into a 100 volt loudspeaker.
- 60 - 30 - 15 - 6 watt power tappings.
- Dimensions: 60 (h) x 77 (w) x 46 (d) mm.

LOUDSPEAKER BACK BOXES

CMBB

- On-wall or in-wall back-box for CM6E, CM6T, CM20T, CM608, CM20DT, CM608D.
- The conical shape guarantees a perfect fit into a concrete or brick wall or ceiling.
- Dimensions:
  · 230 (Ø) x 80 (d) mm.

CMS5BBI

- Zincor treated (rust-free)metal in-wall back-box for CMSQ108, CMS508, CMS15T.
- Dimensions:
  · 221 (h) x 221 (w) x 90 (d) mm.

CMRQ108BBI

- Zincor treated (rust-free)metal in-wall back-box for CMRQ108.
- Dimensions:
  · 351 (h) x 251 (w) x 90 (d) mm.

CMRQ108CBBI

- Zincor treated (rust-free) metal in-wall back-box for CMRQ108C.
- Dimensions:
  · 221 (h) x 402 (w) x 90 (d) mm.

CMS6BBI

- Zincor treated (rust-free) metal in-wall back-box for CMS608, CMS20T.
- Dimensions:
  · 251 (h) x 251 (w) x 90 (d) mm.

CMRBBI

- CMRBBI is used to build in rectangular Apart 5″ CMR Loudspeakers into concrete or brick walls.
- Dimensions:
  · 213 (h) x 146 (w) x 84 (d) mm.

CMRBB

- With the CMRBB on-wall back-box you can change a 5.25″ CMR built-in loudspeaker into a cabinet loudspeaker.
- Dimensions:
  · 235 (h) x 167 (w) x 85 (d) mm.

WALL CONTROL BACK BOXES

D-MODON

- The D-MODON on-wall back-box can be used with the Apart D-VOL volume controls.
- Dimensions:
  · 115 (h) x 70 (w) x 80 (d) mm.

E-MODON

- The E-MODON on-wall back-box can be used with the Apart E-VOL volume controls.
- Dimensions:
  · 83 (h) x 83 (w) x 50 (d) mm.

BB1

- The BB1 on-wall back-box can be used with the Apart ZONE4R and PM1122R wall controls.
- Dimensions:
  · 80 (h) x 114 (b) x 48 (d) mm.

BB2

- The BB2 on-wall back-box can be used with the Apart PM1122RL wall control.
- Dimensions:
  · 116 (h) x 116 (w) x 56 (d) mm.

E-MODIN
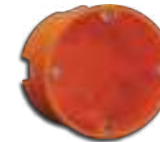
- The E-MODIN in-wall back-box can be used with DIWAC, ALINP, ACP, ACPL, ACPR and Apart E-VOL volume controls.
- Dimensions:
  · 70 (Ø) x 60 (d) mm.

BBI1

- The BBI1 in-wall back-box can be used with the Apart ZONE4R and PM1122R wall controls.
- Dimensions:
  · 80 (h) x 115 (b) x 40 (d) mm.

BBI2
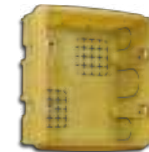
- The BBI2 in-wall back-box can be used with the Apart PM1122RL wall control.
- Dimensions:
  · 93 (h) x 101 (w) x 40 (d) mm.

N-MODIN

- The N-MODIN in-wall back-box can be used with the DIWAC, ALINP, ACP, ACPL, ACPR and the Apart Niko volume controls.
- Dimensions:
  · 82 (h) x 78 (w) x 52 (d) mm.

MOUNTING SOLUTIONS

MASK12PBRA-BL

- Wall mount bracket for MASK12(T) cabinet loudspeaker.
- The arm can be swivelled over a 180° angle from left to right and can be tilted down up to 20° by turning the tilt screw.
- Available in black.
- Dimensions:
  · 290 (h) x 130 (w) x 450 (d) mm.

MASK12UBRA-W | MASK12UBRA-BL

- MASK12UBRA is a U-bracket for MASK12 & MASK12T.
- Available in white and black.
- Dimensions:
  · 650 (h) x 320 (w) x 60 (d) mm.

MASKCL-W | MASKCL-BL

- The MASKCL bracket combined with a MASKC CLICKMOUNT bracket makes it possible to install a MASK4C(T) or MASK6C(T) loudspeaker in a full 90° angle.
- Available in white and black.
- Dimensions:
  · 185 (h) x 50 (w) x 130 (d) mm.

MASKCV-W | MASKCV-BL

- The MASKCV bracket can carry two MASK4C(T) or two MASK6C(T) loudspeakers of the same size and weight at an 180° angle to each other.
- Available in white and black.
- Dimensions:
  · 120 (h) x 80 (w) x 70 (d) mm.

MASKCW-W | MASKCW-BL

- The MASKCW bracket can carry four MASK4C(T) or MASK6C(T) loudspeakers of the same size and weight at an 90° angle to each other.
- Available in white and black.
- Dimensions:
  · 120 (h) x 210 (w) x 210 (d) mm.

STT

- T-mount to mount two MASK8F-BL or MASK8-BL loudspeakers on a single STSUB pole.
- Dimensions:
  · 300 (h) x 280 (w) x 30 (d) mm.

STSUB

- Pole to combine SUB2400 or SUB2201 with MASK8F-BL or MASK8-BL loudspeaker.
- Dimensions:
  · max. 1430 (h) mm.

MASK2CMT-W | MASK2CMT-BL

- The MASK2CMT bracket combined with the MASK2 bracket makes it possible to install the MASK2 loudspeaker on the ceiling.
- Available in white and black.
- Dimensions:
  · 40 (h) mm.

COLSBRA

- COLSBRA is a turn and tilt bracket for the Apart COLS column loudspeaker series.
- Dimensions:
  · 82 (h) x 35 (w) x 93 (d) mm.

COLWBRA

- COLWBRA is a turn and tilt bracket for the Apart COLW column loudspeaker series.
- Dimensions:
  · 82 (h) x 52 (w) x 130 (d) mm.

VINCI5BRA-W | VINCI5BRA-BL

- VINCI5BRA is a turn and tilt bracket for VINCI4, VINCI4-16 & VINCI5.
- Available in white and black.
- Dimensions:
  · 82 (h) x 35 (w) x 93 (d) mm.

LRABAS-W | LRABAS-BL

- The LRABAS is a basic light rail adaptor for KUBO3(T)/5(T), SDQ5P(IR), OVO5(T).
- Available in white and black.
- Dimensions:
  · 40 (h) x 50 (w) x 40 (d) mm.

LRAPRE-W | LRAPRE-BL

- The LRAPRE is a premium light rail adaptor for KUBO3(T)/5(T), SDQ5P(IR), OVO5(T).
- Available in white and black.
- Dimensions:
  · 58 (h) x 85 (w) x 32 (d) mm.

CONNECTION CABLES

CE2E2
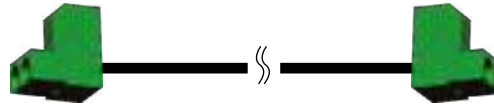
- Euroblock2 - Euroblock2.
- Cable length: 1.5 m.

CE3E3
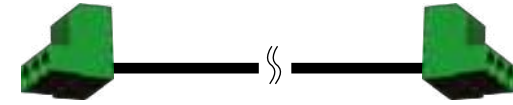
- Euroblock3 - Euroblock3.
- Cable length: 1.5 m.

CXFXM
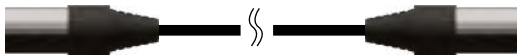
- XLR3 female - XLR3 male.
- Cable length: 1.5 m.

CE3RC
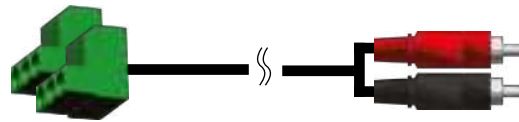
- 2 x Euroblock3 - RCA cinch stereo.
- Cable length: 1.5 m.

CMJRC
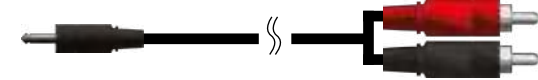
- Mini jack - RCA cinch stereo.
- Cable length: 1.5 m.

CRCRC

- RCA - RCA cinch stereo.
- Cable length: 1.5 m.

CE3XM
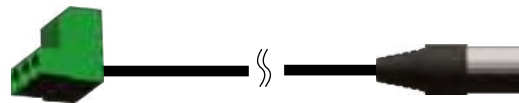
- Euroblock3 - XLR3 male.
- Cable length: 1.5 m.

CE3XF
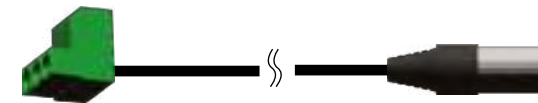
- Euroblock3 - XLR3 female.
- Cable length: 1.5 m.

ADAPTERS & SPLITTERS

CSP

- Speakon® connector.

- Dimensions
  · 262 (Ø) x 77 (d) mm.

DAB-FM

- DAB-FM gives you the comfort to choose between a DAB antenna and cable distribution on your tuner.

- Dimensions
  · 53 (h) x 58 (w) x 16 (d) mm.

RJ45SPLIT

- RJ45 splitter is used to connect 4 MICPAT paging microphones or 8 ZONE4R control panels.

- Dimensions
  · 29 (h) x 104 (w) x 40 (d) mm.

20,	10,0	7,5		7,3
,4	7,2	8,3		9,4
10,2	7,9	12,2		6,3
6,8	10,6	7,2		
7,7		6,4		6,9
9,1	11,3		6,9	7,1
13,3	6,9	6,9		
7,9	6,4	7,0		

FACTS & FIGURES

model / name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	installation grip range (mm)	loudspeaker system	woofer size (inch)	woofer cone material (poly=polypropylene, CP=coated paper, P=paper, K=Kevlar)	tweeter size (inch)	back can	color(*): white (W), black (BL), gray (G)	100V transformer power taps (watts)	70V transformer power taps (watts)	impedance (ohms)	low imp. dynamic power (W)	low imp. RMS power (W)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	main construction material	grille main material	IP rating	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
CM RECTANGULAR SERIES																									
CMR20T	-	170	237	73	146 x 213	3 - 17	2-way	5.25	poly	1	-	RAL9010	20 - 10 - 5 - 2.5	-	16	60	40	85	100	60 - 20k	ABS plastic	aluminium	54	180°	180°
CMR608	-	170	237	60	146 x 213	3 - 17	2-way	5.25	poly	1	-	RAL9010	-	-	8	60	40	92	108	60 - 20k	ABS plastic	aluminium	54	180°	180°
CM ROUND ECONOMY SERIES																									
CM5EH	187	-	-	45	163	1 - 35	dual cone	5.25	CP	-	-	W: RAL9003	6 - 3	-	8	30	15	89	96	100 - 18k	ABS plastic	plastic	54	-	-
CM6E	205	-	-	70	186	1 - 25	dual cone	6.5	paper	-	-	W: RAL9010	6 - 3 - 1.5	-	4	30	15	91	99	70 - 20k	ABS plastic	steel	50	180°	180°
CM8E	244	-	-	87	223	4 - 25	2-way	8	poly	1	-	W: RAL9010	6 - 3 - 1.5	-	16	100	50	88	96	50 - 20k	ABS plastic	aluminium	54	180°	180°
CM ROUND CLASSIC SERIES																									
CM1008	244	-	-	90	223	4 - 25	2-way	8	poly	1	-	W: RAL9010 / BL: RAL9011	-	-	8	100	60	90	107	50 - 20k	ABS plastic	aluminium	54	180°	180°
CM20T	205	-	-	80	186	2 - 25	2-way	6.5	poly	1	-	W: RAL9010 / BL: RAL9011	20 - 10 - 5	20 - 10 - 5 - 2.5	16	60	30	86	104	60 - 20k	ABS plastic	aluminium	54	180°	180°
CM3T	105	-	-	74	85	1 - 15	dual cone	3	CP	-	-	W: RAL9010 / BL: RAL9011	6 - 3 - 1.5	6 - 3 - 1.5 - 0.75	16	20	10	87	99	120 - 18k	steel	aluminium	50	180°	180°
CM4	135	-	-	107	108	1 - 15	dual cone	4	CP	-	•	W: RAL9003 / BL: RAL9011	-	-	16	30	15	88	103	100 - 20k	steel	aluminium	60	180°	180°
CM4T	135	-	-	74	108	1 - 15	dual cone	4	CP	-	-	W: RAL9010 / BL: RAL9011	6 - 3 - 1.5	6 - 3 - 1.5 - 0.75	16	30	15	88	103	90 - 19k	steel	aluminium	50	180°	180°
CM608	205	-	-	75	186	2 - 25	2-way	6.5	poly	1	-	W: RAL9010 / BL: RAL9011	-	-	8	60	40	92	104	60 - 20k	ABS plastic	aluminium	54	180°	180°
CM6T	205	-	-	75	186	2 - 25	2-way	6.5	poly	1	-	W: RAL9010 / BL: RAL9011	6 - 3 - 1.5	6 - 3 - 1.5 - 0.75	16	60	30	87	105	60 - 20k	ABS plastic	aluminium	54	180°	180°
CM6TSMF	205	-	-	120	182	1 - 30	dual cone	6.5	CP	-	•	W: RAL9003	6 - 3 - 1.5	-	-	-	-	94	101	90 - 19k	steel	steel	60	180°	180°
CMX20T	244	-	-	87	223	4 - 25	2-way	8	poly	1	-	W: RAL9010 / BL: RAL9011	20 - 10 - 5	20 - 10 - 5 - 2.5	16	100	50	88	108	50 - 20k	ABS plastic	aluminium	54	180°	180°
CM ROUND DESIGN SERIES																									
CM1008D	250	-	-	90	223	6 - 29	2-way	8	poly	1	-	W: RAL9010	-	-	8	100	60	90	107	50 - 20k	ABS plastic	steel	50	180°	180°
CM20DT	210	-	-	80	186	2 - 25	2-way	6.5	poly	1	-	W: RAL9010	20 - 10 - 5	20 - 10 - 5 - 2.5	16	60	30	86	104	60 - 20k	ABS plastic	steel	50	180°	180°
CM20DTS	223	-	-	84	193	3 - 41	2-way	4.25	CP	1	•	W: RAL9010	20 - 10 - 5 - 2.5	20 - 10 - 5 - 2.5 - 1.25	16	60	40	88	104	80 - 20k	ABS plastic	steel	50	180°	180°
CM30DTD	223	-	-	131	193	3 - 65	2-way	4.25	poly	1	•	W: RAL9010	30 - 15 - 7.5 - 3.75	30 - 15 - 7.5 - 3.75 - 1.75	16	80	50	88	108	75 - 20k	ABS plastic	steel	50	180°	180°
CM608D	210	-	-	75	186	2 - 25	2-way	6.5	poly	1	-	W: RAL9010	-	-	8	60	40	92	104	60 - 20k	ABS plastic	steel	50	180°	180°
CM60DTD	258			157	232	3 - 65	2-way	6.5	CP	1	•	W: RAL9010	60 - 30 - 15 - 7.5	60 - 30 - 15 - 7.5 - 3.75	16	120	60	91	110	65 - 20k	ABS plastic	steel	50	180°	180°
CM6QFT	237	-	-	67	219	10 - 30	2-way	6.5	paper	-	-	W: RAL9010	6 - 3 - 1.5	-	16	40	40	89	106	60 - 20k	ABS plastic	steel	50	180°	180°
CMX20DT	250	-	-	87	223	6 - 29	2-way	8	poly	1	-	W: RAL9010	20 - 10 - 5	20 - 10 - 5 - 2.5	16	100	50	88	108	50 - 20k	ABS plastic	steel	50	180°	180°
CM SQUARE SERIES																									
CMS15T	-	171	171	66	151 x 151	3 - 28	2-way	5.25	poly	1	-	W: RAL9010	15 - 10 - 5 - 2.5	-	16	50	35	82	100	60 - 20k	ABS plastic	aluminium	54	180°	180°
CMS20T	-	201	201	75	181 x 181	1 - 16	2-way	6.5	poly	1	-	W: RAL9010	20 - 10 - 5 - 2.5	-	16	60	40	89	104	60 - 20k	ABS plastic	aluminium	54	180°	180°
CMS508	-	171	171	60	151 x 151	3 - 28	2-way	5.25	poly	1	-	W: RAL9010	-	-	8	50	35	86	101	60 - 20k	ABS plastic	aluminium	54	180°	180°
CMS608	-	201	201	75	181 x 181	1 - 16	2-way	6.5	poly	1	-	W: RAL9010	-	-	8	60	40	92	104	60 - 20k	ABS plastic	aluminium	54	180°	180°
HI-FI SERIES																									
CMRQ108	-	296	196	78	275 x 175	1 - 30	2-way	6.5	K	1	-	W: RAL9016	-	-	8/12	120	60	85	107	45 - 25k	ABS plastic	steel	60	180°	180°
CMRQ108C	-	176	346	69	156 x 326	1 - 30	2-way	2x5.3	K	1	-	W: RAL9016	-	-	8	100	50	85	105	55 - 25k	ABS plastic	steel	60	100°	180°
CMSQ108	-	167	167	73	148 x 148	1 - 28	2-way	5.25	K	1	-	W: RAL9016	-	-	8	50	25	87	101	50 - 25k	ABS plastic	steel	60	-	-
MARINE SERIES																									
CMAR5	152	-	-	55	113	1 - up	2-way	5.25	poly	1	-	W: RAL9003	-	-	8	50	25	88	100	85 - 20k	ABS plastic	stainless steel	65	180°	180°
CMAR5T	152	-	-	55	113	1 - up	2-way	5.25	poly	1	-	W: RAL9003	20 - 10 - 5 - 2.5	-	8	50	25	88	100	85 - 20k	ABS plastic	stainless steel	65	180°	180°
CMAR6	190	-	-	61	151	1 - up	2-way	6.5	poly	1	-	W: RAL9003	-	-	8	60	30	89	104	78 - 20k	ABS plastic	stainless steel	65	180°	180°
CMAR6T	190	-	-	61	151	1 - up	2-way	6.5	poly	1	-	W: RAL9003	20 - 10 - 5 - 2.5	-	8	60	30	89	104	78 - 20k	ABS plastic	stainless steel	65	180°	180°
CMAR8	220	-	-	76	184	1 - up	2-way	8	poly	1	-	W: RAL9003	-	-	8	100	50	88	107	55 - 20k	ABS plastic	stainless steel	65	180°	180°
CMAR8T	220	-	-	76	184	1 - up	2-way	8	poly	1	-	W: RAL9003	20 - 10 - 5 - 2.5	-	8	100	50	88	107	55 - 20k	ABS plastic	stainless steel	65	180°	180°
SUBWOOFER SERIES																									
CMSUB8	246	-	-	97	223	3 - 18	dual coil	8	CP	-	-	W: RAL9003	-	-	2 x 8	2 x 80	2 x 40	88	107	50 - 200	ABS plastic	aluminium	54	-	-

(*) Nearest RAL color code, color deviation can occur.

Technical changes may be made at the discretion of the manufacturer, errors and omissions excluded.

CABINET LOUDSPEAKERS

Model name	height (mm)	width (mm)	depth (mm)	loudspeaker system	woofer size (inch)	woofer cone material (poly=polypropylene, CP=coated paper, P=paper, K=Kevlar)	tweeter size (inch)	mounting system	closest RAL color: white (W), black (BL), gray (G)	100V transformer power taps (watts)	70V transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	low impedance RMS power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	main construction material	grille main material	IP rating	active	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
COLUMN SERIES																							
COLS41	400	66	66	multiple	4 x 2	CP	1	L-brackets	W: RAL9016	20 - 10 - 5	20 - 10 - 5 - 2.5	8	30	20	88	100	250 - 20k	aluminium	aluminium	66	-	180°	110°
COLS81	614	66	66	multiple	8 x 2	CP	1	L-brackets	W: RAL9016	30 - 15 - 6	30 - 15 - 6 - 3	16	40	30	86	104	220 - 20k	aluminium	aluminium	66	-	180°	50°
COLS101	721	66	66	multiple	10 x 2	CP	1	L-brackets	W: RAL9016	40 - 20 - 10	40 - 20 - 10 - 5	8	60	30	91	106	200 - 20k	aluminium	aluminium	66	-	180°	40°
COLW41	555	100	83	multiple	4 x 3.3	CP	1	L-brackets	W: RAL9016	40 - 30 - 15	40 - 30 - 15 - 7	16	60	40	92	110	190 - 20k	aluminium	aluminium	66	-	180°	50°
COLW81	974	100	83	multiple	8 x 3.3	CP	1	L-brackets	W: RAL9016	80 - 40 - 30	80 - 40 - 30 - 15	8	120	80	98	116	170 - 20k	aluminium	aluminium	66	-	180°	25°
COLW101	1180	100	83	multiple	10 x 3.3	CP	1	L-brackets	W: RAL9016	100 - 60 - 40	100 - 60 - 40 - 20	8	140	100	99	118	160 - 20k	aluminium	aluminium	66	-	180°	65°
KUBO SERIES																							
KUBO3	125	131	109	full range	3	poly	-	U-bracket	W: RAL9016 / BL: RAL9011	-	-	8	40	25	89	101	94 - 20K	ABS plastic	steel	40	-	180°	180°
KUBO3T	125	131	109	full range	3	poly	-	U-bracket	W: RAL9016 / BL: RAL9011	10 - 5 - 2.5	10 - 5 - 2.5 - 1.25	16	40	25	89	101	94 - 20K	ABS plastic	steel	40	-	180°	180°
KUBO5	155	164	136	2-way	5.25	CP	1	U-bracket	W: RAL9016 / BL: RAL9011	-	-	8	80	50	92	106	94 - 20K	ABS plastic	steel	40	-	180°	180°
KUBO5T	155	164	136	2-way	5.25	CP	1	U-bracket	W: RAL9016 / BL: RAL9011	30 - 15 - 6 - 3	30 - 15 - 6 - 3 - 1.5	16	80	50	92	106	94 - 20K	ABS plastic	steel	40	-	180°	180°
MASK SERIES																							
MASK2	94	82	108	full range	2.5	P	-	turn / tilt bracket	W: RAL9016 / BL: RAL9011	-	-	8	50	35	87	98	120 - 20k	ABS plastic	cloth	60	-	-	180°
MASK4C	238	144	144	2-way	4.25	CP	1	ClickMount	W: RAL9016 / BL: RAL9011	-	-	8	70	50	92	104	80 - 20k	ABS plastic	aluminium	64	-	180°	180°
MASK4CT	238	144	144	2-way	4.25	CP	1	ClickMount	W: RAL9016 / BL: RAL9011	20 - 10 - 5 - 2.5	20 - 10 - 5 - 2.5 - 1.25	16	70	50	89	104	80 - 20k	ABS plastic	aluminium	64	-	180°	180°
MASK6C	328	198	190	2-way	6.5	CP	1	ClickMount	W: RAL9016 / BL: RAL9011	-	-	8	200	150	90	110	60 - 20k	ABS plastic	aluminium	64	-	180°	180°
MASK6CT	328	198	190	2-way	6.5	CP	1	ClickMount	W: RAL9016 / BL: RAL9011	60 - 30 - 15 - 6	60 - 30 - 15 - 7.5 - 3	16	200	150	90	111	65 - 20k	ABS plastic	aluminium	64	-	180°	180°
MASK8	411	250	250	2-way	8	P	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	300	200	92	116	60 - 20k	mdf wood	steel	40	-	160°	180°
MASK8F	411	250	250	2-way	8	P	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	300	200	90	112	50 - 25k	mdf wood	steel	40	-	150°	160°
MASK12	628	370	370	2-way	12	P	1.4	optional	W: RAL9003 / BL: RAL9011	-	-	8	700	350	98	127	48 - 22k	wood	steel	40	-	180°	180°
MASK12T	628	370	370	2-way	12	P	1.4	optional	W: RAL9003 / BL: RAL9011	240 - 120	240 - 120	-	-	-	98	122	48 - 22k	wood	steel	40	-	180°	180°
OVO SERIES																							
OVO3	160	110	117	2-way	3	CP	1	turn / tilt bracket	W: RAL9003 / BL: RAL9011	-	-	8	40	20	82	97	90 - 20k	ABS plastic	steel	40	-	180°	180°
OVO3T	160	110	117	2-way	3	CP	1	turn / tilt bracket	W: RAL9003 / BL: RAL9011	6 - 3 - 1.5	-	16	40	20	82	97	90 - 20k	ABS plastic	steel	40	-	180°	180°
OVO5	260	170	180	2-way	5.25	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	80	50	88	105	70 - 20k	ABS plastic	steel	40	-	180°	180°
OVO5P	260	170	180	2-way	5.25	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	2 x 20	2 x 15	88	101	50 - 20k	ABS plastic	steel	40	230V	180°	180°
OVO5T	260	170	180	2-way	5.25	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	30 - 15 - 6 - 3	-	16	80	50	88	107	70 - 20k	ABS plastic	steel	40	-	180°	180°
OVO8	358	245	250	2-way	8	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	160	80	87	109	45 - 20k	ABS plastic	steel	40	-	180°	170°
OVO8P	358	245	250	2-way	8	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	-	-	8	60	60	87	105	40 - 20k	ABS plastic	steel	40	230V	180°	170°
OVO8T	358	245	250	2-way	8	CP	1	U-bracket	W: RAL9003 / BL: RAL9011	60 - 30 - 15 - 6	-	16	160	80	84	110	45 - 20k	ABS plastic	steel	40	-	180°	165°
ROCK SERIES																							
ROCK20	260	200	280	2-way	6.5	poly	1	-	G: RAL7046	20 - 10 - 5 - 2.5	-	8	60	25	98	113	60 - 20k	ABS plastic	aluminium	64	-	180°	55°
ROCK608	260	200	280	2-way	6.5	poly	1	-	G: RAL7046	-	-	8	60	25	92	105	60 - 20k	ABS plastic	aluminium	64	-	180°	55°
SDQ SERIES																							
SDQ5P	253	180	162	2-way	5.25	poly	1	U-bracket	W: RAL9016 / BL: RAL9011	-	-	-	2 x 30	2 x 15	86	101	45 - 20k	ABS plastic	steel	40	230V	180°	180°
SDQ5PIR	253	180	162	2-way	5.25	poly	1	U-bracket	W: RAL9016 / BL: RAL9011	-	-	-	2 x 30	2 x 15	86	101	45 - 20k	ABS plastic	steel	40	230V	180°	180°
SM6 SERIES																							
SM6	140	202	72	single	5.25	P	-	wall plate	W: RAL9003 / G: RAL7038	6 - 3 - 1.5	-	-	-	-	92	98	200 - 20k	ABS plastic	steel	50	-	-	-
SM6V	140	202	72	single	5.25	P	-	wall plate	W: RAL9003 / G: RAL7038	6 - 3 - 1.5	-	-	-	-	92	98	200 - 20k	ABS plastic	steel	50	-	-	-
SMB6	140	202	72	single	5.25	P	-	U-bracket	W: RAL9003 / G: RAL7038	6 - 3 - 1.5	-	-	-	-	92	98	200 - 20k	ABS plastic	steel	50	-	-	-
SMB6V	140	202	72	single	5.25	P	-	U-bracket	W: RAL9003 / G: RAL7038	6 - 3 - 1.5	-	-	-	-	92	98	200 - 20k	ABS plastic	steel	50	-	-	-
PENDANT SERIES																							
P30DT	233	223	223	two-way	4.25	CP	1	dual Gripple	W: RAL9010 / BL: RAL9011	60 - 30 - 15 - 7.5	30 - 15 - 7.5 - 3.75 - 1.75	16	200 (**)	50	87	110	75 - 20k	ABS plastic	steel	50	-	180°	180°
P60DT	265	276	276	two-way	6.5	CP	1	dual Gripple	W: RAL9010 / BL: RAL9011	60 - 30 - 15 - 7.5	60 - 30 - 15 - 7.5 - 3.75	16	240 (**)	60	91	110	65 - 20k	ABS plastic	steel	50	-	180°	180°
SPH16	180	180	180	two-way	5.25	P	1	ceiling socket	W: RAL9003	16 - 8 - 4	-	8	25	16	88	102	80 - 20k	ABS plastic	ABS plastic	53	-	180°	180°
SPH20	255	255	255	dual cone	8	P	-	ceiling socket	W: RAL9003	20 - 10 -5	-	8	30	20	95	111	80 - 18k	ABS plastic	ABS plastic	63	-	110°	110°
SUB SERIES																							
SUB2201	600	300	380	single	10	P	-	-	BL: RAL9011	-	-	4	250	125	96	120	45 - 150	plywood	-	20	-	-	-
SUB2400	700	352	450	dual coil	2 x 10	P	-	-	W: RAL9003 / BL: RAL9011	-	-	4/16	600	300	99	133	45 - 150	plywood	-	20	-	-	-
SUBA165	356	260	405	single	8	CP	-	-	W: RAL9003 / BL: RAL9011	-	-	4	140	70	89	109	30 - 180	mdf wood	cloth	20	230V	-	-
SUBLIME	420	470	120	dual coil	6.5	CP	-	wall bracket	W: RAL9003 / BL: RAL9011	-	-	8	2 x 80	2 x 40	85	107	50 - 200	mdf wood	cloth	20	-	-	-
VINCI8S	345	262	405	single	8	CP	-	spikes	W: RAL9003 / BL: RAL9011	-	-	4	125	60	89	109	20 - 180	wood	cloth	20	230V	-	-
VINCI SERIES																							
VINCI4	210	136	164	2-way	4	CP	0.75	accessory	W: RAL9016 / BL: RAL9005	-	-	6	120	60	84	104	70 - 25k	mdf wood	cloth	20	-	-	-
VINCI4-16	210	136	164	2-way	4	CP	0.75	accessory	W: RAL9016 / BL: RAL9005	-	-	16	120	60	84	104	70 - 25k	mdf wood	cloth	20	-	-	-
VINCI5	254	176	198	2-way	5.25	K	0.75	accessory	W: RAL9016 / BL: RAL9005	-	-	6	160	80	86	108	60 - 25k	mdf wood	cloth	20	-	-	-
VINCI7	373	217	318	2-way	7	poly	1	-	BL: RAL9005	-	-	6	200	100	87	110	50 - 25k	mdf wood	cloth	20	-	-	-

(*) Nearest RAL color code, color deviation can occur.
(**) Peak power

Technical changes may be made at the discretion of the manufacturer, errors and omissions excluded.

HORN SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	loudspeaker System	woofer size (inch)	woofer cone material (CP=coated paper)	tweeter size (inch)	mounting system	closest RAL color: white (W), black (BL), gray (G)	100V transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
H10	140	-	-	190	comp driver	-	-	-	U-bracket	G: RAL9006	10 - 5 - 2.5 - 1.25	8	20	101	109	400 - 10k	ABS plastic	-	66	180°	180°
H20	200	-	-	230	comp driver	-	-	-	U-bracket	G: RAL9006	20 - 10 - 5 - 2,5	8	30	105	116	280 - 9.5k	ABS plastic	-	66	180°	180°
H30LT	-	285	207	283	comp driver	-	-	-	U-bracket	G: RAL9006	30 - 15 - 7.5 - 3.75	8	45	106	121	350 - 9k	ABS plastic	-	66	115°	165°
HM25	206	-	-	266	comp driver	-	-	-	U-bracket	G: RAL9006	25 - 20 - 10	-	-	103	117	300 - 15k	aluminium	-	66	180°	180°
MPLT32	-	250	360	290	2-way	6.5	-	1	U-bracket	G: RAL9006	32 - 16 - 8 - 4	-	-	98	113	75 - 18k	ABS plastic	-	66	105°	140°
MPLT62	-	250	360	290	2-way	6.5	-	1	U-bracket	G: RAL9006	62 - 32 - 16 - 8	-	-	98	115	75 - 18k	ABS plastic	-	66	105°	140°

PROJECTOR SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	loudspeaker System	woofer size (inch)	woofer cone material (CP=coated paper)	tweeter size (inch)	mounting system	closest RAL color: white (W), black (BL), gray (G)	100V transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
MP16	-	138	156	228	dual cone	5.25	CP	-	U-bracket	G: RAL9006	16 - 10 - 5	-	-	91	103	100 - 18k	ABS plastic	aluminium	56	180°	180°
MP26	-	170	187	270	dual cone	6.5	CP	-	U-bracket	G: RAL9006	26 - 20 - 10	-	-	92	107	90 - 19k	ABS plastic	aluminium	56	180°	180°
MPBD20	-	140	144	270	dual cone	5.25	CP	-	U-bracket	G: RAL9006	20 - 10 - 5	-	-	91	100	150 - 20k	ABS plastic	aluminium	64	80°	80°
MPH31	-	170	226	244	single cone	5.25	CP	-	U-bracket	G: RAL9006	30 - 15 - 7.5 - 4	8	30	92	107	120 - 15k	ABS plastic	-	54	180°	180°

EN54-24 CERTIFIED CM SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	loudspeaker system	woofer size (inch)	woofer cone material (poly=polypropylene, CP=CP; P=P; K=Kevlar)	tweeter size (inch)	mounting system	closest RAL color: white (W), black (BL), gray (G)	100v transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	certificate reference	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
EN-CM5T6	180	-	-	158	172	full range	5.25	CP	-	3 clamps	W: RAL9010	6 - 3 - 1.5	8	6	93.5	1013	320 - 19k	steel	steel	50	1438/CPR/0351	180°	180°
EN-CM6T6	220	-	-	137	199	full range	6.5	CP	-	3 clamps	W: RAL9010	6 - 3 - 1.5	8	6	93,9	101.7	140 - 24k	steel	steel	50	1438/CPR/0351	180°	180°
EN-CMX6T10	220	-	-	159	203	2-way	6.5	P	0.5	3 clamps	W: RAL9010	10 - 6 - 3 - 1.5	8	10	89.2	97.7	70 - 24k	steel	steel	50	1438/CPR/0351	180°	180°

EN54-24 CERTIFIED SM6 LOUDSPEAKERS

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	loudspeaker system	woofer size (inch)	woofer cone material	tweeter size (inch)	mounting system	closest RAL color	100v transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	certificate reference	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
EN-SM6T10	170	-	-	75	-	full range	6.5	P	-	2 screws	W: RAL9010	10 - 6 - 3 - 1.5	8	10	93.8	103.8	200 - 24k	steel	steel	21	1438/CPR/0352	180°	180°
EN-SMS6MT6	-	192	252	82	-	full range	6.5	P	-	2 screws	W: RAL9010	6 - 3 - 1.5	8	6	93.7	101.5	100 - 18k	steel	steel	21	1438/CPR/0354	180°	180°
EN-SMS6T6	-	192	252	82	-	full range	6.5	P	-	2 screws	W: RAL9010	6 - 3 - 1.5	8	6	94.6	102.4	110 - 15k	mdf wood	steel	54	1438/CPR/0354	180°	180°

EN54-24 CERTIFIED MUSIC PROJECTOR SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	loudspeaker system	woofer size (inch)	woofer cone material	tweeter size (inch)	mounting system	closest RAL color	100v transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	certificate reference	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
EN-MP5T20	140	-	-	183	-	full range	5.25	CP	-	2 screws	W: RAL9010	20 - 15 - 10 - 5	-	-	92.1	105.1	120 - 23k	aluminium	steel	65	1438/CPR/0356	180°	180°
EN-MPBD5T10	140	-	-	164	-	full range	2 x 5.25	CP	-	2 screws	W: RAL9010	10 - 6 - 3 - 1.5	-	-	94	104	145 - 17.5k	aliminium	steel	54	1438/CPR/0356	155°	155°

EN54-24 CERTIFIED HORN SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	loudspeaker system	woofer size (inch)	woofer cone material	tweeter size (inch)	mounting system	closest RAL color	100v transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	certificate reference	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
EN-H10	142	-	-	210	-	comp driver	-	-	-	2 screws	G: RAL7035	10 - 5 - 2.5 - 1,25	20	10	98	108	370 - 13k	ABS plastic	ABS plastic	66	1438/CPR/0355	180°	180°
EN-H15	209	-	-	272	-	comp driver	-	-	-	2 screws	G: RAL7035	15 - 7.5 - 3.75 - 1.87	20	15	100.5	112.3	400 - 12k	ABS plastic	ABS plastic	66	1438/CPR/0355	180°	180°

EN54-24 CERTIFIED SPHERE SERIES

model name	outside diameter (mm)	height (mm)	width (mm)	depth (mm)	cutout (mm)	loudspeaker system	woofer size (inch)	woofer cone material	tweeter size (inch)	mounting system	closest RAL color	100v transformer power taps (watts)	impedance (ohms)	low impedance dynamic power (watts)	SPL 1W/1m (dB)	max SPL 1m (dB)	frequency response (Hz)	construction main material	grille main material	IP rating	certificate reference	Horizontal dispersion angle (1000 Hz)	Vertical dispersion angle (1000 Hz)
EN-SPH5T16	185	-	-	157	-	full range	5.25	CP	-	2 screws	W: RAL9010	16 - 8 - 4	8	16	86.5	98.5	90 - 17k	ABS plastic	ABS plastic	35	1438/CPR/0353	180°	180°
EN-SPH6T20	260	-	-	245	-	full range	6.5	CP	-	2 screws	W: RAL9010	20 - 15 - 10 - 5 - 2.5	8	20	93.5	106.5	90 - 20k	ABS plastic	ABS plastic	35	1438/CPR/0353	180°	180°

(*) Nearest RAL color code, color deviation can occur.

Technical changes may be made at the discretion of the manufacturer, errors and omissions excluded.

MIXING AMPLIFIERS

model name	19" rack mountable	height in rack units	built-in depth (mm)	depth incl. front panel	power supply (VAC)	emergency power supply (VDC)	power consumption (max) (watts)	RMS output power 100 volts (watts)	RMS output power 8 ohms (watts)	Dynamic output power 100 volts (watts)	minimum impedance load (ohms)	output power tappings	zone outputs	mic inputs balanced	mic inputs unbalanced	mic inputs with phantom power	inputs with Phantom power	line input balanced	line input unbalanced	tone control	priority switch	vox mute	chime	emergency input	priority output (VDC)	priority levels	frequency response (in Hz)	tuner (AM, FM, DAB,....)	CD/MP3 player (CD, MP3,....)	Fan or Convection
MA30	•	2	240	250	100 - 240	-	60	30	-	30	4	100 - 70 volt - 4 Ω	1	2	1	1	1	1	3	•	2	•	•	•	24	4	60 - 20k	-	-	C
MA60	•	2	240	250	100 - 240	-	100	60	-	60	4	100 - 70 volt - 4 Ω	1	2	1	1	1	1	3	•	2	•	•	•	24	4	60 - 20k	-	-	C
MA65	•	2	278	297	115 - 230	24	170	65	65	65	8	100 - 70 volt - 8 Ω	1	3	-	-	3	0	2	•	1	•	•	-	0	2	60 - 18k	-	-	C
MA120	•	2	290	300	100 - 240	-	160	120	-	120	4	100 - 70 volt - 4 Ω	1	3	2	2	2	2	5	•	2	•	•	•	24	4	60 - 20k	-	-	C
MA125	•	2	241	261	115 - 230	24	350	125	125	125	8	100 - 70 - 50 volt - 8 Ω	1	4	-	-	4	0	4	•	1	•	•	•	24	3	40 - 22k	-	-	C
MA240	•	2	290	300	100 - 240	-	320	240	-	240	4	100 - 70 volt - 4 Ω	1	3	2	2	2	2	5	•	2	•	•	•	24	4	60 - 20k	-	-	C
MA247	•	2	371	390	230	24	800	240	120	240	4	100 - 70 - 50 volt - 8 Ω	6	4	-	-	3	3	4	•	7	•	•	•	24	6	40 - 25k	-	-	F
MA247MR	•	2	371	390	230	24	800	240	120	240	4	100 - 70 - 50 volt - 8 Ω	6	4	-	-	3	3	2	•	7	•	•	•	24	6	40 - 25k	•	•	F

POWER AMPLIFIERS

Model name	19" rack mountable	height in rack units	built-in depth (mm)	depth incl. front panel (mm)	power supply (VAC)	emergency power supply (VDC)	Power supply technology	power consumption (max) (watts)	RMS output power - 100 volts (watts)	RMS output power - 4 ohms (watts)	RMS output power - 8 ohms (watts)	RMS output power - bridged (watts)	dynamic output power - 4 ohms (watts)	minimum impedance load (ohms)	output voltage tappings (volts)	output channels	line input balanced	line input unbalanced	tone control	RS232 serial communication port	priority input contact	emergency input	priority output (VDC)	priority levels	Channel separation	Power amp topology class	frequency response (in Hz)	Fan or Convection
CHAMP-2	•	1	338	356	230	-	toroidal	500	-	2 x 180	2 x 120	350	2 x 350	2	-	2	2	2	-	-	-	-	-	-	-	G	10 - 50k	C
CHAMP-3D	•	2	345	378	230	-	toroidal	1500	-	2 x 350 + 1 x 1100 @ 2 Ω	2 x 225 + 1 x 1100 @ 2 Ω	-	2 x 370 + 1 x 1350 @ 2 Ω	2.7	-	3	2	0	•	•	-	-	-	-	-	D	10 - 24k	C
CHAMP-4	•	1	337	359	230	-	toroidal	400	-	4 x 80	4 x 60	2 x 130	4 x 125	4	-	4	0	4	-	-	-	-	-	-	-	A / B	20 - 40k	C
PA240P	•	2	343	364	230	24	toroidal	525	240	240	120	-	240	4	100 - 70 - 50 - 4 Ω	1	1	0	•	-	1	•	24	1	-	A / B	35 - 22k	F
PA2240BP	•	2	411	420	230	24	toroidal	1050	2 x 240	2 x 240	2 x 120	480	2 x 240	4	100 - 70 - 50 - 35 - 4 Ω	2	2	0	•	-	2	•	24	1	-	A / B	35 - 22k	F
REVAMP1120T	•	1	230	239	115 - 230	-	SMPS	200	120	120	60	-	120	4	100 - 70 - 50 - 35 - 4 Ω	1	1	1	-	-	-	-	-	-	> 65 db @ 1 kHz	D	50 - 20k	C
REVAMP1680	•	3	405	421	115 - 230	-	toroidal	1350	-	16 x 80	16 x 40	8 x 160	16 x 100	4	-	16	0	20	-	-	-	-	-	-	> 68 dB @ 1 kHz	D	20 - 30k	C
REVAMP2060T	•	1	230	239	115 - 230	-	SMPS	175	2 x 60	2 x 60	2 x 30	120	2 x 60	4	100 - 70 - 50 - 35 - 4 Ω	2	2	2	-	-	-	-	-	-	> 65 db @ 1 kHz	D	50 - 20k	C
REVAMP2120T	•	1	230	239	115 - 230	-	SMPS	300	2 x 120	2 x 120	2 x 60	240	2 x 120	4	100 - 70 - 50 - 35 - 4 Ω	2	2	2	-	-	-	-	-	-	> 65 db @ 1 kHz	D	50 - 20k	C
REVAMP2150	•	1	230	239	115 - 230	-	SMPS	400	-	2 x 150	2 x 80	300	2 x 165	4	-	2	2	2	-	-	-	-	-	-	> 70 dB @ 1 kHz	D	20 - 22k	C
REVAMP2250	•	1	230	239	115 - 230	-	SMPS	600	-	2 x 250	2 x 125	500	2 x 350	4	-	2	2	2	-	-	-	-	-	-	> 74 dB @ 1 kHz	D	10 - 24k	C
REVAMP2600	•	2	334	340	230	-	toroidal	1840	-	2 x 600	2 x 300	-	2 x 840	4	-	2	2	2	-	-	-	-	-	-	> 67 dB @ 1 kHz	H	10 - 24k	F
REVAMP4100	•	1	230	239	115 - 230	-	SMPS	500	-	4 x 100	4 x 50	2 x 200	4 x 110	4	-	4	4	8	-	-	-	-	-	-	> 65 db @ 1 kHz	D	20 - 22k	C
REVAMP4120T	•	2	330	338	115 - 230	-	SMPS	525	4 x 120	4 x 120	4 x 60	2 x 240	4 x 120	4	100 -70 - 50 - 35 - 4 Ω	4	4	4	-	-	-	-	-	-	> 68 dB @ 1 kHz	D	50 - 20k	F
REVAMP4240T	•	2	330	338	115 - 230	-	2 x SMPS	1050	4 x 240	4 x 240	4 x 120	2 x 480	4 x 240	4	100 - 70 - 50 - 35 - 4 Ω	4	4	4	-	-	-	-	-	-	> 68 dB @ 1 kHz	D	50 - 20k	F
REVAMP8250	•	2	330	338	115 - 230	-	SMPS	2200	-	8 x 250	8 x 125	4 x 500	8 x 350	4	-	8	8	8	-	-	-	-	-	-	> 60 dB @ 1 kHz	D	20 - 20k	F

Technical changes may be made at the discretion of the manufacturer, errors and omissions excluded.

Model name	19" rack mountable	height in rack units	built-in depth (mm)	depth incl. front panel (mm)	power supply (VAC)	power consumption (max) (watts)	zone outputs	output level balanced (dB)	SPDIF output	signal to noise level SNR (dB)	total harmonic distortion TBH (%)	crosstalk (dB)	music level control	Mic level control	VCA level control	source selection per zone	Mic inputs balanced	Mic inputs unbalanced	inputs with Phantom power	Phantom power voltage (volts)	noise gate on mic	line input balanced	line input unbalanced	line input SPDIF	tone control	RS232 (serial communication port)	wall panel controls	priority input contact	vox mute	chime	emergency input	priority output contact (VDC)	priority levels	frequency response (in Hz)
PM1122	•	1	230	249	115 - 230	24	2 stereo	6	-	>93	<0.008	>70	•	•	•	•	5	0	5	20	•	5 mono	4 stereo	-	•	optional	•	•	-	•	•	24	4	20 - 22K
PM7400MKII	•	1	259	277	230	18	2 stereo	-	-	>90	<0.1	>70	•	•	-	-	2	0	2	15	-	1 stereo	5 stereo	-	•	-	-	-	-	•	•	-	1	20 - 25K
PREZONE1	•	2	290	305	100 - 240	30	2 stereo	-	-	>97	<0.2	>70	•	•	-	-	2	0	2	48	-	-	4 stereo	-	•	-	-	-	-	-	•	•	-	3	20 - 25K
PREZONE2	•	2	290	305	100 - 240	37	2 stereo	-	-	>92	<0.1	>70	•	•	-	•	2	0	2	48	-	1 stereo	4 stereo	-	•	-	•	•	-	•	•	24	4	20 - 25K

Model name	19" (483 mm wide) rack mounting	Height in rack units	built-in depth (mm)	depth incl. Front panel (mm)	power supply (VAC)	power consumption (max) (watts)	zone outputs	output level unbalanced (dB)	SPDIF output	signal to noise level SNR (dB)	total harmonic distortion TBH (%)	crosstalk (dB)	music level control	Mic level control	VCA level control	source selection per zone	Mic inputs balanced	inputs with Phantom power	Phantom power voltage volts	selectable input dynamics	selectable output dynamics	line input balanced	line input unbalanced	line input SPDIF (stereo)	tone control	RS232 (serial communication port)	wall panel controls	priority input contact	maximum qty paging mics	chime	emergency input	priority output contact	priority levels	frequency response (in Hz)	FM tuner	RMS output power 8 ohms (watts)	dynamic output power (watts)	minimum impedance load (ohms)	ethernet control	Fan or Convection
AC12.8SET	•	1	308	313	115 - 230	75	8	5	•	>100	<0.005	>95	•	•	•	•	6	6	24	•	•	6	6	1	•	•	•	-	120	•	•	•	8	20 - 30K	-	-	-	-	-	-
AUDIOCONTROL12.8	•	1	308	313	115 - 230	75	8	5	•	>100	<0.005	>95	•	•	•	•	6	6	24	•	•	6	6	1	•	•	•	-	120	•	•	•	8	20 - 30K	-	-	-	-	-	-
AUDIOSYSTEM8.8	•	1	308	320	115 - 230	150	8	10	-	>95	<0.06	>83	•	-	-	•	0	0	-	-	-	0	8	-	•	•	•	•	3	•	•	-	2	20 - 30K	4	8 x 30	8 x 45 @ 8Ω	6	•	F
ZONE4	•	1	196	205	115 - 230	25	4	0	-	>90	<0.02	>75	•	•	-	•	3	2	18	-	-	0	4	-	•	•	•	•	4	-	•	•	2	20 - 30K	-	-	-	-	-	-

Model name	19" rack mountable	height in rack units	built-in depth (mm)	depth incl front panel (mm)	power supply volts (VAC)	power consumption (max) (watts)	RMS output power - 100 volts (watts)	RMS output power - 4 ohms (watts)	RMS output power - 8 ohms (watts)	dynamic output power (watts)	minimum impedance load (ohms)	output power tappings	zone outputs	Mic inputs balanced	Mic inputs unbalanced	line input balanced	line input unbalanced	tone control	RS232 (serial communication port)	priority switch	priority levels	frequency response (in Hz)	Fan or Convection
CONCEPT1	•	2	293	314	230	200	-	2 x 80	2 x 60	2 x 80 @ 4 Ω	4	-	2	1	0	0	4	•	•	2	1	-	C
CONCEPT1T	•	2	293	314	230	200	2 x 60	-	-	2 x 60 @ 100 V	167	100 V	2	1	0	0	4	•	•	2	1	-	C
VINCI2125	-	-	-	435	230	300	-	2 x 125	2 x 80	2 x 160 @ 4 Ω	4-8	-	1	0	0	0	4	-	-	1	0	10 - 60K	C

Technical changes may be made at the discretion of the manufacturer, errors and omissions excluded.

Model name	19" rack mountable	Height in rack units	built-in depth (mm)	depth incl. front panel (mm)	power supply (VAC)	FM tuner	AM tuner	DAB Tuner / DAB +	internet radio	CD	USB	SD card	supported file format	balanced outputs	unbalanced outputs	other / digital outputs	IR remote included	RS232 control
PC1000RMKII	•	1	303	314	230	-	-	-	-	•	32 GB up to 9999 songs	32 GB up to 9999 songs	MP3, WMA	2 x XLR	1 x RCA	1 x optical + 1 x coaxial	•	•
PCR3000RMKIII	•	1	310	320	230	•	-	•	-	•	32 GB up to 9999 songs	32 GB up to 9999 songs	MP3, WMA	-	2 x RCA + COMBI RCA	1 x optical + 1 x coaxial	•	•
PMR4000RMKIII	•	1	312	330	230	•	-	-	•	-	128 GB no file qty limit	-	MP3, WMA, FLAC, WAV	-	1 x RCA	1 x optical	•	-
PR1000R	•	1	249	270	230	•	•	-	-	-	-	-	-	-	1 x RCA	-	•	•
PR4000R	•	1	249	270	230	•	-	-	-	-	-	-	-	-	4 X RCA	-	•	•

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CONCEPT1

CONCEPT1T

AUDIOCONTROL12.8

AUDIOCONTROL12.8SET

AUDIOSYSTEM8.8

PREZONE1

PREZONE2

PM1122

PM7400MKII

ZONE4

MA240

MA120

MA60

MA30

MA247MR

MA247

MA125

MA65

REVAMP2150

REVAMP2250

REVAMP2600

REVAMP4100

REVAMP8250

REVAMP2060T

REVAMP1120T

REVAMP2120T

REVAMP4120T

REVAMP4240T

PA240P

PA2240BP

CHAMP-2

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APDO

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PR4000R

PR1000R

PCR3000RMKIII

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