

DWT-B03R

DWX Series digital wireless
microphone bodypack
transmitter



Overview

Superb audio quality and stable operation in a wide range of environments

The third generation of Sony's acclaimed DWX series, this high-performance digital wireless bodypack transmitter is an ideal choice for live sound applications including theater and concerts, as well as studio-based TV production and ENG/EFP.

Light and compact (27% smaller than its DWT-B01N predecessor), the DWT-B03R features a tough magnesium body that's resistant to rain, spray, and sweat.

Sony's advanced digital audio processing, encryption and RF transmission technologies assure secure, stable transmission and reception of very high-quality audio with low latency.

The DWT-B03R is ideal for use in large-scale multi-channel productions, supporting up to 21 simultaneous channels per 8 MHz TV band or up to 16 simultaneous channels per 6 MHz TV band.

The DWT-B03R is compatible with Sony Wireless Studio

control software for PC (Ver 5.0 or later), allowing flexible remote operation. Remote control of up to 82 transmitters is possible using the Cross Remote™ function combined with the RMU-01 remote control unit (available separately).

Features

Small, lightweight and robust magnesium body

27% smaller than its DWT-B01N predecessor

Very high quality wireless audio

Advanced Sony codec design assures superb audio quality, with a high dynamic range of more than 106 dB, plus a wide frequency response of 20 Hz - 22 kHz and excellent transient response.

Low-latency audio

Advanced Sony codec design reduces audio latency to as little as 1.2 msec*

*DWT-B03R and DWR-R03D total delay with codec mode2 and analog output

Rain, sweat, and spray-proof*

Ideal for musicals, film production, or outdoor operation, the DWT-B03R features a tough magnesium body with a moisture-resistant housing gasket and splash-proof connector that resists rain, sweat, and spray.

*IPX4/IPX5 rating based on standard testing by Sony.

Long battery life

Perform for longer with the high-capacity rechargeable NP-BX1 Li-ion battery (approx. 7 hours). The DWT-B03R is compatible with the optional BC-DWX1 Dual Charger.

148MHz* wideband

Contributes to the reduction of equipment and burden of maintenance.

*depends on version

High density multi-channel operation

Ideal for large-scale productions, the DWT-B03R supports high-density simultaneous multi-channel operation: 375 kHz spacing accommodates up to 21 channels per 8 MHz TV band or up to 16 simultaneous channels per 6 MHz TV band.

AES 256bit encryption

For secure encrypted transmission

Easy, versatile remote control

The DWT-B03R is compatible with Sony's Wireless Studio control software for PC (Version 5.0 or later). Up to 82 transmitters can be controlled using the Cross Remote™ function and RMU-01 remote control unit (available separately).

Selectable RF output power

RF output power level is selectable (2 mW/10 mW/25 mW) to prioritize stable multi-channel or long distance operation.

OLED display

The easy-to-read OLED display gives confirmation of channel number, RF signal status, user name, user group and lock status.

Phase reverse mode

It can change the audio phase by the menu.

User setting memory

Settings can be easily stored to the memory of DWT-B03R.

Setting lock

Transmitter settings can be locked to prevent accidental operation during performance.

Transmitter/receiver identifying function

Paired transmitters/receivers are identified by blinking display.

Small three-pin connector with lock

Specifications

| Specifications | |
|------------------------------|--|
| Wireless Interface | WiDIF-HP |
| Oscillator Type | Crystal-controlled PLL Synthesizer |
| Antenna Type | $\lambda/4$ flexible wire |
| Type of Emission | G1E or G1D |
| Carrier Frequencies - UC7 | 470.125 MHz to 607.875 MHz, 614.125 MHz to 615.875 MHz, 25 kHz steps |
| Carrier Frequencies - CE7 | L: 470.025 MHz to 614.000 MHz, 25 kHz steps H: 566.025 MHz to 714.000 MHz, 25 kHz steps |
| Carrier Frequencies - J | L: 470.150 MHz to 614.000 MHz, 25 kHz steps MH: 566.025 MHz to 713.850 MHz, 25 kHz steps G: 1240.150 MHz to 1251.825 MHz, 1253.175 MHz to 1259.850 MHz, 25 kHz steps |

| | |
|-----------------------------------|--|
| | B: 806.125 MHz to 809.750 MHz, 125 kHz steps |
| RF Power | 2 mW/10 mW/25 mW (e.r.p) selectable |
| Input Connector | Small three-pin connector with lock |
| Reference Input Level | MIC: -60 dBV (-58 dBu), 1 kHz (at 0-dB attenuator level) / LINE: +4 dBu, 1 kHz |
| Maximum Input Level | MIC: -22 dBu (with 0 dB attenuator), LINE: +24 dBu |
| Audio Attenuator Adjustment Range | 0 to 48 dB (3 dB steps, MIC input mode only) |
| Frequency Response | Transmission: 20Hz to 22kHz (typical) |
| Dynamic Range | 106 dB typical (A-weighted, T.H.D=1%) |
| Distortion (T.H.D) | MODE1, MODE2: 0.03% or less, MODE3: 0.3% or less |
| Audio Delay* | MODE1: 0.8 msec (total: 2.7 msec)/MODE2: 0.7 msec (total: 1.2 msec)/MODE3: 1.8 msec (total 3.7 msec) *Analog output |
| Wireless Remote Control | Cross Remote (2.4-GHz IEEE802.15.4 compliant) |
| Display | OLED |

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|-------------------------------|---|
| Power Requirements | DC 3.6 V (with Rechargeable Battery Pack: NP-BX1) |
| Battery Operating Time | Approx. 7 hours with Sony's NP-BX1 at 77°F (25°C) at 10-mW output (with the wireless remote control function off and DIMMER MODE set to AUTO OFF) |
| Operating Temperature | 0°C to 50°C / 32°F to 122°F |
| Storage/Transport Temperature | -20°C to +60°C / -4°F to +140°F |
| Dimensions (W x H x D) | Approx. 53 x 60 x 17 mm (60 x 60 x 17 mm with the projection parts) (excluding the antennas) |
| Mass | Approx. 99 g |
| Supplied Accessories | Belt Clip (1) Carrying case (1) NP-BX1 (1) Scribble sheet (1) CD-ROM (1) |

Related products



ECM-77LM

Miniature omni-directional electret condenser



BC-DWX1

Dual battery charger for DWT-B03R wireless



DWR-R03D

DWX Series 2-channel digital wireless receiver



ECM-90LM

Electret condenser microphone

microphone

transmitter



DWR-S03D

DWX Gen3 2-
channel digital
wireless slot-in
receiver

Gallery

