

## DWT-B30

DWX Gen3 digital wireless  
bodypack transmitter



### Overview

The compact DWT-B30 bodypack transmitter is an ideal choice for live sound applications including theater and concerts, as well as studio-based TV production and ENG/EFM.

The DWT-B30 is part of Sony's third generation DWX series digital wireless microphone system that combines advanced digital technologies, analogue microphone expertise, wireless audio transmission technologies and an enviable reputation for stability.

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 transmitter operates with a wide bandwidth up to 148 MHz (depending on region), and the high density 375 kHz interval channel plan enables simultaneous multi-channel operation, increasing the probability of finding unoccupied frequencies in congested metropolitan areas.

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

### **Superb audio quality wireless transmission and reception**

High quality 24-bit digital audio is transmitted and received within a specific frequency bandwidth meeting Wireless Communication Regulations for each country. Using Sony's original codec design based on years of audio engineering expertise, the DWX system delivers a wide dynamic range of more than 106 dB, wide frequency response of 20 Hz to 22 kHz, and excellent transient response.

### **Cross Remote™ monitor/control functions**

Input attenuation, RF frequency selection, RF power output, Audio Low-pass cut-off frequency and transmitter Sleep Mode can all be controlled remotely from the digital wireless receiver.

### **Wide bandwidth**

Up to 148 MHz bandwidth (depending on region) enables flexible operation with wide channel selection.

### **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.

### **Four codec modes for wide range of applications**

MODE1: Compatible with first generation DWX-series devices.

MODE2: Prioritises short latency times while maintaining transmission stability and high audio quality.

MODE3: Additional signal processing suppresses noise caused by unexpected pulse interference.

MODE4: Prioritises audio quality while maintaining transmission stability and low delay time.

## **Low audio latency and high quality sound**

Ideal for live applications, the system achieves an extremely low audio latency time of 1.2 msec, with a 96kHz sampling rate for very high quality sound (codec MODE2, with DWT-B03R or DWT-B30).

## **Low noise head amplifier**

Low noise head amplifier achieves -128dBu noise floor.

## **Flexible audio input control**

48dB at 3dB steps audio attenuation supported. Line / Microphone input supported. Transmitter audio attenuation can be controlled from receiver side using Sony wireless remote control system.

## **Stable, securely encrypted transmission and reception**

The system's improved digital modulator ensures highly stable wireless transmission that is extremely tolerant to unwanted interference. In addition, data transmission and reception with AES 256-bit encryption minimises the risk of interception to assure highly secure transmission and reception.

## **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.

## **User settings memory**

User settings can be easily stored and loaded.

### USB for power supply

A USB DC power source can be used for long-term operation or as an emergency power supply.

### Easy-to-read dot-matrix OLED display

The quick-response OLED (Organic Light-Emitting Diode) display ensures clear and accurate real-time display of operational information.

### Flexible battery options and long battery life

The DWT-B30 can be operated with a variety of AA-type batteries including alkaline, lithium or NiMH. Alkaline batteries allow up to 6.5 hours operation.

## Specifications

| GENERAL             |   |
|---------------------|---|
| Oscillator Type     | Crystal-controlled PLL synthesizer  |
| Antenna Type        | 1/4 λ wavelength wire antenna   |
| Carrier Frequencies | UC7 : 470.125 MHz to 607.875 MHz, 614.125 MHz to 615.875 MHz (UHF-TV channels 14 to 36, 38)<br>L/CE7 : 470.025 MHz to 614.000 MHz (UHF-TV channels 21 to 38)<br>H/CE7 : 566.025 MHz to 714.000 MHz (UHF-TV channels 33 to 51)<br>L/J : 470.150 MHz to 614.000 MHz (UHF-TV channels 13 to 36)<br>MH/J : 566.025 MHz to |

|                                   |   |
|-----------------------------------|---|
|                                   | 713.850 MHz (UHF-TV channels 29 to 52)<br>G/J: 1240.150 MHz to 1251.825 MHz, 1253.175 MHz to 1259.850 MHz, 25 kHz steps |
| RF Output Power                   | UC7, CE7, L/J, MH/J, G/J: 2 mW/10 mW/25 mW (e.r.p) selectable   |
| Input Connector                   | UC7, J: Sony 4-pin (SMC9-4S) (female)<br>CE7: Small three-pin connector with lock                                       |
| Reference Audio Input Level       | MIC: -60 dBV (-58 dBu), 1 kHz (at 0-dB attenuator level) /<br>LINE: +4 dBu, 1 kHz                                       |
| Maximum Audio 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                | 20Hz to 22kHz (typical)   |
| Dynamic Range                     | 106 dB typical (A-weighted, T.H.D=1%)   |
| Distortion (T.H.D)                | MODE1, MODE2, MODE4: 0.03% or less<br>MODE3: 0.3% or less   |
| Audio Delay                       | MODE1: 0.8 msec/ MODE2: 0.7 msec/<br>MODE3: 1.8 msec/ MODE4: 0.7 msec   |

|                         |  |
|-------------------------|--|
| Wireless Remote Control | Cross Remote (2.4-GHz IEEE802.15.4 compliant)  |
| Display                 | OLED   |
| Power Requirements      | DC 3.0 V (two LR6/AA size alkaline batteries)<br>DC 5.0 V (supplied from USB connector)  |
| Battery Life            | Approx. 6.5 hours with Sony's AA-size alkaline (LR6) batteries at 25°C(77°F) 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 Temperature     | -20°C to +60°C / -4°F to +140°F  |
| Dimensions              | Approx. 63 x 17 x 73 mm (2 1/2 x 11/16 x 2 7/8 in) (W x H x D) (excluding the antenna)   |
| Mass                    | Approx. 125 g (including batteries)  |

## Notes

This product is available in a variety of different frequency range models to suit the regulatory requirements of

## Important Note

individual countries. Please contact your Sony reseller for more information on which product will best suit your specific needs.

## Related products



### DWR-S03D

DWX Gen3 2-channel digital wireless slot-in receiver



### DWR-R03D

DWX Series 2-channel digital wireless receiver



### DWR-R02DN

DWX series digital wireless receiver



### DWR-S02DN

Digital wireless receiver

## Gallery

