



DWT-P01

Digital Wireless Microphone Transmitter

Sony is proud to introduce a digital wireless microphone system that offers high-quality full-digital operation and enhanced system performance - a perfect match for high-quality ENG/EPF applications.

The system, which consists of the DWT-B01 belt-pack transmitter, DWT-P01 XLR plug-on transmitter and the DWR-S01D dual portable receiver, delivers excellent-quality wireless transmission of 24-bit/48-kHz digital audio.

Thanks to the Sony original codec, it realises low-latency, secure, and reliable operation. In addition, the system allows for an increase of up to 60% in the number of simultaneous multi-channel operations* compared to conventional analogue systems, which gives users enhanced system flexibility.

With its excellent audio quality and operational flexibility, the Sony digital wireless microphone system opens up a whole new world of audio applications.

Features

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

Flexible battery options

The DWT-P01 is able to accept a variety of AA type battery, such as Alkaline, Lithium, NiMH etc.

Selectable output power

Various output powers are selectable to provide the user with options for stable multi-channel or long distance operation. (1/10/50 mW)

Versatile display using organic LED display

A variety of information is obtained at a glance from the new OLED display panel, such as the reception channel, Audio and RF signal status, user name, user group, Lock etc.

Wireless remote control

A duplex wireless remote control system is supported. The DWT-P01 is able to be controlled via the DWR-S01D receiver. Settings that are changed on the receiver are automatically sent and changed on the paired DWT-P01 transmitter.

Wide operating frequency ranges

DWT-P01 can operate over a 72Mhz frequency band. (8 x TV Channels).

Benefits

Superb Quality Wireless Transmission & Reception

The digital wireless microphone system transmits & receives high-quality 24-bit/48-kHz digital audio in a specific frequency bandwidth that meets

the Wireless Communication Regulations of each country. Utilising the Sony original codec based on Sony's years of experience in engineering audio products, the system delivers a wide dynamic range of more than 106 dB, a wide frequency response of 20 Hz to 20 kHz, and an excellent transient response.

Stable and Secure Transmission & Reception

Incorporating the newly developed digital modulator, the digital wireless microphone system allows highly stable wireless transmission that is extremely tolerant to unwanted interference. In addition, the system transmits & receives digitally modulated and encrypted data to minimize the risk of interception, providing highly secure transmission & reception.

Simultaneous Multi-channel Operation.

The digital wireless microphone system allows for large-scale multi-channel operations. Thanks to the newly developed digital modulator, the system realises an intermodulation-free, equally spaced channel allocation. The digital wireless transmission technology used in this system enables a significant increase in the number of simultaneous operations in comparison with current analogue wireless systems. For example, up to 16 channels of simultaneous operation is possible in an 8-MHz operating band.

Extreme user flexibility

The DWT-P01 has an industry standard XLR connector. This allows the user to transform any XLR microphone into a digital wireless transmitter. The DWT-P01 is able to provide +48 volts phantom power to the selected mic if required.

Technical Specifications

--Transmitting section--

Oscillator	Crystal controlled PLL synthesizer
Carrier frequency range	798 to 822 MHz (TV 62 to 64 channels) 838 to 862 MHz (TV 67 to 69 channels)
Channel step	25 kHz
RF power output	1 mW/10 mW/50 mW (e.r.p.) selectable
Occupied RF bandwidth	192 kHz
Audio delay	1.5 ms

--Audio section--

Maximum input level	MIC -22 dBu (with 0 dB attenuator) LINE +24 dBu
Audio attenuator adjustment range (pad)	0 to 48 dB (3-dB steps, MIC input mode only)
Input connector	XLR-3-11C (female) (x1)
Input impedance	4 k/ohms or more

--General--

Operating voltage	DC 3.0 V, (two LR6 AA-size alkaline batteries)
Battery life	Approx. 3.5 hours at 10 mW output (at 25°C (77°F), with Sony LR6 AA-size alkaline batteries)
Dimensions (W x H x D)	Approx. 44 x 78 x 44 mm (1 3/4 x 3 1/8 x 3/4 inches) excluding projection
Mass	Approx. 245 g (9 oz) including batteries

Accessories

Stage and Studio (F-series)



F-112

Dynamic Microphone