

DWT-P01N

Digital wireless microphone plug-on transmitter



Overview

High quality wide-band transmitter with three codec modes providing short audio latency and more reliable transmission

The DWT-P01N XLR plug-on transmitter forms part of the DWX N series digital wireless microphone system that offers high-quality full-digital operation shorter audio latency and more reliable RF transmission mode - a perfect match for high-quality ENG/EFP applications.

The DWX N series system delivers superb-quality wireless transmission of 24-bit digital audio. Thanks to its improved codec and new hardware, it can provide higher sound quality with lower audio latency.

NOTE: This model is available in multiple versions to support the widest possible range of operating frequencies. Please refer to product specifications for more information.

- **Three codec modes designed for wide variety of applications**

MODE1 for compatibility with DWX series applications, MODE2 with higher quality sound and low latency ideal for theatre, tour and broadcast applications, and MODE3 with more reliable RF transmission ideal for speech applications.

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

MODE2 provides higher quality sound with a 96kHz sampling rate and very low audio latency of 1.5 msec*.

- **More reliable RF transmissions expands the operation range**

MODE3 operation optimised for reliable transmission by preventing drop out by interference with additional error correction.

- **Compatibility with DWX series**

MODE1 operation provides the same high quality, reliability and audio latency as the previous DWX series version.

NOTE:

*Analogue out, 2.5 msec for digital out

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-P01N 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-B01N is able to be controlled via the DWR-S02DN receiver. Settings that are changed on the receiver are automatically sent and changed on the paired DWT-P01N transmitter.

- **Wide operating frequency ranges**

DWT-P01N can operate over a 72Mhz frequency band.

Technical Specifications

Transmitting section	
● Oscillator	Crystal controlled PLL synthesizer
● Carrier Frequencies: Americas (depending on model)	UC14: UHF-TV channels 14-25 (470 - 542 MHz) UC30: UHF-TV channels 30-36 (566-608 MHz) and 38-41 (614-638 MHz) UC42: UHF-TV channels 42-51 (638-698 MHz)
● Carrier Frequencies: Europe, Middle East, Africa, Australia, New Zealand (depending on model)	CE21: UHF-TV channels 21-29 470 MHz to 542 MHz CE33: UHF-TV channels 33-40 566 MHz to 630 MHz CE42: UHF-TV channels 42-50 638 MHz to 710 MHz
● Channel step	25 kHz
● RF power output	1 mW/10 mW/50 mW (e.r.p.) selectable
● Occupied RF bandwidth	192 kHz or less
● Audio delay	Approx. MODE1: 1.5 msec (total: 3.4msec) /MODE2: 1.0 msec (total: 1.5msec)/MODE3: 2.1 msec (total 4.0msec)

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	4.7 k/ohms or more

General	
● Operating voltage	DC 3.0 V, (two LR6 AA-size alkaline batteries)
● Battery life	Approx. 5 hours (at 25 °C (77 °F), 10-mW output using Sony LR6 (AA)-size alkaline batteries with CODEC MODE set to MODE1, the wireless remote control function off, DIMMER MODE set to AUTO OFF, and +48 V set to OFF)
● 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
● Supplied Accessories	Soft case (1) Spare battery case (1) USB adapter cable (1) CD-ROM (1) Before Using this Unit (3)

Notes	
● *1	0dBμV= 1μV EMF, 0dBu=0.775Vrms, 0dBV=1V, 0dB SPL=2x10 ⁻⁵ Pa
● *2	The values for dimensions are approximate.

Accessories Analogue



BATC-2AA
Battery Case