SONY

DWT-P01N

Digital wireless microphone plug-on transmitter

Overview

The DWT-P01N XLR plug-on transmitter forms part of the DWX 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 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.

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.

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

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

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

The extra wide switching bandwidth covers a wide area, with a wide choice of channels available across multiple models—please refer to product specifications for more information.
14UC: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25)
30A UC: 566.125 MHz to 607.875 MHz (UHF-TV channels 30 to 36), 25 kHz steps
42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42 to 51), 25 kHz steps (not

© 2004 - 2020 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

available in the US or Canada)

The DWT-P01N/30 and DWT-P01N/42 models operates in portions of the 617-652 MHz or 663-698 MHz frequencies. As of 2017, these frequencies are being transitioned by the Federal Communications Commission (FCC) to the 600 MHz service to meet increasing demand for wireless broadband services. Users of these models must cease operating on these frequencies no later than July 13, 2020. In addition, users may be required to cease operations before that date if their operations could cause harmful interference to a 600 MHz service licensee's wireless operations on these frequencies. For more information, contact the FCC.

For customers in Canada, please consult ISED’s Spectrum Advisory Bulletin for recent information related to the 600 MHz band transition.

Features

Low noise head amplifier achieves -128dBu noise floor.

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.

The DWT-P01N is able to accept a variety of AA type battery, such as Alkaline, Lithium, NiMH etc.

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

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.

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.

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

Specifications

Transmitting section	
Oscillator	Crystal controlled PLL synthesizer
Carrier Frequencies: Americas (depending on model)	14UC: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) 30A UC: 566.125MHz to 607.875MHz (UHF-TV channels 30-36) 25kHz steps 42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51), 25 kHz steps (not available in US or Canada)

© 2004 - 2020 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

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

© 2004 - 2020 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

*2	The values for dimensions are approximate.

Related products

DWR-S03D

DWX Gen3 2-channel digital wireless slot-in receiver

DWR-R03D

DWX Series 2-channel digital wireless receiver

© 2004 - 2020 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.

Gallery

© 2004 - 2020 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. The values for mass and dimension are approximate. All trademarks are the property of their respective owners.