

DWR-R02D

Digital wireless receiver



Overview

Rack-mountable receiver with wide bandwidth

The DWR-R02D is a two-channel rack-mountable (1U-size) receiver that, as part of the DWX Series digital wireless microphone system, works seamlessly with Sony digital wireless transmitters, such as the DWT-B01/E, and digital wireless microphones, such as the DWM-02. The receiver operates with a wide bandwidth up to 72Mhz, giving users a higher probability to find unoccupied frequencies in congested metropolitan areas.

Ideal for a wide range of applications

Ideal for a range of applications including live concert, theatre, opera, broadcast studio, news gathering, field production, and sound recording, the DWR-R02D offers a truly digital wireless microphone platform. It combines advanced digital technologies, analogue microphone expertise, wireless audio transmission technologies, and an enviable reputation for stability.

Features

Compatible with all DWX Series transmitters and microphones

Part of the DWX Series digital wireless microphone system, the DWR-R02D works seamlessly with Sony's digital wireless

transmitters, such as the DWT-B01/E, and digital wireless microphones, such as the DWM-02.

Transmits high quality digital audio

The digital wireless microphone system transmits and receives high-quality 24 bit/48 kHz digital audio in a specific frequency bandwidth. Using Sony's original WiDIF-HP codec, the system delivers a wide dynamic range of more than 106 dB, a wide frequency response of 20 Hz to 22 kHz, and an excellent transient response.

Secure and stable wireless transmission

The DWX Series enables highly stable wireless transmission that is extremely tolerant to unwanted interference. In addition, the system transmits and receives digitally modulated and encrypted data to minimise the risk of interception, providing highly secure transmission and reception.

Supports a variety of output functions

The DWR-R02D supports electric guitar and bass amplifier connections by TS Phone output with ATT control function. It includes XLR and BNC output for AES digital output, and GND lift function for analogue BAL output.

Flexible power options

The 100V to 240V AC and 12V DC power enables users to operate in a global power environment.

Remote control of transmitter functions from the receiver

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

This product is available in a variety of different frequency range models to suit the regulatory requirements of individual countries. Please contact your Sony reseller for more information on which product will best suit your specific needs.

Tuner Section

Receiving Channels: Americas	<p>UC14: UHF-TV chs 14- 25 (72 MHz bandwidth). 470 MHz to 542 MHz.</p> <p>UC30: UHF-TV chs 30–36 and chs 38–40 (60 MHz bandwidth). 566 MHz to 607 MHz and 615 MHz to 638 MHz.</p> <p>UC42: UHF-TV chs 42-50 (66 MHz bandwidth). 638 MHz to 698 MHz</p>
Receiving Channels: Europe, Middle East, Africa, Australia, New Zealand	<p>CE33: UHF-TV chs 33-40 566 MHz to 630 MHz (Not available in New Zealand)</p> <p>CE42*1: UHF-TV chs 42-50 638 MHz to 710 MHz</p> <p>CE51: UHF-TV chs 51-59 710 MHz to 782 MHz (Not available in Australia or New Zealand)</p>

Receiving Channels: China	CN38: 638 (MHz to 710 MHz)
------------------------------	----------------------------

Receiving Section

Receiver Type	Rackmount (2 channels)
---------------	------------------------

Transmission Method	WiDIF-HP (×2)
---------------------	---------------

Reception Type	Space diversity
----------------	-----------------

Circuit System	Double superheterodyne
----------------	------------------------

Local Oscillators Type	Crystal-controlled PLL synthesizer
------------------------	------------------------------------

Antenna Type	Detachable
--------------	------------

RF Sensitivity	20 dB μ or less (at bit error rate = 1×10^{-5} , no decline in S/N ratio)
----------------	--

Antenna Section

Input Connector	BNC-R, 50 Ω (×2)
-----------------	-------------------------

Supply Voltage for Booster	0 V/9 V/12 V
-------------------------------	--------------

Attenuator	0 dB/5 dB/10 dB
------------	-----------------

Cascaded Output	BNC-R, 50 Ω (×2)
-----------------	-------------------------

Audio section

Dynamic range	106 dB or more (A-weighted)
Distortion (T.H.D)	0.03% or less
Audio delay	1.9 ms (analog output) 1.9 ms (digital output)
Analog Output	BAL: XLR-3-32 (male), 47 Ω or less ($\times 2$) UNBAL: $\phi 6.3$ mm (1/4 inch) mono jack, 220 Ω or less ($\times 2$) Output level (0 dBu = 0.775 Vrms) BAL: -22 dBu maximum/-58 dBu reference (when MIC output) BAL: +24 dBu maximum/-12 dBu reference (when LINE output) UNBAL: +8 dBu maximum/-28 dBu reference (when UNBAL ATT =0 dB)
Digital Output	XLR-3-32 (male), 110 Ω ($\times 1$) BNC-R, 75 Ω ($\times 1$) Reference output level (0 dBu = 0.775 Vrms) -36 dBFs

Other Equipment

Headphone Output	$\phi 6.3$ mm (1/4 inch) stereo jack
------------------	--------------------------------------

Word Sync	Input connector: BNC-R with a 75 Ω termination switch Output connector: BNC-R External Word Sync: 32 kHz to 96 kHz
-----------	---

Wireless Remote Control	Cross Remote (2.4-GHz IEEE802.15.4 compliant)
-------------------------	---

LAN Connector	RJ-45 modular jack 100BASE-TX: IEEE802.3u compliant 10BASE-T: IEEE802.3 compliant
---------------	---

Display	OLED
---------	------

General

Power Requirements	AC: 100 to 240 V 0.4 A or less DC: 12 V 1.6 A or less
--------------------	--

Power Consumption	AC: 24 W DC: 19.2 W
-------------------	------------------------

Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
-----------------------	------------------------------------

Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
---------------------	--

Without protrusions:
406 x 44 x 335

Dimensions (unit: mm (inches))*2 (16 x 1 3/4 x 13 1/4)

With protrusions:
482 x 44 x 335
(19 x 1 3/4 x 13 1/4)

Mass

Approx. 3.6 kg (7 lb 15 oz) (including the attached antenna)

Supplied accessories

Whip antenna (2)
Antenna mount with BNC connector (2)
AC power cord (1)
Foot (4)
Operating Instructions (1)
Operating Instructions (CD-ROM) (1)
PC control software (CD-ROM) (1)
Warranty card (US models only) (1)

Notes

*1

Australia only: 694MHz - 710MHz is blocked by channel plan software

*2

The values for dimensions are approximate

Related products



DWT-B01N

DWX series digital wireless body-pack transmitter body-pack



DWM-02N

DWX series digital wireless microphone with interchangeable head mechanism



DWR-R02DN

DWX series digital wireless receiver



AN-57

Ground plane antenna

Gallery

