

# DWR-S02D

Digital wireless receiver



## Overview

### **Portable slot-in receiver for Sony camcorders**

The DWR-S02D is a two-channel portable slot-in receiver for Sony camcorders 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 72 MHz bandwidth (depending on region), giving users a higher probability of finding unoccupied frequencies in congested metropolitan areas.

Ideal for a range of applications including live concert, theatre, opera, broadcast studio, news gathering, field production, and sound recording, the DWR-S02D 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-S02D works seamlessly with Sony's digital wireless transmitters, such as the DWT-B01, 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**

As well as analogue audio output, the DWR-S02D comes equipped with three AES/EBU outputs up to 24 bit/96 kHz. A Word Sync input/output is also available for an external word sync signal of 32 kHz to 96 kHz for wide range of usage in variety of events.

### **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.

**Pre-programmed wireless channel plans for simultaneous multi-channel operation**

The DWR-S02D has many pre-programmed channel groups, meaning combination of wireless channels to permit simultaneous operation of multiple channels without intermodulation.

**Two-channel slot-in wireless receiver**

Despite its dual-channel receiver capability, the DWR-S02D is small enough to be mounted directly in the slot of the Sony camcorder.

**Rear mounting to camcorders**

The DWR-S02D can be rear-mounted to a range of Sony professional camcorders - using the DWA-01D adapter. When used with a camcorder that has AES/EBU inputs, full-digital audio recording is also possible.

**Auto channel scanning function**

The DWR-S02D comes with two autochannel scanning functions that allow for fast, easy and safe frequency channel changes.

**Compact, lightweight, and rugged design**

The DWR-S02D is highly compact and light weight, maintaining a good balance even when mounted on a camcorder. In addition, it is made of magnesium die-cast and aluminum, making it extremely rugged and suitable for the harsh environment.

**Easy-to-see, full dot-matrix OLED (Organic Light-Emitting Diode) display**

The quick response of the OLED display enables real-time operating conditions to be displayed clearly and accurately.

Specifications

**Important Note**

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	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)
Receiving Channels: Europe, Middle East, Africa, Australia, New Zealand	CE33: UHF-TV channels 33-40 566 MHz to 630 MHz (Not available in New Zealand) CE42*1: UHF-TV channels 42-50 638 MHz to 710 MHz CE51: UHF-TV channels 51-59 710 MHz to 782 MHz (Not available in Australia or New Zealand)

	Zealand)
Type of Receiver	Slot-in (2 channels)
Transmission Method	WiDIF-HP (×2)
Type of reception	Space diversity
Circuit system	Double superheterodyne
Local oscillators	Crystal-controlled PLL synthesizer
RF input terminal	BNC-R, 50 ohms
Antenna Type	Detachable
Sensitivity	20 dBμ or less (at ambient temperature 25 °C (77 °F), bit error rate = 1 × 10 <sup>-5</sup> , no decline in S/N ratio)

### Audio section

Audio output connector	D-sub 15 pin (male) (×1)
Reference output level	Analog: -40 dBu Digital: -36 dBFS/-20 dBFS (switchable)
Dynamic range	106 dB or more (A-weighted) T.H.D 0.03% or less (0 dBu = 0.775 Vrms)
Audio delay	2.1 ms (Analog output in combination with the DWA-01D/F01D) 1.9 ms (AES/EBU output in combination with the DWA-01D/F01D and through a digital connection with a camcorder)

### General

Operating voltage	7 V DC
Consumption current	500 mA or less (at 7 V DC)
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-20 °C to +60 °C (-4 °F to +140 °F)
Wireless remote control	2.4-GHz IEEE802.15.4 compliant
Dimensions (unit: mm (inches))*2	88 x 119 x 31 (3 1/2 x 4 3/4 x 1 1/4)
Mass	Approx. 280 g (10 oz) (including the supplied antennas)
Supplied accessories	Antenna (2) USB adapter cable (1) USB cable (1) Operating Instructions (1)

Notes

- \*1 Australia only: 694MHz - 710MHz is blocked by channel plan software
- \*2 The values for dimensions are approximate

Related products

			
<b>DWR-R02DN</b> DWX series digital wireless receiver	<b>PDW-F335K/2</b> Three 1/2-inch type HD Power HAD CCD sensors with manual focus lens XDCAM HD cam corder recording HD /SD	<b>PMW-320K</b> Three 1/2-inch type Exmor CMOS sensors XDCAM EX cam corder with 16x zoom HD lens recording full HD / SD	<b>XDCA-FX9</b> Extension Unit for FX9 camera
			
<b>DWT-B01N</b> DWX series digital wireless body-pack transmitter body-pack	<b>PDW-F800</b> Three 2/3-inch Power HAD FX CCD sensors top-of-the-range XDCAM HD422 cam corder recording full HD / SD	<b>PMW-320L</b> Three 1/2-inch type Exmor CMOS sensors XDCAM EX cam corder without lens recording full HD / SD	<b>PDW-510P//U</b> The XDCAM cam corder PDW-510P provides DVCAM recording and a family of new revolutionary workflow related functionalities.
			
<b>PMW-400L</b> Three 2/3-inch type Exmor CMOS sensors without lens XDCAM cam corder recording Full HD 422 at 50 Mbps	<b>PMW-400K</b> Three 2/3-inch type Exmor CMOS sensors with 16x zoom HD lens XDCAM cam corder recording Full HD 422 at 50 Mbps	<b>HXC-D70K</b> Affordable three 2/3-inch Exmor CMOS sensors SD / HD Studio Camera with viewfinder and lens	<b>PDW-F355L</b> Three 1/2-inch type HD Power HAD CCD sensors without lens fully-featured XDCAM HD cam corder recording HD /SD
			
<b>HVR-S270E</b> 1/3-inch type 3 ClearVid CMOS sensor HDV cam corder with interchangeable lens system recording HD /SD	<b>HDW-650P</b> Three 2/3-inch Power HAD CCD sensors HDCAM cam corder	<b>PMW-350L</b> Three 2/3-inch type Exmor CMOS sensors without lens XDCAM EX cam corder recording HD (plus SD option)	<b>PMW-500</b> Three 2/3-inch Power HAD FX CCD sensors XDCAM HD422 cam corder recording full HD (plus SD option)



## PMW-TD300

3D XDCAM EX shoulder camcorder with dual three 1/2-inch type Exmor CMOS sensors recording Full HD / SD, 3D or 2D



## PMW-350K

Three 2/3-inch type Exmor CMOS sensors with 16x zoom HD lens XDCAM EX camcorder recording full HD (plus SD option)



## PDW-700

Three 2/3-inch Power HAD FX CCD sensors XDCAM HD422 camcorder recording full HD (plus SD option)



## DWM-02N

DWX series digital wireless microphone with interchangeable head mechanism

## Gallery

