

UWP-D12

UWP-D wireless microphone package with handheld transmitter



Overview

Digital Audio Processing for high quality sound for ENG / EFP productions The UWP-D12 wireless microphone package offers a complete UWP-D audio system which offers the sound quality of digital audio processing combined with the reliability of analog FM modulation. The package includes the UTX-M03 handheld microphone transmitter and URX-P03 portable receiver. Also included are a range of accessories including microphone holder, microphone belt-clip and shoe-mount adaptor. The UWP-D12 package offers wide frequency coverage with up to 72 MHz bandwidth (depending on region) across a wide range of channels, with a choice of models to choose from. Easy-to-use features include a large display and small size receiver to fit neatly on any size camcorder or DSLR camera, automatic channel setting function and headphone output. The UWP-D Series system provides superb transient response performance for all ENG / EFP production applications.

- **Digital Audio Processing for high quality sound**

Improves transient response performance between the UWP-D transmitter and receiver, which will provide impressive natural sound quality compared to conventional analogue wireless systems.

- **Complete package**

The UWP-D12 comes as a complete package including UTX-M03 handheld microphone transmitter, URX-P03 portable receiver and everything you need to operate the wireless audio system.

- **Option to use interchangeable heads with handheld microphone**

The UTX-M03 handheld microphone transmitter is provided with a Sony uni-directional dynamic capsule. The microphone transmitter also gives the option of using interchangeable heads with over 40 different capsules from various manufacturers available that can be mounted.

- **Wide frequency coverage with choice of channels available**

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.

- **Easy to use features**

The transmitter and receiver both feature a large display for ease of use, while the small size receiver fits neatly on any size camcorder or DSLR camera. Also featured: automatic channel setting function and headphone output.

Features

- **UWP-D digital audio processing for high quality sound**

The UWP-D Series wireless microphone systems uses Sony Digital Audio Processing to improve sound quality and transient response performance compared to conventional analogue wireless systems. It provides superb transient response performance. Analogue companding systems cannot accurately reproduce sounds such as a bell, tee shot or handclap, but Sony Digital Audio Processing reproduces them faithfully.

- **Large display and small size receiver**

The URX-P03 portable receiver is designed to fit even small camcorders or DSLR cameras, with dimensions of 63mm x 82mm x 23.8mm (W x H x D) and a weight of approx. 176 g (including batteries). The transmitters and receivers also feature a bright 11.5mm x 27.8mm display, significantly larger than previous UWP models to make them easily readable in all situations.

- **Fast and easy channel scan**

With its Clear Channel Scan, Active Channel Scan function and IR Sync features, the system detects unoccupied channels and selects the most appropriate channel automatically, for fast and easy system setup.

- **Automatic channel setting mode**

The Auto Set channel mode allows the user to find and set available frequencies to use within the operating frequencies of the system. The receiver will automatically set the transmitter channel using the IR Sync feature.

- **Wide frequency coverage**

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.

- **True Diversity reception system**

The UWP-D system achieves exceptionally stable audio signal being delivered from two independent receiver sections within the unit. Optimum signal quality is delivered by the two receivers sections and a comparison circuit constantly pulls the one with the best signal to give dropout free transmission.

- **Compatibility with Sony 800 and UWP Series analogue audio receivers**

The UWP-D Series transmitters and receivers are also compatible with Sony's WL-800 Series, UWP Series and Freedom Series, allowing users to switch between different companding modes.

- **Headphone output for monitoring**

The UWP-D system provides its own headphone output socket, which is particularly useful when working with a camera that does not have a headphone output.

- **Robust metal body**

The UTX-M03 handheld uni-directional microphone transmitter and URX-P03 portable receiver are made of strong, durable metal. Metal construction supports reliable use in rough operating conditions.

- **Rechargeable batteries**

Rechargeable battery operation is available with Ni-MH batteries.

- **Variable output level on portable receiver**

The system provides variable output level control of ± 12 dB, for use with the various input levels of

camcorders and DSLR cameras.

- **Complete package with accessories**

The UWP-D12 package includes the UTX-M03 handheld uni-directional microphone transmitter and URX-P03 portable receiver, as well as: microphone holder (1), belt clip (2), shoe-mount adapter (1), 3-pole locking mini plug/XLR-3-12C (male) (1), 3-pole locking mini plug/stereo mini plug (1), CD-ROM (1) (including operating Instructions and wireless microphone frequency list).

Technical Specifications

Important Notes

- 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.

URX-P03 Portable receiver

● Oscillator Type	Crystal-controlled PLL Synthesizer
● Reception Type	Space diversity
● Antenna Type	1/4 wave length wire
● Carrier Frequencies: Americas	UC14: 470.125 MHz to 541.875 MHz (not available in Brazil) UC30: 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz (not available in Brazil) UC42: 638.125 MHz to 697.875 MHz
● Carrier Frequencies: Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	CE21: 470.025 MHz to 542.000 MHz (not available in Australia, Malaysia, Vietnam or New Zealand) CE33: 566.025 MHz to 633.000 MHz (not available in New Zealand) CE42: 638.025 MHz to 694.000 MHz CE51: 710.025 MHz to 782.000 MHz (only available in Europe)
● Carrier Frequencies: China	CN38: 710.025 MHz to 782.000 MHz
● Carrier Frequencies: Thailand, Taiwan, Singapore	E: 794.125 MHz to 805.875 MHz
● Carrier Frequencies: Japan	JB: 806.125 MHz to 809.750 MHz
● Carrier Frequencies: South Korea	KR3: 925.125 MHz to 937.500 MHz
● Frequency Response	23Hz to 18kHz (typical)
● Signal-to-Noise Ratio	96dB (max deviation, A-weighted)
● Distortion (T.H.D)	0.9% or less (-60dBV, 1kHz input)
● Audio Delay	Approx. 0.35 msec
● Analog Output	3-pole mini jack, unbalanced
● Analog Output Level	-60dBV (at ±5kHz deviation)
● Analog Output Adjust Range	-12dB - +12dB (3dB step)
● Headphone Output	φ 3.5 mm (5/32 inch) stereo mini jack
● Headphone Output Level	Max. 10mW (at 16ohm load)
● Pilot Tone Signal	32 kHz/ 32.382 kHz/ 32.768 kHz
● Display	LCD
● Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries) DC 5.0V (via USB micro-B)
● Battery Operating Time	Approx. six hours with Sony's AA-size alkaline (LR6) batteries at 25°C(77°F)
● Operating Temperature	0°C to 50°C 32°F to 122°F
● Storage/Transport Temperature	-20°C to +55°C -4°F to +131°F
● Dimensions	63 x 82 x 23.8mm (excluding the antennas) (W x H x D)
● Mass	Approx. 176 g (including batteries)

UTX-M03 Handheld wireless microphone	
● Oscillator Type	Crystal-controlled PLL Synthesizer
● Antenna Type	1/4 wave length wire (internal)
● Type of Emission	F3E
● Carrier Frequencies: Americas	UC14: 470.125 MHz to 541.875 MHz (not available in Brazil) UC30: 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz (not available in Brazil) UC42: 638.125 MHz to 697.875 MHz
● Carrier Frequencies: Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	CE21: 470.025 MHz to 542.000 MHz (not available in Australia, Malaysia, Vietnam or New Zealand) CE33: 566.025 MHz to 633.000 MHz (not available in New Zealand) CE42: 638.025 MHz to 694.000 MHz CE51: 710.025 MHz to 782.000 MHz (only available in Europe)
● Carrier Frequencies: China	CN38: 710.025 MHz to 782.000 MHz
● Carrier Frequencies: Thailand, Taiwan, Singapore	E: 794.125 MHz to 805.875 MHz
● Carrier Frequencies: Japan	JB: 806.125 MHz to 809.750 MHz
● Carrier Frequencies: South Korea	KR3: 925.125 MHz to 937.500 MHz
● RF Power: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand, China	30 mW / 5mW
● RF Power: Japan, South Korea, Thailand, Taiwan, Singapore	10 mW / 2 mW
● Capsule Type	Dynamic
● Directivity	Uni-directional
● Maximum Input Level	151 dB SPL (at 21 dB attenuator level)
● Audio Attenuator Adjustment Range	0 dB to 21 dB (in 3-dB steps)
● Frequency Response: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	Transmission 23 Hz to 18 kHz (typical) Capsule Unit: 70 Hz to 18 kHz
● Frequency Response: China, Thailand, Taiwan, Singapore, South Korea	Transmission 23 Hz to 18 kHz (typical) Capsule Unit: 70 Hz to 18 kHz
● Frequency Response: Japan	Transmission 23 Hz to 15 kHz (typical) Capsule Unit: 70 Hz to 18 kHz
● Signal-to-Noise Ratio	96dB (max deviation, A-weighted)
● Audio Delay	Approx. 0.35 msec
● Pilot Tone Signal	32 kHz/ 32.382 kHz/ 32.768 kHz
● Display	LCD
● Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries) DC 5.0V (via USB micro-B)
● Battery Operating Time: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam	Approx eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output
● Battery Operating Time: New Zealand, China	Approx eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output
● Battery Operating Time: Thailand, Taiwan, Singapore, Japan, South Korea	Approx 10 hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 10-mW output
● Operating Temperature	0°C to 50°C 32°F to 122°F
● Storage/Transport Temperature	-20°C to +55°C -4°F to +131°F
● Dimensions	Φ47.8 x 259 mm (excluding the antennas) (W x H x D)

• Mass

Approx. 296 g (including batteries)

Compatible Products

Digital Motion Picture Camera



PXW-FS7

4K Super 35mm Exmor CMOS sensor XDCAM camera with α Mount lens system, 4K/2K RAW and XAVC recording options



PXW-FS7K

4K Super 35mm Exmor CMOS sensor XDCAM camera with 35mm full frame powered zoom lens, α Mount lens system, 4K/2K RAW and XAVC recording options

NXCAM and AVCHD



HXR-NX100

1.0-type Exmor™ R CMOS sensor NXCAM camcorder with maximum 48x zoom lens and 3 independent manual lens rings recording XAVC S, AVCHD and DV

XDCAM



PXW-X160

Three 1/3-inch type Exmor™ CMOS Full HD sensor XDCAM camcorder with 25x zoom lens and XAVC recordings



PXW-X180

Three 1/3-inch type Exmor™ CMOS Full HD sensor XDCAM camcorder with 25x zoom lens and wireless operations, including XAVC recordings



PXW-X200

Three 1/2-type Exmor™ CMOS Full HD sensor XDCAM camcorder with 17x zoom lens and XAVC recordings



PXW-X70

1.0 type Exmor™ R CMOS sensor compact XDCAM camcorder with 12x zoom lens recording XAVC, AVCHD and DV



PXW-Z100

1/2.33-inch type Exmor R CMOS sensor 4K compact XDCAM camcorder recording on XAVC format