

UWP-D16

Belt-pack UWP-D wireless microphone package with XLR plug-on transmitter



Overview

Digital Audio Processing for high quality sound for ENG / EFP productions

The UWP-D16 belt-pack wireless microphone package offers a complete UWP-D audio system offering the sound quality of digital audio processing combined with the reliability of analog FM modulation.. The package includes the UTX-B03 belt-pack transmitter, UTX-P03 XLR plug-on transmitter (48V) and URX-P03 portable receiver. Also included is a high quality omni-directional lavalier microphone and a range of accessories including windscreen, microphone holder clip, belt-clip and shoe-mount adaptor. The UWP-D16 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, headphone output, USB connection for power supply and line input availability. 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 analog wireless systems.

Complete package

The UWP-D16 comes as a complete package including the UTX-B03 belt-pack transmitter, UTX-P03 XLR plug-on transmitter, URX-P03 portable receiver, omni-directional lavalier microphone and everything you need to operate the wireless audio system.

3 pin XLR connector on plug-on transmitter connects to huge range of microphones

UTX-P03 plug-on transmitter provides a standard input with 3 pin XLR connector and 48V phantom power. This provides possible connection to virtually any standard dynamic and condenser microphone.

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.

14UC: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) (not available in Brazil)

25UC: 536.125 MHz to 607.875 MHz (UHF-TV channels 25 to 36)

42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51), 25 kHz steps (not available in US or Canada)

90UC: 941.500 MHz to 952.000 MHz, 952.850 MHz to 956.250 MHz, and 956.450 MHz to

959.850 MHz (available in the US only)

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, headphone output, USB connection for power supply and line input availability.

For customers in North America

The UWP-D16/30 and UWP-D16/42 models operate 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

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 analog wireless systems. It provides superb transient response performance. Analog 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 analog 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.

USB for external power supply or charging batteries

The UWP-D series’ components have a micro USB terminal* for connection to USB external portable power sources allowing the unit to be powered by the camcorder during use, resulting in hassle free power. You can also load NiMh batteries into the belt-pack to be charged through the micro USB.

* Except handheld receiver UTX-M03.

Robust metal body

The UTX-B03 belt-pack transmitter, UTX-P03 plug-on transmitter and URX-P03 portable receiver are made of strong, durable metal. Metal construction supports reliable use in rough operating conditions.

Line Input available

The UWP-D Series system has line input available for added flexibility.

Variable output level on portable receiver

The system provides variable output level control of ±12dB, for use with the various input levels of camcorders and DSLR cameras.

Complete package with accessories

The UWP-D16 package includes the UTX-B03 belt-pack transmitter, UTX-P03 XLR plug-on transmitter and URX-P03 portable receiver, as well as: omni-directional lavalier microphone (1) , windscreen (1), microphone holder clip (1), belt clip (2), shoe-mount adaptor (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), soft case (1).

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

14UC: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) (not available in Brazil)

Carrier Frequencies: Americas	25UC: 536.125 MHz to 607.875 MHz (UHF-TV channels 25 to 36) 42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51), 25 kHz steps (not available in US or Canada) 90UC: 941.500 MHz to 952.000 MHz, 952.850 MHz to 956.250 MHz, and 956.450 MHz to 959.850 MHz (available in the US only)
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	φ3.5 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-B03 Bodypack transmitter	
Oscillator Type	Crystal-controlled PLL Synthesizer
Antenna Type	1/4 wave length wire
Type of Emission	F3E
Carrier Frequencies: Americas	UC14: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) (not available in Brazil) UC30: 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz (UHF-TV channels 30 - 36 and 38 - 41) (not available in Brazil) UC42: 638.125 MHz to 697.875 MHz (UHF-TV channels 42 - 51)
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	Electret condenser
Directivity	Omni-directional
Input Connector	3-pole locking mini jack
Reference Input Level	MIC: -60 dBV (at 0-dB attenuator level) LINE: +4 dBu
Audio Attenuator Adjustment Range	0 dB to 21 dB (in 3-dB steps): Mic input

Frequency Response: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	Transmission 23 Hz to 18 kHz (typical)
Frequency Response: China, Thailand, Taiwan, Singapore, South Korea	Transmission 23 Hz to 18 kHz (typical)
Frequency Response: Japan	Transmission 40 Hz to 15 kHz (typical)
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	63 x 82 x 20 mm (excluding the antennas) (W x H x D)
Mass	Approx. 149 g (including batteries)

UTX-P03 Plug-on transmitter

Oscillator Type	Crystal-controlled PLL Synthesizer
Antenna Type	Integral type
Type of Emission	F3E
Carrier Frequencies: Americas	UC14: 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) (not available in Brazil) UC30: 566.125 MHz to 607.875 MHz and 614.125 MHz to 637.875 MHz (UHF-TV channels 30 - 36 and 38 - 41) (not available in - ...

	Brazil) UC42: 638.125 MHz to 697.875 MHz (UHF-TV channels 42 - 51)
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: Thailand, Taiwan, Singapore	E: 794.125 MHz to 805.875 MHz
Carrier Frequencies: South Korea	KR3: 925.125 MHz to 937.500 MHz
RF Power: Americas	40 mW / 5 mW
RF Power: Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	30 mW / 5 mW
RF Power: South Korea, Thailand, Taiwan, Singapore	10 mW / 2 Mw
Input Connector	UTX-P03: XLR-3-11C (female)
Phantom Power Voltage	UTX-P03: +48V
Reference Input Level	MIC: -60 dBV (at 0-dB attenuator level) LINE: +4 dBu
Audio Attenuator Adjustment Range	0 dB to 21 dB (in 3-dB steps): Mic input
Frequency Response: Americas, Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	Transmission 23 Hz to 18 kHz (typical)
Frequency Response: China, Thailand, Taiwan, Singapore, South Korea	Transmission 23 Hz to 18 kHz (typical)
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	Approx six hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 50-mW output

Battery Operating Time: Europe, UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	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, 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	42 x 42 x 102 mm (W x H x D)
Mass	Approx. 197 g (including batteries)

Related products



UWP-D11

Belt-pack UWP-D wireless
microphone package



UWP-D12

UWP-D wireless microphone
package with handheld
transmitter



ECM-166BMP

Uni-directional lavalier
Electret condenser
microphone



UTX-B03

UWP-D belt-pack transmitter



UTX-P03

UWP-D XLR plug-on
transmitter



UTX-M03

UWP-D handheld microphone
with uni-directional capsule



ECM-77BMP

Discrete omni-directional
lavalier Electret condenser
microphone



URX-P03

UWP-D portable receiver



URX-S03D

UWP-D two-channel slot-in
receiver



SMAD-P3

Multi Interface Shoe (MI Shoe)
adaptor for cable-free
connection



ECM-322BMP

Ear-set Electret condenser
microphone



ECM-44BMP

Affordable omni-directional
lapel microphone for use with
WRT-805 wireless transmitter



UTX-B03HR

UWP-D body-pack transmitter

Gallery

