SONY

UWP-D21

UWP-D bodypack wireless microphone package



Overview

The demand for high quality audio is increasing as high resolution content becomes prevalent in the video production industry. Today's content creators are faced with the challenge of capturing high-quality audio quickly, reliably and with limited resources. Offering superb sound quality with digital processing, reliable RF transmission, true double tuner diversity reception and friendly features, the UWP-D series is an ideal partner for ENG (electronic news gathering) and EFP (electronic field production), as well as documentaries and weddings.
The UWP-D21 bodypack wireless microphone package includes the UTX-B40 bodypack transmitter, URX-P40 receiver, ECM-V1BMP omni-directional lavalier microphone and accessories.

- High quality sound with Sony digital audio processing
- NFC SYNC function for quick and easy secure channel setting (IR sync capability with UTX-B40 transmitter from URX-P03, URX-P03D, and URX-S03D receivers)
- True double tuner diversity for stable signal reception
- Auto gain mode volume control
- +15 dB gain volume boost mode for off-mic audio
- Line input
- Channel memory for fast switching between receiver frequencies for two transmitter operation
- Transmitter frequency sent to receiver for matching multiple receivers to one transmitter
- Headphone output for monitoring
- Monitor mode for using a receiver as an ear monitor
- Variable muting function
- Compatibility with Sony WL-800/UWP/UWP-D series
- Receiver output level control
- High visibility OLED display, ideal for indoor/outdoor use
- USB connector for power supply
- Digital audio interface support with SMAD-P5 Multi Interface (MI) Shoe Adaptor (option)*

* For details on cameras that support this function, visit the Sony website.

Features

Digital audio processing for high quality sound
Advanced digital audio processing technology by Sony assures high quality sound with improved transient response performance. A new [optional] digital audio interface enables direct digital sound recording with many Sony professional camcorders and Alpha interchangeable lens cameras via the SMAD-P5 Multi

Interface MI shoe adaptor, bypassing A/D and D/A conversion stages to further ensure excellent sound quality.

Seamless camcorder integration
Integration with compatible* Sony camcorders (requires SMAD-P5 Multi Interface shoe adaptor) displays audio information such as RF level meter, audio mute status and transmitter low battery alert in the camera's viewfinder. Via the SMAD-P5, audio signals are transmitted from receiver to camera without requiring a cable connection. The wireless receiver can also receive power from the camera, with synchronised power on/off between camera and receiver for more effective power management.

* See details on SMAD-P5 for compatibility information

Fast, easy frequency setting
Sony's uniquely user-friendly NFC SYNC feature allows quick, intuitive secure channel setting between transmitter and receiver.

Light, compact design
Reduced system size and weight enable superior mobility in a wide range of applications including news, documentaries, weddings and remote production. The receiver's compact size and light weight make it an ideal partner for use small camcorders and interchangeable lens digital cameras.

Specifications

URX-P40 portable receiver	
Oscillator type	Crystal-controlled PLL synthesizer
Reception Type	True diversity method
Antenna Type	1/4 λ wavelength wire antenna (angle-adjustable)
Carrier Frequencies	14UC : 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) 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 to 51) 90UC : 941.625 MHz to 951.875 MHz, 953.000 MHz to 956.125 MHz, and 956.625 MHz to 959.625 MHz 21CE : 470.025 MHz to 542.000 MHz (UHF-TV channels 21 to 29) 33CE : 566.025 MHz to 630.000 MHz (UHF-TV channels 33 to 40) 42CE : 638.025 MHz to 694.000 MHz (UHF-TV channels 42 to 48) 38CN : 710.025 MHz to 782.000 MHz (UHF-TV channels 38 to 46) E : 794.125 MHz to 805.875 MHz BJ : 806.125 MHz to 809.750 MHz KR : 925.125 MHz to 937.500 MHz
Frequency Response	23 Hz to 18 kHz (typical) (UC, U, CE, LA, CN, E, KR models) 40 Hz to 15 kHz (typical) (J model)
Signal-to-Noise Ratio	60 dB (1 kHz sine wave, 5 kHz modulation)

URX-P40 portable receiver	
Distortion (T.H.D)	0.9% or less (1 kHz sine wave, 5 kHz modulation)
Audio Delay	Approx. 0.35 ms (analog output) Approx. 0.24 ms (digital output)
Audio Output Connector	3.5 mm diameter 3-pole locking mini jack, external connection
Audio Output Level	–60 dBV (3.5 mm diameter 3-pole locking mini jack, analog output, 0 dB audio output level) –20 dBFS (external connection, digital output, 0 dB audio output level) –50 dBFS (external connection, analog output, 0 dB audio output level)
Analog Audio Output Adjustment Range	-12dB - +12dB (3dB step)
Headphone Output Connector	3.5 mm diameter mini jack
Headphone Output Level	Max. 10mW (16-ohm)
Tone Signal Frequency	In UWP-D compander mode: 32.382 kHz In UWP compander mode: 32 kHz In WL800 compander mode: 32.768 kHz
Display	OLED
Power Requirements	DC 3.0 V (two LR6/AA size alkaline batteries) DC 5.0 V (supplied from USB Type-C connector)
Battery Life*	Approx. six hours *Battery life has been measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F) DISPLAY MODE set to AUTO OFF.
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 70 x 31 mm (2 1/2 x 2 7/8 x 1 1/4 in.) (W / H / D) (excluding antenna)
Mass	Approx. 131 g (4.6 oz) (excluding batteries)

UTX-B40 bodypack transmitter	
Oscillator Type	Crystal-controlled PLL synthesizer
Antenna Type	1/4 λ wave length wire antenna

UTX-B40 bodypack transmitter	
Carrier Frequencies	14UC : 470.125 MHz to 541.875 MHz (UHF-TV channels 14 to 25) 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 to 51) 90UC : 941.625 MHz to 951.875 MHz, 953.000 MHz to 956.125 MHz, and 956.625 MHz to 959.625 MHz 21CE : 470.025 MHz to 542.000 MHz (UHF-TV channels 21 to 29) 33CE : 566.025 MHz to 630.000 MHz (UHF-TV channels 33 to 40) 42CE : 638.025 MHz to 694.000 MHz (UHF-TV channels 42 to 48) 38CN : 710.025 MHz to 782.000 MHz (UHF-TV channels 38 to 46) E : 794.125 MHz to 805.875 MHz BJ : 806.125 MHz to 809.750 MHz KR : 925.125 MHz to 937.500 MHz
RF Output Power	30 mW/5 mW selectable (UC, U, CE, LA, CN models) 10 mW/2 mW selectable (J, E, KR models)
Capsule Type	Elect retcondenser
Directivity	Omni-directional
Input Connector	3.5 mm diameter 3-pole locking mini jack
Reference Audio Input Level	–60 dBV (MIC input, GAIN MODE set to NORMAL, 0 dB attenuation) +4 dBu (LINE input)
Audio Attenuator Adjustment Range	0 dB to 27 dB (3 dB steps)
Frequency Response	23 Hz to 18 kHz (Typical) (UC, U, CE, LA, CN, E, KR models) 40 Hz to 15 kHz (Typical) (J model)
Signal-to-Noise Ratio	60 dB (–60 dBV, 1 kHz input) 102 dB (GAIN MODE set to AUTO GAIN, max.) 96 dB (GAIN MODE set to NORMAL, max.)
Distortion	0.9% or less (–60 dBV, 1 kHz input)
Audio Delay	Approx. 0.35 ms
Tone Signal Frequency	In UWP-D compander mode: 32.382 kHz In UWP compander mode: 32 kHz In WL800 compander mode: 32.768 kHz
Display	OLED
Power Requirements	DC 3.0 V (two LR6/AA size alkaline batteries) DC 5.0 V (supplied from USB Type-C connector)

UTX-B40 bodypack transmitter	
Battery life*	Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models) Approx. 10 hours with output power of 10 mW (J, E, KR models) * Battery life has been measured with two Sony LR6/AA size alkaline 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 73 x 19 mm (2 1/2 x 2 7/8 x 3/4 in.) (W / H / D) (excluding antenna)
Mass	Approx. 83 g (2.9 oz) (excluding batteries)

Related products



SMAD-P5

Multi Interface (MI) Shoe Adaptor



UTX-B40

UWP-D bodypack transmitter



UTX-M40

UWP-D handheld microphone with unidirectional capsule



UTX-P40

UWP-D XLR plug-on transmitter



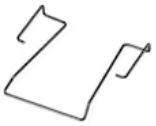
URX-P40

UWP-D portable receiver



SMAD-P4

Shoe Mount Adaptor for URX-P40



BLC-BP2

Belt Clip



ECM-V1BMP

Lavalier Electret condenser microphone



EC-0.46BX

Microphone Cable



ECM-44BMP

Affordable omni-directional lapel microphone

Gallery











© 2004 - 2026 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.

Export PDF : November 6 2026