SONY

UTX-M03

UWP-D handheld microphone with uni-directional capsule

Overview

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

The UTX-M03 uni-directional handheld microphone forms part of a complete UWP-D audio system offering the sound quality of digital audio processing combined with the reliability of analogue FM modulation. The UTX-M03 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 automatic channel setting function. The microphone transmitter has the option to use interchangeable heads with over 40 different capsules from various manufacturers available. 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.

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.
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 25-36)
42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51) (not available in US or Canada)

Easy to use features

Automatic channel setting function*, headphone output, USB connection for power supply and line input availability.

*For customers in North and Latin America, when a /25 version of either transmitter or receiver is used with /14, /30 or /30A version of receiver or transmitter, AUTO SET (auto channel setting) function or frequency transferring function with IR sync cannot be used. Manual setting of matching frequencies is still available.

For customers in North America

The UTX-M03/30 and UTX-M03/42 models operates 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 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.

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.

Rechargeable batteries
The UTX-M03 handheld microphone provides rechargeable battery operation is also available with Ni-MH batteries.

Robust metal body
The UTX-M03 handheld microphone is made of strong, durable metal. Metal construction supports reliable use in rough operating conditions.

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.

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.

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	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 25-36) 42LA: 638.125 MHz to 697.875 MHz (UHF-TV channels 42-51) (not available in US or Canada)
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:	F: 794.125 MHz to 805.875 MHz

Thailand, Taiwan, Singapore	
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,	Transmission 23 Hz to 18 kHz

UAE, South Africa, Australia, Malaysia, Vietnam, New Zealand	(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	Approx eight hours with Sony's AA-

Time: New Zealand, China	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 anntenas) (W x H x D)
Mass	Approx. 296 g (including batteries)