

# SONY



## the revolution in pro audio has begun

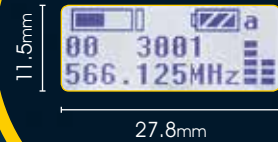
Introducing the new UWP-D Digital Audio Processing wireless microphone system from Sony, delivering exceptional wireless audio performance.

Sony Digital Audio Processing system



impressive natural sound quality

Easy to use  
Large screen



72 MHz  
bandwidth



# the ultimate in digital processed sound

## Innovation in Sound

Introducing the new UWP-D Series wireless microphone system, which realises high-quality sound and stable wireless transmission utilising true diversity reception system. Since the introduction of the first UWP Series in 2003 it has been widely used in a broad range of applications, not only for ENG (electronic news gathering) and EFP (electronic field production), but also for live concerts, sporting events, documentaries, and weddings.



UWP-D11

UWP-D12

UWP-D16



### High-quality Sound

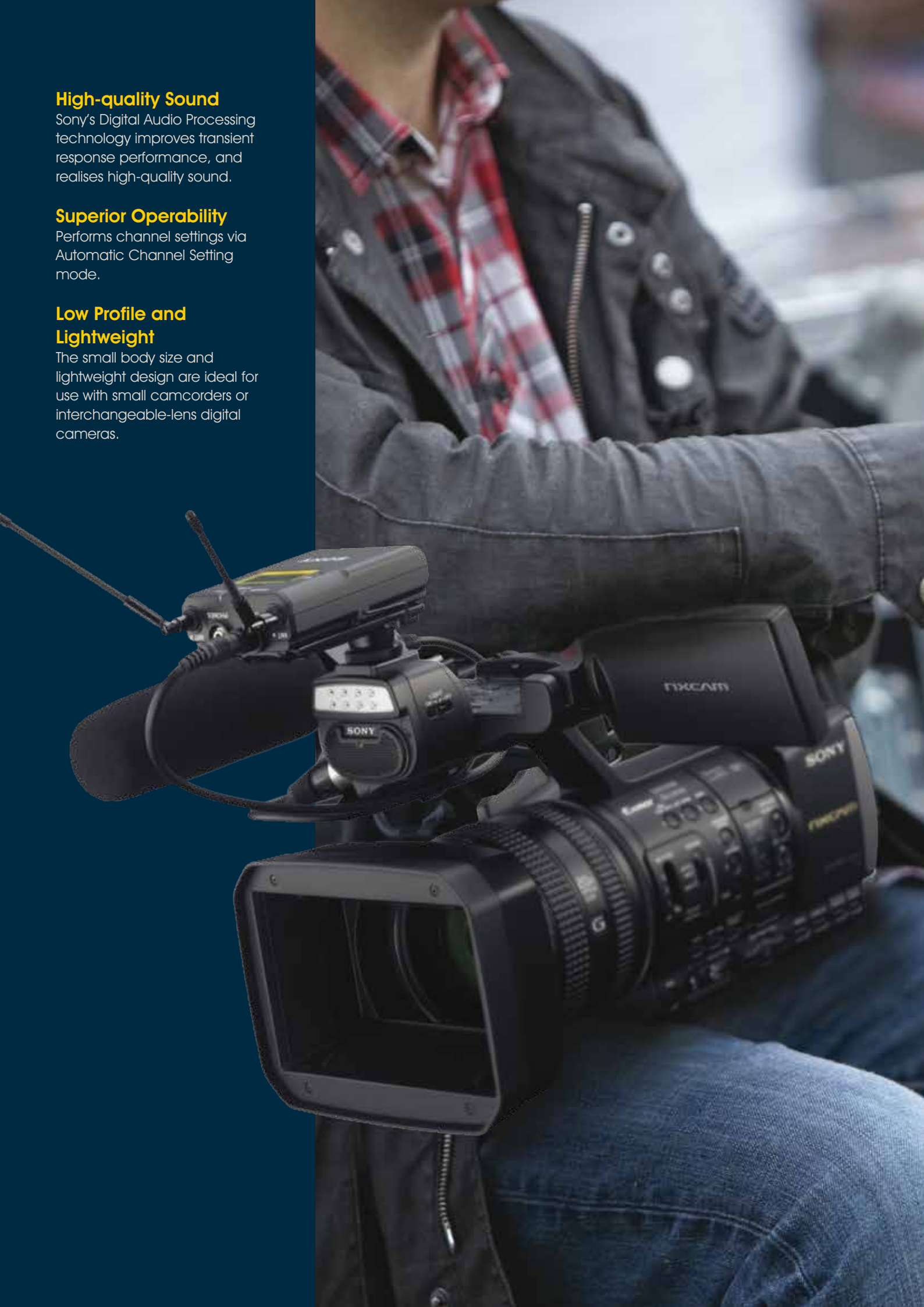
Sony's Digital Audio Processing technology improves transient response performance, and realises high-quality sound.

### Superior Operability

Performs channel settings via Automatic Channel Setting mode.

### Low Profile and Lightweight

The small body size and lightweight design are ideal for use with small camcorders or interchangeable-lens digital cameras.

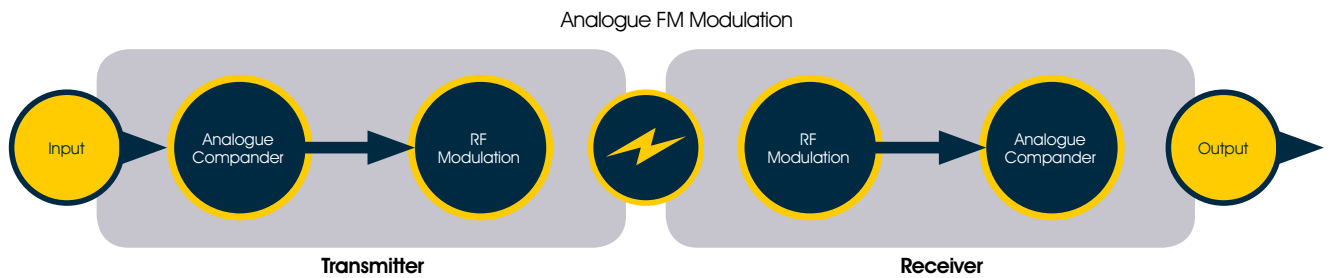


## Features

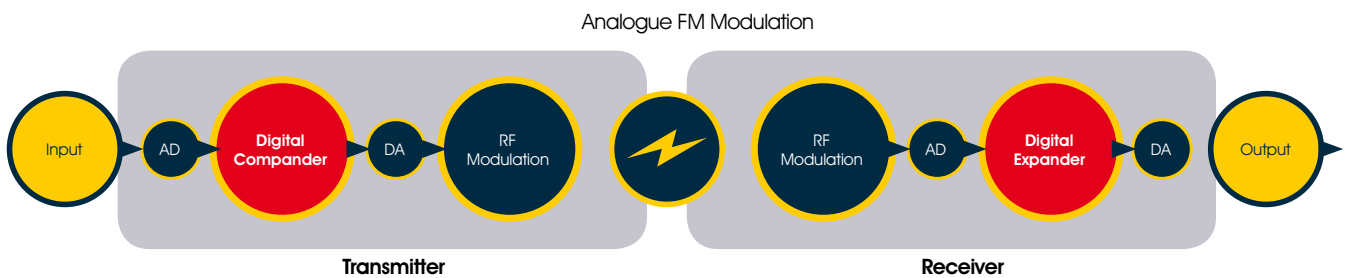
### Sony's Digital Audio Processing

Sound quality is the most important issue in wireless transmission. Conventional analogue systems make use of compressors to provide the required dynamic range. However, while compressor systems have improved over time, their inherent problems with sound quality and transient response performance have yet to be completely solved. Sony's newly developed Digital Audio Processing, which uses DSP (digital signal processing) for digital compressing, realises high sound quality.

#### Conventional Analogue System



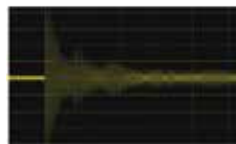
#### Sony's Digital Audio Processing



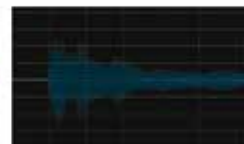
DSP optimises a time-constant range between the transmitter and receiver. It provides superb transient response performance. While analogue compressing systems cannot reproduce sounds such as a bell or tee shot with precision, Sony's Digital Audio Processing can reproduce these very accurately.

### Dynamic Response

DSP can also correct characteristics of frequency response in the transmission process for precise reproduction of original sounds.



Original Sound



Analogue System



Digital Audio Processing

## Clear Channel Scan & Active Channel Scan

The Clear Channel Scan function searches for a channel that is not being used by another transmission. This makes it easy to find an available channel so the wireless microphone can be used without interference. The Active Channel Scan function detects Sony's wireless transmitter from the channel lists within a selected group.

## IR Sync

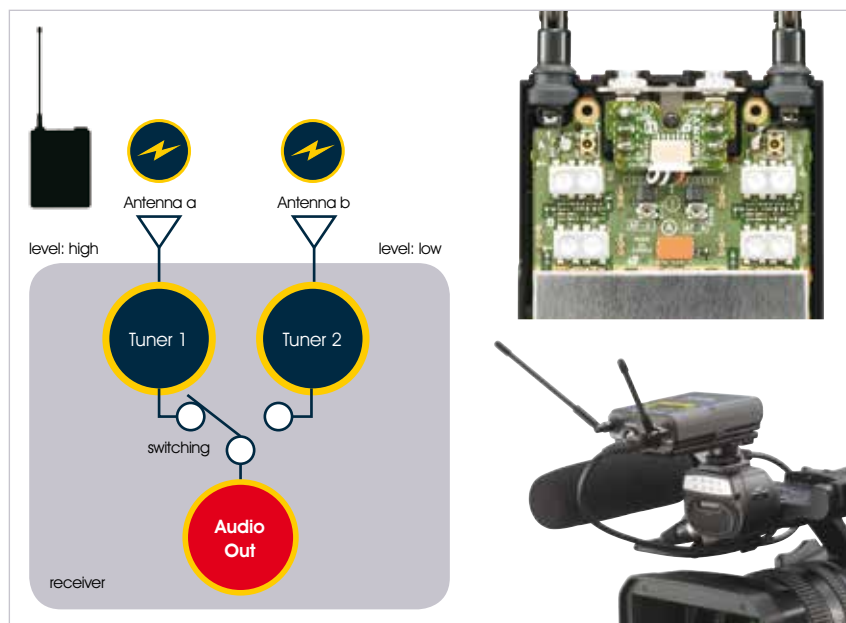
The receiver can transfer the desired frequency to the transmitter via IR connection, and allows for quick and simple setup.

## Wide Frequency Coverage

The system's operating bandwidth (up to 72 MHz\*1) achieves great mobility to cover a wide area and provide more channel options.

## True Diversity Reception System for Stable Reception

Typically, wireless microphone transmission systems are subject to interruptions in reception (RF signal dropout), but the UWP-D Series reduces this to a minimum. Utilising a true diversity reception system, it achieves highly stable reception because of its two receiving antennas, each with RF circuits. RF signals from the two antennas are compared and the stronger signal is automatically selected for output. The angle of the antennas on the portable receiver can also be adjusted, which helps to further eliminate signal dropout.



\*1 Depends on the country or frequency version.

## Easy-to-use Automatic Channel Setting Mode

Choose the AUTO SET menu on the receiver



Scans and determines available channel



Then automatically sends setting information to the transmitter via IR (infrared) connection

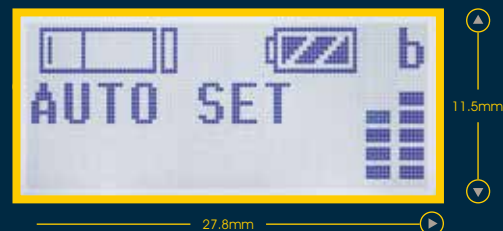


Complete the channel setting of transmitter and receiver



## Large Display and Advanced Selectable Menu

An easy-to-read large LCD and sophisticated yet easy-to-operate menu allows for secure and speedy settings.



# Compatibility with UWP Series, Freedom Series and WL-800 Series

DSP enables a digital compander to match Sony's analogue wireless system. The UWP-D transmitter can be used with a UWP Series or WL-800 Series receiver, and a UWP Series or WL-800 Series transmitter can be used with a UWP-D receiver.



## Headphone Output for Monitoring

Sound can be monitored directly from the receiver. This is especially convenient when using a camera that does not have a headphone output.

## Smart Battery Operation

### USB for Power Supply or Charging Batteries

A DC power drive can be utilised for long-term use or as an emergency power supply\*<sup>1</sup>. Rechargeable battery operation is also available with Ni-MH batteries\*<sup>2</sup>.

### Cartridge-type Battery Case\*<sup>3</sup>

The supplied battery cartridge is compatible with Sony's DWZ Series, and allows for quick and easy battery changing.



## Interchangeable Microphone Capsules

The supplied high-quality dynamic cardioid microphone capsule can be used with the handheld microphone. Alternatively, any of Sony's DWX Series capsules such as the CU-C31, F31, or F32 can also be used (the thread pitch is 1.25"/28 (31.3 mm/pitch 1.0 mm threading))\*<sup>4</sup>.



CU-C31



CU-F31, F32

## Output Level Control

This receiver function enables control of the receiver output sound level:  $\pm 12$  dB. This is useful because some video cameras don't offer manual input level control.

## Line Input Available for Body Pack Transmitter

Switchable MIC or LINE input level and adjustable attenuators allow the user to select correct audio input levels.

## 48V Power Supply for Plug-on Transmitter

This function enables direct connection of dynamic microphones and condenser microphones requiring DC 48V powering.

## Compact, Lightweight, and Robust Design

All components of the UWP-D Series – the body pack transmitter, handheld microphone, plug-on transmitter, and portable receiver – utilise an extremely robust metal chassis that is ideal for heavy-duty wireless operation. The metal body also allows for an extremely compact and lightweight design, providing the high level of mobility required for ENG and EFP operations.



\*<sup>1</sup> Excludes the UTX-M03. \*<sup>2</sup> Not supplied. \*<sup>3</sup> For the UTX-B03, UTX-P03 and URX-P03 only. \*<sup>4</sup> Use of third-party capsules may cause RFI or EMF noise.

Features

Using the Soft Case (LCS-URXP3)

For Handheld Camcorders

On the Grip Belt



For Shoulder Camcorders



A-1528-515-A  
Mounting Plate



SMAD-V1  
V-Shoe Mount Adaptor



LCS-URXP3  
Soft Case



SMAD-V1  
V-Shoe Mount Adaptor



LCS-URXP3  
Soft Case

Sony's UWP-D Series is ideal for compact video cameras...



and interchangeable-lens digital cameras



Package Lineup

UWP-D11



**UTX-B03**  
Belt-pack Transmitter



**URX-P03**  
Portable Receiver

UWP-D12



**UTX-M03**  
Handheld Wireless Microphone



**URX-P03**  
Portable Receiver

UWP-D16



**UTX-P03**  
Plug-on Transmitter



**UTX-B03**  
Belt-pack Transmitter



**URX-P03**  
Portable Receiver

Operating frequencies	470 MHz to 542 MHz	566 MHz to 630 MHz	638 MHz to 694 MHz	710 MHz to 782 MHz
Version	<b>CH21</b>	<b>CH33</b>	<b>CH42</b>	<b>CH51</b>
Selectable frequencies	567 (in 125-kHz steps) 2880 (in 25-kHz steps)	504 (in 125-kHz steps) 2560 (in 25-kHz steps)	441 (in 125-kHz steps) 2240 (in 25-kHz steps)	567 (in 125-kHz steps) 2880 (in 25-kHz steps)



Frequencies



Omni-directional Lavalier Microphone



Microphone Holder Clip



XLR-BMP Cable



Stereo Mini-BMP Cable



Belt Clip



Shoe Mount Adapter



Windscreen

CH21

CH33

CH42

CH51



Microphone Holder



XLR-BMP Cable



Stereo Mini-BMP Cable



Belt Clip

CH21

CH33

CH42

CH51



Shoe Mount Adapter



Omni-directional Lavalier Microphone



Microphone Holder Clip



XLR-BMP Cable



Stereo Mini-BMP Cable

CH21

CH33

CH42

CH51



Belt Clip



Shoe Mount Adapter



Windscreen



Soft Case

Products

# UTX-B03 Belt-pack Transmitter

- Sony Digital Audio Processing for high quality sound
- Large back light display for ease of use
- Automatic channel setting with the transmitter by IR sync
- Compatible with the UWP Series, Freedom and WL-800 Series
- Extremely compact, lightweight, and robust metal body
- Micro-USB for external power supply or charging batteries
- Switchable MIC/LINE input level and adjustable attenuator (0 dB to 21 dB, 3-dB steps)
- Supplied with omni-directional lavalier microphone



# UTX-P03 Plug-on Transmitter

- Sony Digital Audio Processing for high quality sound
- 48V phantom power and connects to any microphone with 3pin XLR connection
- Large display for ease of use in all situations
- True Diversity Reception System for exceptionally stable reception
- Fast & easy clear channel scan, active channel scan function and IR sync feature for easy setup
- Compatible with the UWP Series, Freedom and WL-800 Series
- Micro-USB for external power supply or charging batteries
- Extremely compact, lightweight, and robust metal body



Accessories



**ECM-V1BMP**  
Omni-directional  
Lavalier Microphone



**AD-RV1B2**  
Windscreen Pack  
(5PCS)



**SAD-HV1B2**  
Holder Clip Pack  
(4PCS)



**BATC-3AA**  
Battery Case



**SMAD-P2**  
Shoe Mount Adaptor



**LCS-URXP3**  
Soft Case



**SMAD-V1**  
V-Shoe Mount  
Adaptor



**ECM-X7BMP**  
Lavalier Microphone



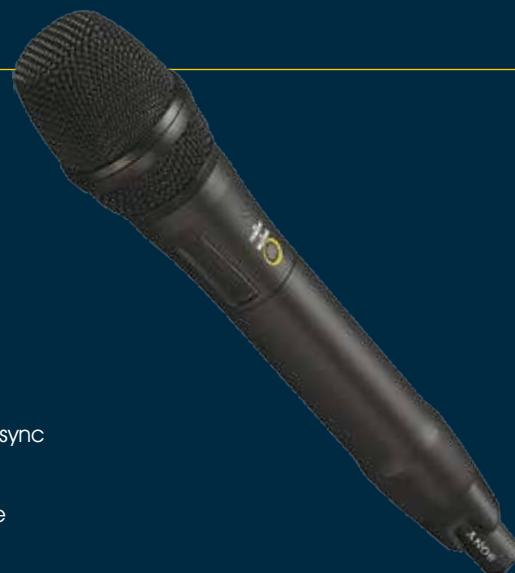
**ECM-77BMP**  
Omni-directional  
Lavalier Microphone



**ECM-44BMP**  
Omni-directional  
Lavalier Microphone

# UTX-M03

## Handheld Wireless Microphone



- Sony Digital Audio Processing for high quality sound
- Fast & easy clear channel scan, active channel scan function and IR sync feature for easy setup
- Incorporates an all-metal, robust, uni-directional dynamic microphone capsule with minimised popping and wind noise
- Compatible with the UWP Series, Freedom and WL-800 Series
- Rechargeable battery operation is available with Ni-MH batteries through the micro-USB
- Interchangeable microphone capsule

# URX-P03

## Portable Receiver



- Sony Digital Audio Processing for high quality sound
- Fast & easy clear channel scan, active channel scan function and IR sync feature for easy setup
- True Diversity Reception System for exceptionally stable reception
- Compatible with the UWP Series, Freedom and WL-800 Series
- Headphone output for monitoring
- Extremely compact, lightweight, and robust metal body
- Micro-USB for external power supply or charging batteries
- Variable output level control of  $\pm 12\text{dB}$



**BLC-BP2**  
Belt Clip (2PCS)



**SAD-M01**  
Microphone Holder



**EC-0.46BX**  
3-pole Locking Mini Plug-XLR(M) Cable



**EC-0.8BM**  
3-pole Locking Mini Plug-Stereo Mini Plug Cable



**EC-1.5BX**  
3-pole Locking Mini Plug-XLR(F) Cable



**ECM-166BMP**  
Uni-directional Lavalier Microphone



**ECM-FT5BMP**  
Omni-directional Lavalier Microphone



**ECM-LZ1UBMP**  
Uni-directional Lavalier Microphone



**ECM-322BMP**  
Omni-directional Headset Microphone



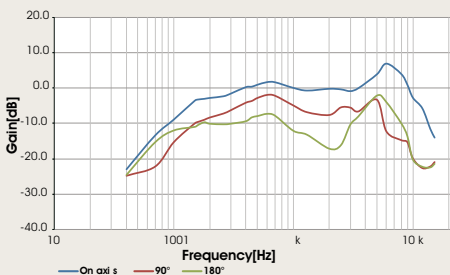
**ECM-HZ1UBMP**  
Uni-directional Headset Microphone

## Specifications

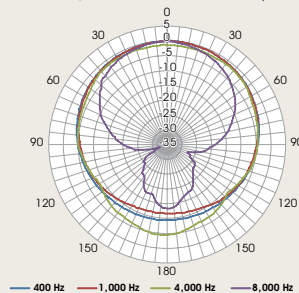
	UTX-B03 Belt-pack transmitter	UTX-M03 Handheld wireless microphone	UTX-P03 Plug-on transmitter	URX-P03 Portable receiver
Oscillator Type	Crystal-controlled PLL Synthesizer			Crystal-controlled PLL Synthesizer
Antenna Type	1/4 wave length wire	1/4 wave length wire (internal)	Integral type	1/4 wave length wire
Type of Emission	F3E			True diversity
Carrier Frequencies CH	CH21 : 470.025 MHz to 542.000 MHz CH33 : 566.025 MHz to 630.000 MHz CH42 : 638.025 MHz to 694.000 MHz CH51 : 710.025 MHz to 782.000 MHz			CH21 : 470.025 MHz to 542.000 MHz CH33 : 566.025 MHz to 630.000 MHz CH42 : 638.025 MHz to 694.000 MHz CE51 : 710.025 MHz to 782.000 MHz
RF Power	30 mW / 5 mW			23 Hz to 18 kHz (typical)
Capsule Type	Electret condenser	Dynamic	-	0.9% or less (-60 dBV, 1 kHz input)
Directivity	Omni-directional	Uni-directional	-	Approx. 0.35 msec
Input Connector	3-pole locking mini jack	-	XLR-3-11C (female)	Analogue Output
Phantom Power Voltage	-	-	+48 V	3-pole mini jack, unbalanced
Reference Input Level	MIC: -60 dBV (at 0-dB attenuator level) / LINE: +4 dBu	-	MIC: -60 dBV (at 0-dB attenuator level) / LINE: +4 dBu	Analogue Output Level
Maximum Input Level	-	151 dB SPL (at 21-dB attenuator level)	-	-60 dBV (at ±5 kHz deviation)
Audio Attenuator Adjustment Range	0 dB to 21 dB (in 3-dB steps); Mic input	0 dB to 21 dB (in 3-dB steps)	0 dB to 21 dB (in 3-dB steps); Mic input	Analogue Output Adjust Range
Frequency Response	Transmission: 23 Hz to 18 kHz (typical)	Transmission: 23 Hz to 18 kHz (typical)	Transmission: 23 Hz to 18 kHz (typical)	Headphone Output
Signal-to-Noise Ratio	96 dB (max deviation, A-weighted)			Ø3.5 mm (5/32 inch) stereo mini jack
Audio Delay	Approx. 0.35 msec			Headphone Output Level
Pilot Tone Signal	32 kHz / 32.382 kHz / 32.768 kHz			5 mW (at 16-ohm load)
Display	LCD			Pilot Tone Signal
Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)			32 kHz / 32.382 kHz / 32.768 kHz
Battery Operating Time	DC 5.0 V (via USB micro-B)			Display
Power Requirements	DC 3.0 V (with two AA-size alkaline (LR6) batteries)			DC 3.0 V (with two AA-size alkaline (LR6) batteries)
Battery Operating Time	CH7: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output	CE7: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output	CE7: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-mW output	DC 5.0 V (via USB micro-B)
Operating Temperature	0°C to 50°C (32°F to 122°F)			Battery Operating Time
Storage/Transport Temperature	-20°C to +55°C (-4°F to +131°F)			DC 3.0 V (with two AA-size alkaline (LR6) batteries)
Dimensions	63 x 82 x 20 mm (2 1/2 x 3 1/4 x 13/16 inches) (excluding the antennas) (W x H x D)	Ø448 x 260 mm (1 15/16 x 10 1/4 inches) (diameter / length)	42 x 42 x 102 mm (1 11/16 x 1 11/16 x 4 1/8 inches) (W x H x D)	DC 5.0 V (via USB micro-B)
Mass	Approx. 149 g (5.3 oz) (including batteries)	Approx. 296 g (10 oz) (including batteries)	Approx. 197 g (6.9 oz) (including batteries)	Battery Operating Time
				CH7: Approx. eight hours with Sony's AA-size alkaline (LR6) batteries at 25°C (77°F) at 30-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 23.8 mm (2 1/2 x 3 1/4 x 15/16 inches) (excluding the antennas) (W x H x D)
				Mass
				Approx. 176 g (6.2 oz) (including batteries)

### UTX-M03

#### Frequency Response Characteristics

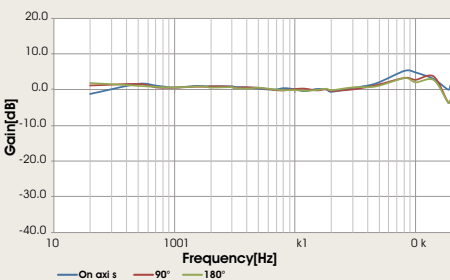


#### Directivity Characteristics (1 kHz)

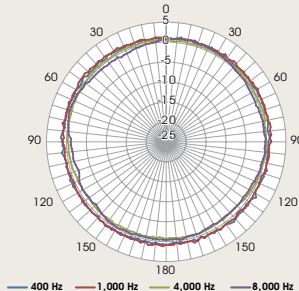


### ECM-V1BMP

#### Frequency Response Characteristics



#### Directivity Characteristics (1 kHz)



	ECM-V1BMP
Frequency Response	40 Hz to 20 kHz
Directivity	Omnidirectional
Capsule Type	Condenser
Sensitivity	-43.0 dB ± 3.0 dB (1 kHz/Pa)
Dynamic Range	86 dB or more
Maximum Input Sound Pressure Level	120 dB SPL
Microphone Head	Ø6.8 x 19.5 mm (9/32 x 25/32 inches) (diameter/length)
Mic Cable	1.2 m (3.9 feet)
Power Requirements	DC 5 V
Supplied Accessories	Windscreen (1) Horizontal Clip (1)

For full features visit [www.pro.sony.eu/proaudio](http://www.pro.sony.eu/proaudio)

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