Innovation in Sound -- Introducing the new UWP-D Series wireless microphone system, which realizes high-quality sound and stable wireless transmission utilizing true diversity reception system. Since its introduction in 2003, the UWP Series 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.

High-quality Sound
Sony’s Digital Audio Processing technology improves transient response performance, and realizes 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 in small camcorders or interchangeable-lens digital cameras.
Sony’s Digital Audio Processing

Sound quality is the most important issue in wireless transmission. Conventional analog systems make use of companders to provide the required dynamic range. However, while compander 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 companding, realizes high sound quality.

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

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

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

Clear Channel Scan & Active Channel Scan

The Clear Channel Scan function searches for a channel that is not being used by another wireless device or by a TV station. 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*) achieves great mobility to cover a wide area and provide more channel options.

*1 Depends on the country or frequency version.
Typically, wireless microphone transmission systems are subject to interruptions in reception (RF signal dropout), but the UWP-D Series reduces this to a minimum. Utilizing 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.

**True Diversity Reception System for Stable Reception**

Audio out

**Smart Battery Operation**

USB for Power Supply or Charging Batteries

A DC power drive can be utilized for long-term use or as an emergency power supply*. Rechargeable battery operation is also available with Ni-MH batteries**.

*1 Excludes the UTX-M03.  *2 Not supplied.

**Cartridge-type Battery Case***

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

*3 For the UTX-B03, UTX-P03, and URX-P03 only.

**Output Level Control**

This receiver function enables control of the receiver output sound level: ±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 proper audio input levels.

**Interchangeable Microphone Capsules (Option)**

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))*1.

*1 Use of third-party capsules may cause RFI or EMF noise.

**Compatibility with UWP Series / WL-800 Series**

DSP enables a digital compander to match Sony’s analog 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.
This function enables direct connection of dynamic microphones and condenser microphones requiring DC 48 V powering.

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

All components of the UWP-D Series – the body pack transmitter, handheld microphone, plug-on transmitter, and portable receiver – utilize 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.

The wireless receiver of the UWP-D Series can be attached to camcorders or interchangeable-lens cameras that have an MI (Multi-Interface) shoe using the MI shoe adaptor. This eliminates the need for connecting cables. By using the MI shoe adaptor, audio signals can be transmitted from the wireless receiver to a camera. In addition, the wireless receiver can get power from the camera, and the camera can control power ON/OFF, unifying power management.

*1 For compatibility information, please refer to the Sony website.
**Package Lineup**

**UWP-D11**
- UTX-B03: Bodpack Transmitter
- URX-P03: Portable Receiver
- Omnidirectional Lavalier Microphone
- Microphone Holder Clip
- XLR-BMP Cable
- Stereo Mini-BMP Cable
- Belt Clip
- Shoe Mount Adaptor
- Windscreen

**UWP-D12**
- UTX-M03: Handheld Wireless Microphone
- URX-P03: Portable Receiver
- Microphone Holder
- XLR-BMP Cable
- Stereo Mini-BMP Cable
- Belt Clip
- Shoe Mount Adaptor
- Windscreen

**UWP-D16**
- UTX-P03: Plug-on Transmitter
- UTX-B03: Bodpack Transmitter
- URX-P03: Portable Receiver
- Omnidirectional Lavalier Microphone
- Microphone Holder Clip
- XLR-BMP Cable
- Stereo Mini-BMP Cable
- Belt Clip
- Shoe Mount Adaptor
- Windscreen
- Soft Case

**Frequencies**

<table>
<thead>
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<th>UWP-D12</th>
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<tr>
<td>470 MHz to 542 MHz</td>
<td>UC14</td>
<td>UC14</td>
<td>UC14</td>
</tr>
<tr>
<td>566 MHz to 630 MHz</td>
<td>UC30</td>
<td>UC30</td>
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<tr>
<td>638 MHz to 694 MHz</td>
<td>UC42</td>
<td>UC42</td>
<td>UC42</td>
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<tr>
<td>710 MHz to 782 MHz</td>
<td>CE21</td>
<td>CE21</td>
<td>CE21</td>
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<tr>
<td>794 MHz to 806 MHz</td>
<td>CE33</td>
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<td>CE33</td>
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<tr>
<td>806 MHz to 810 MHz</td>
<td>CE42</td>
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<tr>
<td>925 MHz to 937 MHz</td>
<td>CE51</td>
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</tbody>
</table>

**Package Lineup**

**UWP-D Series**

**Frequencies as follows**

* UC14: 566 MHz to 608 MHz and 614 MHz to 638 MHz
* UC30: 564 (in 125-kHz steps)
* UC42: 2772 (in 25-kHz steps)
* CE21: 567 (in 125-kHz steps)
* CE33: 2880 (in 25-kHz steps)
* CE42: 504 (in 125-kHz steps)
* CE51: 2560 (in 25-kHz steps)
* CN38: 441 (in 125-kHz steps)
* CE61: 2240 (in 25-kHz steps)
* CE62: 470 (in 125-kHz steps)
* CE63: 2310 (in 25-kHz steps)
* CN38: 94 (in 125-kHz steps)
* JB: 30 (in 125-kHz steps)
* KR3: PP (in 125-kHz steps)

*1 566 MHz to 638 MHz and 614 MHz to 638 MHz
### Products

#### UTX-B03  Bodypack Transmitter
- Sony’s Digital Audio Processing
- Compatibility with UWP Series / WL-800 Series
- Extremely compact, lightweight, and robust metal body
- USB for 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-M03  Handheld Wireless Microphone
- Sony’s Digital Audio Processing
- Incorporates an all-metal, robust, uni-directional dynamic microphone capsule with minimized popping and wind noise
- Compatibility with UWP Series / WL-800 Series
- USB for charging batteries
- Interchangeable microphone capsule

#### UTX-P03  Plug-on Transmitter
- Sony’s Digital Audio Processing
- Converts a wired microphone to a wireless microphone via an XLR-type connector
- Compatibility with UWP Series / WL-800 Series
- USB for power supply or charging batteries
- Extremely compact, lightweight, and robust metal body
- +48 V power supply

#### URX-P03  Portable Receiver
- Sony’s Digital Audio Processing
- Easy-to-use Automatic Channel Setting mode
- Space Diversity Reception System for stable reception
- Compatibility with UWP Series / WL-800 Series
- Headphone output for monitoring
- Extremely compact, lightweight, and robust metal body
- USB for power supply or charging batteries
- Output level control

### Accessories

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<tr>
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<td>ECM-V1BMP</td>
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### SPECIFICATIONS

#### UTX-M03

**Capacity Type**
- Condenser condenser

**Dynamics**
- Omni-directional
- Uni-directional

**Input Connector**
- 3-pole locking mini jack

**Reference Input Level**
- MIC: -60 dBV (at 0-dB attenuator level)
- LINE: +4 dBu
- 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
- 0 dB to 21 dB (in 3-dB steps) / Mic input

**Frequency Response**
- Transmission: 25 Hz to 18 kHz (typical)
- Transmission: 25 Hz to 18 kHz (typical)

**Signal-to-Noise Ratio**
- 96 dB (max deviation, A-weighted)

**Dynamic Range**
- 86 dB or more

**Polar Patterns**
- 120°
- 90°

**Power Requirements**
- DC 3.8 V (two AA-size alkaline (LR6) batteries)
- DC 5.0 V (via USB micro-B)

**Battery Operating Time**
- UTX-M03: Approx. 6 hours with Sony’s AA-size alkaline (LR6) batteries at 25°C (77°F) at 10 mW output
- UTX-M03: Approx. 10 hours with Sony’s AA-size alkaline (LR6) batteries at 25°C (77°F) at 10 mW output

**Operating Temperature**
- UTX-M03: 0°C to 50°C (32°F to 122°F)

**Dimensions**
- 63 x 62 x 20 mm (2.5/8 X 2.5/8 X 7/8 inch)

**Mass**
- Approx. 149 g (5.3 oz) (including batteries)

#### ECM-V1BMP

**Model Code**
- ECM-V1BMP

**Frequency Response**
- 60 Hz to 20 kHz

**Directivity**
- Omni-directional

**Microphone Head**
- 19.9 mm (7/8 X 3/4 inch) (diameter/length)

**Power Requirements**
- DC 5 V

**Dimensions**
- 92 x 125 x 25.2 (3.6 X 5 X 1 inch)

**Mass**
- Approx. 197 g (6.9 oz) (including batteries)

#### UWP/P03

**Dedicated Type**
- Crystal-controlled PLL synthesizer

**Analog Output**
- XLR-3-11C (female)

**Audio Delay**
- Approx. 0.3 ms

**Audio Output Level**
- -60 dBV (at x2 level deviation)

**Headphone Output**
- -12 dB ± 12 dB (3-dB steps)

**Headphone Output Level**
- -5 mW (at 16-ohm load)

**Display**
- LCD

**Power Requirements**
- DC 3.7 V (two AA-size alkaline (LR6) batteries)
- DC 5.0 V (via USB micro-B)

**Battery Operating Time**
- Approx. 6 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)

**Dimensions**
- 63 x 82 x 20 mm (2.5/8 X 3.2 X 7/8 inch)

**Mass**
- Approx. 176 g (6.2 oz) (including batteries)