# New UWP-D Series

SONA

SONY





Allowing the content professional the ability to concentrate on high quality content and high quality audio!

### **NEW UWP-D Introduction**

- Low Profile & Lightweight for use on Camcorder and DSLR
  - ✓ Smaller transmitter & receiver, plus smaller MI shoe adapter
- Improve the quality of your audio
  - ✓ MI shoe adapter with Digital Audio Interface improves S/N level and sound quality
- "NFC SYNC" function & Auto Gain mode
  - $\checkmark$  Fast & easy to use in the field plus now eliminate unwanted noise

3 New kits - from October 2019

UWP-D21 – belt pack and receiver (*replaces D11 pack*) – Oct 19

UWP-D22 – handheld and receiver (*replaces D12 pack*) – *Nov 19* 

UWP-D26 – plug on, belt pack and receiver (replaces D16 pack) – Nov 19





### **Three New Kits**







UWP-D21 Belt pack and receiver (*replaces D11 pack*) UWP-D22 Handheld and receiver (replaces D12 pack)

UWP-D26 Plug on, belt pack and receiver (replaces D16 pack)



### All new components





### What is being replaced ...

| <b>NEW Model</b> | Description  | For New Models            |
|------------------|--|---------------------------|
| URX-P40/K21      | New UWP-D portable receiver, TV-channel 21-30, 470,025-542,000 MHz, Digital Audio Interface compatible, NFC Sync   | Successor of URX-P03/K21  |
| URX-P40/K33      | New UWP-D portable receiver, TV-channel 33-41, 566,025-630,000 MHz, Digital Audio Interface compatible, NFC Sync   | Successor of URX-P03/K33  |
| URX-P40/K42      | New UWP-D portable receiver, TV-channel 42-48, 638,025-694,000 MHz, Digital Audio Interface compatible, NFC Sync   | Successor of URX-P03/K42  |
| UTX-B40//K E     | New UWP-D belt pack transmitter, ISRAEL ONLY   | Successor of UTX-B03//K E |
| UTX-B40/K21      | New UWP-D belt pack transmitter, TV-channel 21-30, 470,025-542,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-B03/K21  |
| UTX-B40/K33      | New UWP-D belt pack transmitter, TV-channel 33-41, 566,025-630,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-B03/K33  |
| UTX-B40/K42      | New UWP-D belt pack transmitter, TV-channel 42-48, 638,025-694,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-B03/K42  |
| UTX-M40//K E     | New UWP-D Handheld microphone transmitter, ISRAEL ONLY   | New model                 |
| UTX-M40/K21      | New UWP-D Handheld microphone transmitter, TV-channel 21-30, 470,025-542,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-M03/K21  |
| UTX-M40/K33      | New UWP-D Handheld microphone transmitter, TV-channel 33-41, 566,025-630,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-M03/K33  |
| UTX-M40/K42      | New UWP-D Handheld microphone transmitter, TV-channel 42-48, 638,025-694,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-M03/K42  |
| UTX-P40//K E     | New UWP-D Plug On transmitter, ISRAEL ONLY   | Successor of UTX-P03//K E |
| UTX-P40/K21      | New UWP-D Plug On transmitter, +48V Phantom Power, TV-channel 21-30, 470,025-542,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-P03/K21  |
| UTX-P40/K33      | New UWP-D Plug On transmitter, +48V Phantom Power, TV-channel 33-41, 566,025-630,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-P03/K33  |
| UTX-P40/K42      | New UWP-D Plug On transmitter, +48V Phantom Power, TV-channel 42-48, 638,025-694,000 MHz, Digital Audio Processing technology, NFC Sync  | Successor of UTX-P03/K42  |
| UWP-D21//K E     | New UWP ENG UHF wireless kit, URX-P40 portable receiver, UTX-B40 belt pack - ISRAEL ONLY   | New model                 |
| UWP-D21/K21      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack + lavalier microphone and accessories, TV-channel 21-30, 470,025-542,000 MHz                 | Successor of UWP-D11/K21  |
| UWP-D21/K33      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack + lavalier microphone and accessories, TV-channel 33-41, 566,025-630,000 MHz                 | Successor of UWP-D11/K33  |
| UWP-D21/K42      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack + lavalier microphone and accessories, TV-channel 42-48, 638,025-694,000 MHz                 | Successor of UWP-D11/K42  |
| UWP-D22/K21      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-M40 handheld microphone, TV-channel 21-30, 470,025-542,000 MHz   | Successor of UWP-D12/K21  |
| UWP-D22/K33      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-M40 handheld microphone, TV-channel 33-41, 566,025-630,000 MHz   | Successor of UWP-D12/K33  |
| UWP-D22/K42      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-M40 handheld microphone, TV-channel 42-48, 638,025-694,000 MHz   | Successor of UWP-D12/K42  |
| UWP-D26//K E     | New UWP ENG UHF wireless kit, URX-P40 portable receiver, UTX-B40 belt pack, UTX-P40 Plug On - ISRAEL ONLY  | New model                 |
| UWP-D26/K21      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack, UTX-P40 Plug On, lavalier microphone and accessories, TV-channel 21-30, 470,025-542,000 MHz | Successor of UWP-D16/K21  |
| UWP-D26/K33      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack, UTX-P40 Plug On, lavalier microphone and accessories, TV-channel 33-41, 566,025-630,000 MHz | Successor of UWP-D16/K33  |
| UWP-D26/K42      | New UWP ENG UHF wireless kit, includes URX-P40 portable receiver, UTX-B40 belt pack, UTX-P40 Plug On, lavalier microphone and accessories, TV-channel 42-48, 638,025-694,000 MHz | Successor of UWP-D16/K42  |

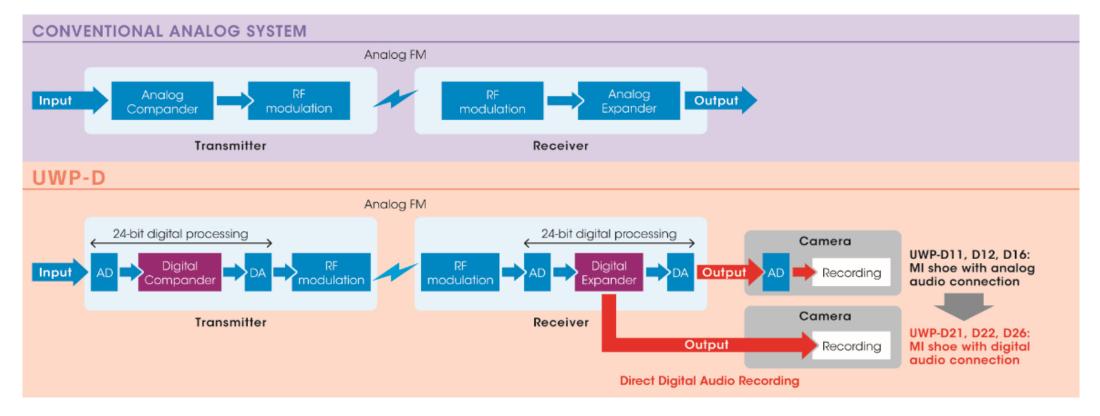


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### **Digital Audio Interface**

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 Digital Audio Processing, which uses DSP (digital signal processing) for digital companding, produces high sound quality





## Digital Audio Interface support MI shoe

-URX-P40 receiver 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 and 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.

-The combination of the New URX-P40 and SMAD-P5 supports Digital Audio Interface which delivers high sound quality with low noise by direct digital audio recording. It also achieves advanced integration with the camcorders and can show audio information on the viewfinder for enhanced usability in the field.



RF level meter



### NFC Sync Function & Auto gain mode volume control



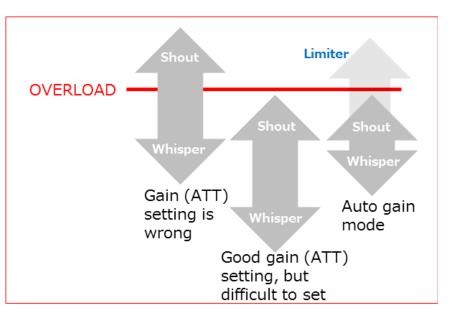
#### Auto gain mode

Sets the gain moderately high, and uses a limiter to help prevent distortion.

Choose this mode as the first choice when the loudness of voice is unknown.

•BEFORE: Audio engineer handled wireless microphone. So, they knew how to adjust mic gain with attenuator.

•NOW: Cameraman or Videographer has to handle wireless microphone. They're not familiar with mic gain, so they will appreciate the automatic gain mode.





### Other features to highlight ...

#### True Diversity Reception System for Stable RF Transmission

The UWP-D Series reduces interruptions in reception (RF signal dropout) to a minimum. Utilizing a true diversity reception system, it achieves highly stable reception because of its two receiving antennas, each with RF circuits.

#### 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. \*Depends on the country or frequency version.

+15 dB gain volume boost mode for off-mic audio (URX-B40, UTX-P40 and UTX-M40) Boosts the gain by 15 dB for when the microphone is further away and the audio level is insufficient. It's very convenient for interviews.

Channel memory function for fast switching between two receiver frequencies

Enables the user to switch between a previously set channel and current channel quickly. This is useful when using one tuner in combination with two transmitters.

#### Variable muting function (URX-B40, UTX-P40 and UTX-M40)

Pressing the MUTE button while transmitting mutes the audio so that audio from the tuner is not output. This function sets the muted audio for various operations of the MUTE button allowing the user to chose how to MUTE.

#### Output Level Control for receiver

This receiver function enables control of the receiver output sound level: ±12 dB. This can be useful if your camcorder don't offer manual input level control.

#### High visibility OLED display (UTX-B40, UTX-P40, UTX-M40 and URX-P40)

The quick response of the OLED (organic light-emitting diode) display enables real-time operating conditions to be displayed clearly and accurately.

#### Interchangeable head for wide choice of microphone capsule (UTX-M40)

A number of third party capsules can be used on the UTX-M40 handheld microphone (the thread pitch is 1.25"/28 (31.3 mm/pitch 1.0 mm threading)

#### +48V power supply (UTX-P40)

This function enables direct connection of dynamic microphones and condenser microphones requiring DC 48V powering on the plug on transmitter



### **Specifications**

|                         |              | URX-P40 Portable Receiver   |
|-------------------------|--------------|---|
| Oscillator Type         |              | Crystal-controlled PLL Synthesizer                                    |
| Reception Type          |              | True diversity method   |
| Antenna Type            |              | $1/4 \lambda$ wavelength wire antenna (angle-adjustable)              |
|                         |              | 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 25-36)              |
|                         | UC/U/LA      | 42LA: 638.125 MHz to 697.875 MHz(UHF-TV channels 42-51)               |
|                         |              | 90U: 941.625 MHz to 951.875 MHz, 953.000MHz to 956.125 MHz, and       |
|                         |              | 956.625MHz to 959.625 MHz   |
| <u>.</u> .              |              | 21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)               |
| Carrier Frequencies     | CE7          | 33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 33-40)               |
|                         |              | 42CE: 638.025 MHz to 694.000 MHz (UHF-TV channels 42-48)              |
|                         | CN           | 38CN: 710.025 MHz to 782.000 MHz(UHF-TV channels 38-46)               |
|                         | E            | 794.125 MHz to 805.875 MHz  |
|                         | 1            | B: 806.125 MHz to 809.750 MHz   |
|                         | KR           | 925.125 MHz to 937.500 MHz  |
|                         | UC/U/LA/CE7/ |   |
| Frequency Response      | CN/KR/E      | 40 Hz to 18 kHz (typical)   |
|                         | J            | 40 Hz to 15 kHz (typical)   |
| Distortion (T.H.D)      | -            | 0.9% or less (-60 dBV, 1 kHz input)                                   |
| Signal-to-Noise Ratio   |              | Signal-to-noise ratio 60 dB (1 kHz sine wave, 5 kHz modulation)       |
|                         |              | Approx. 0.35 ms (analog output)                                       |
| Audio Delay             |              | Approx. 0.24 ms (digital output)                                      |
|                         |              | -60 dBV (3.5 mm diameter mini jack, analog output)                    |
| Audio output level      |              | -20 dBFS (external connection, digital output)                        |
|                         |              | -50 dBV (external connection, analog output)                          |
| Audio Output Adjust Ran | ge           | -12dB - +12dB (3dB step)  |
| Audio output connector  |              | 3.5mm diameter 3-pole locking mini jack, external                     |
| Audio output connector  |              | connection  |
| Headphone output conne  | ector        | 3.5mm diameter mini jack  |
| Headphone Output Level  |              | Max. 10mW (at 16-ohm load)  |
| Display                 |              | OLED  |
| Power Requirements      |              | DC 3.0 V (with two AA-size alkaline (LR6) batteries)                  |
| rower nequirements      |              | DC 5.0 V (via USB type C)   |
| Battery Life            |              | Approx. 6 hours (measured with two Sony LR6/AA size alkaline batterie |
|                         |              | 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 Temp | perature     | -20°C to +55°C (-4°F to +131°F)                                       |
| Dimensions              |              | 63 × 70 × 31 mm (2 1/2 × 2 7/8 × 1 1/4 in.) (W / H / D) (excluding    |
|                         |              | antenna)  |
| Mass                    |              | Approx. 131 g (4.6 oz) (excluding batteries)                          |

| Audio Attenuator Adjustment Rage   0 dB to 27 dB (3dB steps)     Audio Attenuator Adjustment Rage   0 dB to 27 dB (3dB steps)     Frequency Response   UC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     Distortion (T.H.D)   0.9% or less (~60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     Audio Delay   96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DC 5.0 V (via USB type C)   DC 5.0 V (via USB type C)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), 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)     Operating Temperature   -20°C to +55°C (-4°F to +131°F)     Dimensions   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  |                              |           | UTX-B40 Bodypack Transmitter   |
|--|------------------------------|-----------|--|
| Antenna Type     1/4A wave length wire       I 4UC: 470.125 MHz to 541.875 MHz (UHF-Tv channels 14 to 25)       25UC: 53.6.125 MHz to 697.875 MHz (UHF-Tv channels 24-51)       (42LA: 638.125 MHz to 697.875 MHz (UHF-Tv channels 24-51)       900: 941.625 MHz to 697.875 MHz (UHF-Tv channels 24-51)       900: 941.625 MHz to 597.875 MHz (UHF-Tv channels 21-29)       21CE: 470.025 MHz to 590.00 MHz (UHF-Tv channels 31-0)       627       0       21CE: 470.025 MHz to 590.00 MHz (UHF-Tv channels 31-0)       242CE: 638.025 MHz to 590.00 MHz (UHF-Tv channels 33-40)       242CE: 638.025 MHz to 590.00 MHz (UHF-Tv channels 33-40)       26       794.125 MHz to 897.570 MHz       8       0 dy 25.125 MHz to 897.570 MHz       8       0 dy 25.125 MHz to 897.570 MHz       8       0 dy 25.125 MHz to 897.570 MHz       8       0 dy 2 mW       0 dy 2 mW       1 dy 2 mW       2 dy 2 my       1 dy 2 mW       2 dy 2 my       3 dy 3 my / 5 mW       3 dy 3 my / 5 mW <t< th=""><th>Oscillator Type</th><th></th><th>Crystal-controlled PLL Synthesizer</th></t<>   | Oscillator Type              |           | Crystal-controlled PLL Synthesizer   |
| Carrier Frequencies     25UC: 536.125 MHz to 607.875 MHz (UHF-TV channels 25-36)       42LA: 638.125 MHz to 597.875 MHz (UHF-TV channels 42-51)     90U: 94.625 MHz to 953.000 MHz to 956.125 MHz, and 956.625 MHz to 950.625 MHz       Carrier Frequencies     21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)       CE7     33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 21-29)       CB     21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 31-40)       CE7     33CE: 560.025 MHz to 630.000 MHz(UHF-TV channels 33-40)       CB     794.125 MHz to 807.500 MHz       J     B: 806.125 MHz to 807.500 MHz       KR     925.125 MHz to 807.500 MHz       VC/CE7/CN     30 mW / 5 mW       Capsule Type     Electret condenser       Directivity     0 mmi-directional       Input Connector     3.5mm diameter 3-pole locking mini jack       480 Power Supply     -       481 Power Supply     0 dB to 27 dB (3d B steps)       VC/U/LA/CE7/<br>CN/KR/E     UC/U/LA/CE7/<br>Transmission: 23 Hz to 18 KHz (typical)       Signal-to-Noise Ratio     10 2 dB (GAIN MODE set to AUTO GAIN, max.)       Signal-to-Noise Ratio     0 AD CED       Signal-to-Noise Ratio     0 CG J0 V (with two A-size alkaline batteries)       DC 3.0 V (with   | Antenna Type                 |           | 1/4λ wave length wire  |
| Carrier Frequencies     UC/U/LA     42LA: 638.125 MHz to 697.875 MHz/UHF-TV channels 42-51)       90U: 941.625 MHz to 951.875 MHz, 093.000MHz to 995.625 MHz, and 956.625 MHz to 990.625 MHz to 990.625 MHz     990.25 MHz, 10 53.000 MHz/UHF-TV channels 21-29)       Carrier Frequencies     21CE: 470.025 MHz to 542.000 MHz/UHF-TV channels 21-29)     42CE: 638.025 MHz to 630.000 MHz/UHF-TV channels 33-40)       CR     33CE: 566.025 MHz to 630.000 MHz/UHF-TV channels 33-40)     42CE: 638.025 MHz to 830.000 MHz/UHF-TV channels 33-40)       CR     38CN: 710.025 MHz to 782.000 MHz/UHF-TV channels 33-40)     42CE: 638.025 MHz to 830.57 MHz       CR     38CN: 710.025 MHz to 782.000 MHz/UHF-TV channels 38-46)     794.125 MHz to 830.57 MHz       J     B: 806.125 MHz to 830.75 MHz     809.750 MHz       VCR     925.125 MHz to 830.750 MHz     925.125 MHz to 830.750 MHz       Carrier Frequency Pow     UCR     30 mW / 5 mW       Carrier Frequency Pow     J/KRF     10 mW / 2 mW       Carrier Frequency Pow     MIC: -60 dBV (at 0-dB attenuator level) /       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -     -       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) /       Input Connector     3.5mm diameter 3-pole  |                              |           | 14UC: 470.125 MHz to 541.875 MHz(UHF-TV channels 14 to 25)   |
| Carrier Frequencies     90U: 941.625 MHz to 951.875 MHz, 953.000MHz to 956.125 MHz, and 956.625 MHz       Carrier Frequencies     21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)       CEr     33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 21-29)       CER     33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 21-48)       CER     38CN: 710.025 MHz to 540.000 MHz(UHF-TV channels 21-48)       E     794.125 MHz to 805.875 MHz       J     B: 806.125 MHz to 809.750 MHz       KR     925.125 MHz to 937.500 MHz       KR     925.125 MHz to 937.500 MHz       Capsule Type     UC/CE7/CN       UC/CE7/CN     30 mW / 5 mW       Capsule Type     Electret condenser       Directivity     0 mmi directional       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -       Reference audio Input Level     MIC: -60 dBV (at 0 -dB stenuator level) /       Input Connector     0 dB to 27 dB (3dB steps)       Frequency Response     UC/UL/CE7/<br>CN/KR/E     Transmission: 20 Hz to 15 kHz (typical)       Signal-to-Noise Ratio     0 dB (GAIN MODE set to NORMAL, max.)       Signal-to-Noise Ratio     0 GB (GAIN MODE set to NORMAL, max.)   |                              |           | 25UC: 536.125 MHz to 607.875 MHz (UHF-TV channels 25-36)   |
| Carrier Frequencies     Image: Construct of the section of |                              | UC/U/LA   | 42LA: 638.125 MHz to 697.875 MHz(UHF-TV channels 42-51)  |
| Carrier Frequencies     21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)       33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 33-40)     42CE: 638.025 MHz to 630.000 MHz(UHF-TV channels 33-46)       E     794.125 MHz to 580.000 MHz(UHF-TV channels 33-46)       E     794.125 MHz to 805.875 MHz       J     B: 806.125 MHz to 805.875 MHz       KR     025.125 MHz to 809.750 MHz       VC(CE7/CN     30 mW / 5 mW       RF Output Power     UC/CE7/CN       J/KR/E     10 mW / 2 mW       Capsule Type     Electret condenser       Directivity     0 mm / 3.5mm diameter 3-pole locking mini jack       448 V Power Supply     -       Addio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       Prequency Response     UC/U/LV/CE7/<br>CN/KR/E     Transmission: 20 Hz to 15 kHz (typical)       Signal-to-Noise Ratio     0 GB to 25 dB (3dB steps)     0.9% or less (-60 dBV, 1 kHz input)       Signal-to-Noise Ratio     0 GB (GAI MODE set to AUTO GAIN, max.)     96 dB (GAIN MODE set to AUTO GAIN, max.)       Signal-to-Noise Ratio     0 C to 30 V (with two AA-size alkaline (LR6) batteries)     0 C to 30 V (with two AA-size alkaline batteries at 25 °C (7  |                              |           |  |
| CEr     33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 33-40)       42CE: 638.025 MHz to 630.000 MHz(UHF-TV channels 42-48)       CN     38CN: 710.025 MHz to 630.000 MHz(UHF-TV channels 42-48)       E     794.125 MHz to 809.750 MHz       J     B: 806.125 MHz to 809.750 MHz       KR     925.125 MHz to 809.750 MHz       VC/CE7/CN     30 mW / 5 mW       Capsule Type     UC/CE7/CN       Directivity     0 mm / 2 mW       Capsule Type     Electret condenser       Directivity     0 mni-directional       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       UC/U/LA/CE7/<br>CN/KR/E     Transmission: 20 Hz to 18 kHz (typical)       Signal-to-Noise Ratio     J     Transmission: 40 Hz to input)       Signal-to-Noise Ratio     0.9% or less (-60 dBV, 1 kHz input)       OleBa     0.9% or less (-60 dBV, 1 kHz input)       Signal-to-Noise Ratio     DC 3.0 V (with two AA-size alkaline (LR6) batteries)       Distortion (T.H.D)     0.96 dB (GAIN MODE  |                              |           |  |
| CN     38CN: 710.025 MHz to 782.000 MHz(UHF-TV channels 38-46)       E     794.125 MHz to 805.875 MHz       J     B: 806.125 MHz to 809.750 MHz       KR     925.125 MHz to 809.750 MHz       Capsule Type     UC/CE7/CN       Directivity     0 mW / 5 mW       Capsule Type     Electret condenser       Directivity     0 mni-directional       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       VC/VI/A/CE77<br>CN/KR/E     Transmission: 23 Hz to 18 kHz (typical)       Signal-to-Noise Ratio     J     Transmission: 24 Hz to 15 kHz (typical)       Signal-to-Noise Ratio     0 dB (GAIN MODE set to AUTO GAIN, max.)       96 dB (GAIN MODE set to NORMAL, max.)     96 dB (GAIN MODE set to NORMAL, max.)       Aduio Delay     DC 3.0 V (with two An-size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO GFF)       Approx. 8 hours with output power of 30 mW (J, E, KR models)<br>Approx. 8 hours with output power of 30 mW (J, E, KR models)<br>Approx. 8 hours with output power of 30 mW (J, E, KR models)<br>Approx. 8 hours with output power of 30 mW (J, E, KR models)<br>Approx. 10 ho   | Carrier Frequencies          | CE7       |  |
| E     794.125 MHz to 805.875 MHz       J     B: 806.125 MHz to 809.750 MHz       KR     925.125 MHz to 937.500 MHz       QCECE7/CN     30 mW / 5 mW       Capsule Type     J/KR/E       Directivity     10 mW / 2 mW       Capsule Type     Electret condenser       Directivity     0mni-directional       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       VUC/ULA/CE77<br>CN/KR/E     Transmission: 23 Hz to 18 kHz (typical)       Signal-to-Noise Ratio     0.9% or less (-60 dBV, 1 kHz input)       Signal-to-Noise Ratio     102 dB (GAIN MODE set to AUTO GAIN, max.)       96 dB (GAIN MODE set to NORMAL, max.)     96 dB (GAIN MODE set to NORMAL, max.)       97 OLED     0.23.0 V (with two An-size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)       Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)       0 °C to 50 °C (32 °F to 122 °F)     Storage/ Transport Temperature       0 °C to 50 °C (32 °F to 122 °  |                              |           | 42CE: 638.025 MHz to 694.000 MHz (UHF-TV channels 42-48)   |
| J     B: 806.125 MHz to 809.750 MHz       KR     925.125 MHz to 937.500 MHz       QC(CE7/CN     30 MW / 5 mW       JJKR/E     10 mW / 2 mW       Capsule Type     Electret condenser       Directivity     0 mmi-directional       Input Connector     3.5mm diameter 3-pole locking mini jack       +48 V Power Supply     -       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       UC/ULA/CE7/<br>CN/KR/E     Transmission: 40 Hz to 15 kHz (typical)       Distortion (T.H.D)     0.9% or less (-60 dBV, 1 kHz input)       Signal-to-Noise Ratio     102 dB (GAIN MODE set to AUTO GAIN, max.)       Audio Delay     0 Approx. 0.35 msec       Display     DC 3.0 V (with two A-size alkaline (LR6) batteries)       Power Requirements     DC 3.0 V (with two A-size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)       Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)       Operating Temperature     0 °C to 50 °C (32 °F to 122 °F)       Storage/Transport Temperature     0 °C to 50 °C (32 °F to 122 °F)       Operat   |                              | CN        | 38CN: 710.025 MHz to 782.000 MHz(UHF-TV channels 38-46)  |
| KR     925.125 MHz to 937.500 MHz       RF Output Power     UC/CE7/CN     30 mW / 5 mW       Capsule Type     10 mW / 2 mW     2 mW       Capsule Type     Electret condenser     0 mmi-directional       Input Connector     3.5mm diameter 3-pole locking mini jack     48 V Power Supply       Reference audio Input Level     MIC: -60 dBV (at 0-dB attenuator level) / LINE: +4 dBu       Audio Attenuator Adjustment Range     0 dB to 27 dB (3dB steps)       VC/VL/ACE7/<br>CN/KR/E     Transmission: 23 Hz to 18 kHz (typical)       J     Transmission: 40 Hz to 15 kHz (typical)       Distortion (T.H.D)     0.9% or less (-60 dBV, 1 kHz input)       Signal-to-Noise Ratio     102 dB (GAIN MODE set to AUTO GAIN, max.)       96 dB (GAIN MODE set to NORMAL, max.)     Approx. 0.35 msec       Display     DC 3.0 V (with two AA-size alkaline (LR6) batteries)       DC 5.0 V (via USB type C)     DC 5.0 V (via USB type C)       (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)       Approx. 10 hours with output power of 30 mW (UC, U, C, E, LA, CN models)       Approx. 10 hours with output power of 30 mW (U, U, C, E, LA, CN models)       Approx. 10 hours with output power of 30 mW (U, C, U, C, E, LA, CN models)   |                              | E         | 794.125 MHz to 805.875 MHz   |
| IVC/CE7/CN30 mW / 5 mWRF Output Power30 mW / 5 mWCapsule TypeElectret condenserDirectivityOmni-directionalInput Connector3.5mm diameter 3-pole locking mini jack+48 V Power Supply-Reference audio Input LevelMIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBuAudio Attenuator Adjustment Range0 dB to 27 dB (3dB steps)VC/U/L/CE7/<br>CN/KR/ETransmission: 23 Hz to 18 kHz (typical)Prequency ResponseUC/U/L/CE7/<br>CN/KR/ETransmission: 40 Hz to 15 kHz (typical)Distortion (T.H.D)O.9% or less (-60 dBV, 1 kHz input)Signal-to-Noise RatioUC 3.0 V (with two And Step colspan="2">OLEDOPreve RequirementsDE G 3.0 V (with two AA-size alkaline (LR6) batteries)DC 3.0 V (with two AA-size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output   |                              | J         | B: 806.125 MHz to 809.750 MHz  |
| RF Output Power   1/KR/E   10 mW / 2 mW     Capsule Type   Electret condenser     Directivity   0mni-directional     Input Connector   3.5mm diameter 3-pole locking mini jack     +48 V Power Supply   -     Reference audio Input Level   MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     VC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     J   Transmission: 40 Hz to 15 kHz (typical)     Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     96 dB (GAIN MODE set to NORMAL, max.)   96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   DC 3.0 V (with two A-size alkaline (LR6) batteries)     Dec 5.0 V (via USB type C)   C(measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     Operating Temperature   0 °C to 50 °C (32 °F to 122 °F)   Storage/ Transport Temperature     0 °C to 50 °C (52 °F to 122 °F)   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   |                              | KR        | 925.125 MHz to 937.500 MHz   |
| J/KR/E 10 mW / 2 mW   Capsule Type Electret condenser   Directivity Omni-directional   Input Connector 3.5mm diameter 3-pole locking mini jack   +48 V Power Supply -   Reference audio Input Level MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Imput Connector J   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Imput Connector J   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Imput Connector J   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Imput Connector J   Imput Connector 0 dB to 27 dB (3dB steps)   Imput Connector 0.9% or less (-60 dBV, 1 kHz input)   Distortion (T.H.D) 0.9% or less (-60 dBV, 1 kHz input)   Signal-to-Noise Ratio 102 dB (GAIN MODE set to AUTO GAIN, max.)   Audio Delay Approx. 0.35 msec   Display OC 3.0 V (with two AA-size alkaline (LR6) batteries)   Power Requirements DC 3.0 V (with two AA-size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)   Battery Lufe (measured with two Sony LBC/AA size alkaline batteries at 25 °C (77 °F   | RE Output Dewor              | UC/CE7/CN | 30 mW / 5 mW   |
| Directivity Omni-directional   Input Connector 3.5mm diameter 3-pole locking mini jack   +48 V Power Supply -   Reference audio Input Level MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Audio Attenuator Adjustment Range 0 dB to 27 dB (3dB steps)   Frequency Response UC/U/LA/CE7/<br>CN/KR/E Transmission: 23 Hz to 18 kHz (typical)   Distortion (T.H.D) 0.9% or less (-60 dBV, 1 kHz input)   Signal-to-Noise Ratio 60 dB (-60 dBV, 1 kHz input)   Audio Delay 06 dB (GAIN MODE set to NORMAL, max.)   Audio Delay 0LED   Display 0LC 3.0 V (with two AA-size alkaline (LR6) batteries)   Power Requirements DC 3.0 V (with two Sony LR6/AA size alkaline (LR6) batteries)   Battery Lufe 0°C to 50°C (32°F to 122°F)   Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 30 mW (UC, U, CE, LA, CN models)   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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | RF Output Power              | J/KR/E    | 10 mW / 2 mW   |
| Input Connector   3.5mm diameter 3-pole locking mini jack     +48 V Power Supply   -     Reference audio Input Level   MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     IVC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   04B (GAIN MODE set to NORMAL, max.)     Audio Delay   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DC 5.0 V (with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)     Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 10 mW (J, E, KR models)     Operating Temperature   -20°C to 50 °C (32 °F to 122 °F)     Storage/ Transport Temperature   -20°C to +55°C (-4°F to +131°F)     Dimensions   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Capsule Type                 |           | Electret condenser   |
| +48 V Power Supply   -     Reference audio Input Level   MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Frequency Response   UC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     Addio Delay   96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DISPLAY MODE set to AUTO OFF)   Approx. 0 30 mW (UC, U, CE, LA, CN models)     Approx. 10 hours with output power of 10 mW (J, E, KR models)   Approx. 10 hours with output power of 10 mW (J, E, KR models)     Operating Temperature   -20°C to +55°C (-4°F to +131°F)     Dimensions   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | Directivity                  |           | Omni-directional   |
| Reference audio Input Level   MIC: -60 dBV (at 0-dB attenuator level) /<br>LINE: +4 dBu     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Frequency Response   UC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     Audio Delay   96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)     Approx. 10 hours with output power of 10 mW (J, E, KR models)<br>Approx. 10 hours with output power of 10 mW (J, E, KR models)     Operating Temperature   -20°C to +55°C (-4°F to +131°F)     Dimensions   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | Input Connector              |           | 3.5mm diameter 3-pole locking mini jack  |
| Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Audio Attenuator Adjustment Range   0 dB to 27 dB (3dB steps)     Frequency Response   UC/U/LA/CE7/<br>CN/KR/E   Transmission: 23 Hz to 18 kHz (typical)     Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   60 dB (-60 dBV, 1 kHz input)     Audio Delay   96 dB (GAIN MODE set to AUTO GAIN, max.)     96 dB (GAIN MODE set to NORMAL, max.)   96 dB GAIN MODE set to NORMAL, max.)     Audio Delay   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DISplay   0C 5.0 V (via USB type C)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), Approx. 8 hours with output power of 10 mW (J, E, KR models) Approx. 10 hours with output power of 10 mW (J, E, KR models)     Operating Temperature   -20°C to 50 °C (32 °F to 122 °F)     Storage/ Transport Temperature   -20°C to +55°C (-4°F to +131°F)     Dimensions   63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | +48 V Power Supply           |           | -  |
| UC/U/LA/CE7/<br>CN/KR/E     Transmission: 23 Hz to 18 kHz (typical)       Distortion (T.H.D)     0.9% or less (~60 dBV, 1 kHz input)       60 dB (~60 dBV, 1 kHz input)     102 dB (GAIN MODE set to AUTO GAIN, max.)       96 dB (GAIN MODE set to NORMAL, max.)     96 dB (GAIN MODE set to NORMAL, max.)       Audio Delay     Approx. 0.35 msec       Display     0LED       Power Requirements     DC 3.0 V (with two AA-size alkaline (LR6) batteries)       Battery Lufe     0.9°C to 50 °C (32 °F to 122 °F)       Storage/ Transport Temperature     -20°C to +55°C (-4°F to +131°F)       Dimensions     63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Reference audio Input Level  |           |  |
| Frequency Response     CN/KR/E     Transmission: 23 Hz to 18 kHz (typical)       J     Transmission: 40 Hz to 15 kHz (typical)       Distortion (T.H.D)     0.9% or less (~60 dBV, 1 kHz input)       Signal-to-Noise Ratio     102 dB (GAIN MODE set to AUTO GAIN, max.)       Audio Delay     96 dB (GAIN MODE set to NORMAL, max.)       Audio Delay     0LED       Power Requirements     DC 3.0 V (with two AA-size alkaline (LR6) batteries)       DC 5.0 V (via USB type C)     0LSPLAY MODE set to AUTO OFF)       Approx. 0 Songle Addition batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     Approx. 10 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)       Operating Temperature     -20°C to +55°C (-4°F to +131°F)       Dimensions     63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Audio Attenuator Adjustment  | Range     | 0 dB to 27 dB (3dB steps)  |
| Distortion (T.H.D)   0.9% or less (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   60 dB (-60 dBV, 1 kHz input)     Audio Delay   102 dB (GAIN MODE set to AUTO GAIN, max.)     Audio Delay   96 dB (GAIN MODE set to NORMAL, max.)     Display   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DISPLAY   DC 5.0 V (via USB type C)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Frequency Response           |           | Transmission: 23 Hz to 18 kHz (typical)  |
| Signal-to-Noise Ratio   60 dB (-60 dBV, 1 kHz input)     Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     Audio Delay   Approx. 0.35 msec     Display   0LED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DC 3.0 V (with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     Approx. 10 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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  |                              | J         | Transmission: 40 Hz to 15 kHz (typical)  |
| Signal-to-Noise Ratio   102 dB (GAIN MODE set to AUTO GAIN, max.)     96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   Approx. 0.35 msec     Display   OLED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     DC 5.0 V (via USB type C)   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | Distortion (T.H.D)           |           | 0.9% or less (-60 dBV, 1 kHz input)  |
| Audio Delay   96 dB (GAIN MODE set to NORMAL, max.)     Audio Delay   Approx. 0.35 msec     Display   OLED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     D C 5.0 V (via USB type C)   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     Battery Lufe   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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  |                              |           | 60 dB (-60 dBV, 1 kHz input)   |
| Audio Delay Approx. 0.35 msec   Display OLED   Power Requirements DC 3.0 V (with two AA-size alkaline (LR6) batteries)   Battery Lufe (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)   Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 10 mW (J, E, KR models)   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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Signal-to-Noise Ratio        |           | 102 dB (GAIN MODE set to AUTO GAIN, max.)  |
| Display   OLED     Power Requirements   DC 3.0 V (with two AA-size alkaline (LR6) batteries)     Battery Lufe   DC 5.0 V (via USB type C)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  |                              |           | 96 dB (GAIN MODE set to NORMAL, max.)  |
| DC 3.0 V (with two AA-size alkaline (LR6) batteries)       Dc 5.0 V (via USB type C)       Battery Lufe     (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)       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)       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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Audio Delay                  |           | Approx. 0.35 msec  |
| Power Requirements   DC 5.0 V (via USB type C)     DC 5.0 V (via USB type C)   DC 5.0 V (via USB type C)     Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Display                      |           | OLED   |
| Battery Lufe   (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F), DISPLAY MODE set to AUTO OFF)     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)     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 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | Power Requirements           |           |  |
| Storage/ Transport Temperature     -20°C to +55°C (-4°F to +131°F)       Dimensions     63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  | Battery Lufe                 |           | (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)<br>Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models) |
| Dimensions     63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)   | Operating Temperature        |           | 0 °C to 50 °C (32 °F to 122 °F)  |
|  | Storage/ Transport Temperate | ure       |  |
| Mass Approx. 83 g (2.9 oz) (excluding batteries)   | Dimensions                   |           | 63 × 73 × 19 mm (2 1/2 × 2 7/8 × 3/4 in.) (W / H / D) (excluding antenna)  |
|  | Mass                         |           | Approx. 83 g (2.9 oz) (excluding batteries)  |



### **Specifications**

|                             |              | UTX-M40 Handheld Microphone   |
|-----------------------------|--------------|---|
| Oscillator Type             |              | Crystal-controlled PLL Synthesizer  |
| Antenna Type                |              | 1/4λ wave length wire   |
|                             |              | 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 25-36)  |
|                             | UC/U/LA      | 42LA: 638.125 MHz to 697.875 MHz(UHF-TV channels 42-51)   |
|                             |              | 90U: 941.625 MHz to 951.875 MHz, 953.000MHz to 956.125 MHz, and   |
|                             |              | 956.625MHz to 959.625 MHz   |
|                             |              | 21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)   |
| Carrier Frequencies         | CE7          | 33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 33-40)   |
|                             |              | 42CE: 638.025 MHz to 694.000 MHz (UHF-TV channels 42-48)  |
|                             | CN           | 38CN: 710.025 MHz to 782.000 MHz(UHF-TV channels 38-46)   |
|                             | E            | 794.125 MHz to 805.875 MHz  |
|                             | J            | B: 806.125 MHz to 809.750 MHz   |
|                             | KR           | 925.125 MHz to 937.500 MHz  |
| DE Outeut Devue             | UC/U/CE7/CN  | 30 mW / 5 mW  |
| RF Output Power             | J/KR/E       | 10 mW / 2 mW  |
| Capsule Type                |              | Dynamic   |
| Directivity                 |              | Uni-directional   |
| Maximum Input Level         |              | 151 dB SPL (at 21 dB attenuator level)  |
| +48 V Power Supply          |              | -   |
| Reference audio Input Level |              | -55 dBV (GAIN MODE set to NORMAL, 0 dB attenuation)   |
| Audio Attenuator Adjustmen  | t Range      | 0 dB to 21 dB (3 dB steps)  |
|                             | UC/U/LA/CE7/ | 70 Hz to 18 kHz (typical)   |
| Frequency Response          | CN/KR/E      |   |
|                             | J            | 70 Hz to 15 kHz (typical)   |
| Distortion (T.H.D)          |              | 0.9% or less (-60 dBV, 1 kHz input)   |
|                             |              | 60 dB (-60 dBV, 1 kHz input)  |
| Signal-to-Noise Ratio       |              | 102 dB (GAIN MODE set to AUTO GAIN, max.)   |
|                             |              | 96 dB (GAIN MODE set to NORMAL, max.)   |
| Audio Delay                 |              | Approx. 0.35 msec   |
| Display                     |              | OLED  |
| Power Requirements          |              | DC 3.0 V (with two AA-size alkaline (LR6) batteries)  |
| Battery Life                |              | (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),<br>DISPLAY MODE set to AUTO OFF)<br>Approx. 8 hours with output power of 30 mW (UC, U, CE, LA, CN models)<br>Approx. 10 hours with output power of 10 mW (J, E, KR models) |
| Operating Temperature       |              | 0 °C to 50 °C (32 °F to 122 °F)   |
| Storage/ Transport Temperat | ture         | -20°C to +55°C (-4°F to +131°F)   |
| Dimensions                  |              | ø48 × 258 mm (1 15/16 × 10 1/4 in.) (diameter / length)   |
| Differioronio               |              |   |

|                            |                         | UTX-P40 Plug-on Transmitter   |
|----------------------------|-------------------------|---|
| Oscillator Type            |                         | Crystal-controlled PLL Synthesizer  |
|                            |                         | 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 25-36)  |
|                            | UC/U/LA                 | 42LA: 638.125 MHz to 697.875 MHz(UHF-TV channels 42-51)   |
|                            |                         | 90U: 941.625 MHz to 951.875 MHz, 953.000MHz to 956.125 MHz, and   |
|                            |                         | 956.625MHz to 959.625 MHz   |
| Carrier Frequencies        |                         | 21CE: 470.025 MHz to 542.000 MHz(UHF-TV channels 21-29)   |
| currer rrequencies         | CE7                     | 33CE: 566.025 MHz to 630.000 MHz(UHF-TV channels 33-40)   |
|                            |                         | 42CE: 638.025 MHz to 694.000 MHz (UHF-TV channels 42-48)  |
|                            | CN                      | 38CN: 710.025 MHz to 782.000 MHz(UHF-TV channels 38-46)   |
|                            | E                       | 794.125 MHz to 805.875 MHz  |
|                            | J                       | B: 806.125 MHz to 809.750 MHz   |
|                            | KR                      | 925.125 MHz to 937.500 MHz  |
|                            | UC/U/LA                 | 40 mW / 5 mW  |
| RF Output Power            | CE7/CN                  | 30 mW / 5 mW  |
|                            | J/KR/E                  | 10 mW / 2 mW  |
| Input Connector            |                         | XLR-3-11C type (female)   |
| Power Supply               |                         | +48 V   |
| Reference audio Input Leve | el .                    | -60 dBV (MIC input, GAIN MODE set   |
|                            |                         | to NORMAL, 0 dB attenuation)  |
| Audio Attenuator Adjustm   | <u> </u>                | 0 dB to 48 dB (3 dB steps)  |
| Frequency Response         | UC/U/LA/CE7/<br>CN/KR/E | 23 Hz to 18 kHz (typical)   |
| Frequency Response         | J                       | 40 Hz to 15 kHz (typical)   |
| Distortion (T.H.D)         |                         | 0.9% or less (-60 dBV, 1 kHz input)   |
|                            |                         | 60 dB (-60 dBV, 1 kHz input)  |
| Signal-to-Noise Ratio      |                         | 102 dB (GAIN MODE set to AUTO GAIN, max.)   |
| <u> </u>                   |                         | 96 dB (GAIN MODE set to NORMAL, max.)   |
| Audio Delay                |                         | Approx. 0.35 msec   |
| Display                    |                         | OLED  |
| Power Requirements         |                         | DC 3.0 V (with two AA-size alkaline (LR6) batteries)  |
| Power Requirements         |                         | DC 5.0 V (via USB type C)   |
|                            |                         | (measured with two Sony LR6/AA size alkaline batteries at 25 °C (77 °F),  |
|                            |                         | DISPLAY MODE set to AUTO OFF)   |
|                            |                         | During +48V OFF:  |
|                            |                         | Approx. 7 hours with output power of 40 mW (UC, U, LA models)   |
| Battery Life               |                         | Approx. 8 hours with output power of 30 mW (CE, CN models)  |
|                            |                         | Approx. 10 hours with output power of 10 mW (J, E, KR models)   |
|                            |                         | During +48V ON and ECM-673 connection:  |
|                            |                         | Approx. 6 hours with output power of 40 mW (UC, U, LA models)<br>Approx. 6 hours with output power of 30 mW (CE, CN models) |
|                            |                         | Approx. 6 hours with output power of 10 mW (J, E, KR models)  |
| Operating Temperature      |                         | 0 °C to 50 °C (32 °F to 122 °F)   |
| Storage/ Transport Tempe   | rature                  | -20°C to +55°C (-4°F to +131°F)   |
|                            |                         | 38 × 98 × 38 mm (1 1/2 × 3 7/8 × 1 1/2 in.) (W / H / D)   |
| Dimensions                 |                         | (including the audio input connector)   |
| Mass                       |                         | Approx. 139 g (4.9 oz) (excluding batteries)  |

