SONY®

UHF Wireless Microphone Package
UHF Synthesized Transmitter
UHF Synthesized Wireless Microphone
UHF Synthesized Diversity Tuner

Operating Instructions

Before operating the unit, please read this manual thoroughly
and retain it for future reference.

UWP-D21/D22/D26/D27
UTX-B40
UTX-M40
UTX-P40
URX-P40
URX-P41D

Table of Contents

Configuration of the Packages

This manual is for the UWP-D21/D22/D26/D27 Wireless Microphone Packages. The contents of each package are described below.

> **Note**
>
> Some of the packages may not be available in certain countries or areas. In addition, the U90 model can only be used in the USA.
> The use of U90 transmitters requires a license and is subject to restrictions on frequency selection and channel spacing. For details, consult your Sony dealer.

UWP-D21

The package consists of a body-pack transmitter (UTX-B40), a portable diversity tuner (URX-P40), and their accessories. When used in conjunction with a compact camcorder, a mobile system for ENG (Electronic News Gathering) or EFP (Electronic Field Production) applications can be constructed.

Body-pack transmitter
(UTX-B40) (1)

Portable diversity tuner
(URX-P40) (1)

Supplied accessories

Omni-directional lavalier microphone (1)

Wind screen (1)

Holder clip (1)

Shoe mount adaptor (1)

Belt clip (2)

XLR-BMP conversion output cable
for the URX-P40/URX-P41D (1)

Stereo mini plug-BMP conversion cable
for the URX-P40 (1)

Before Use (1)
Quick Start Guide (1)
Warranty card (1) (UC, U, LA, KR
models only)
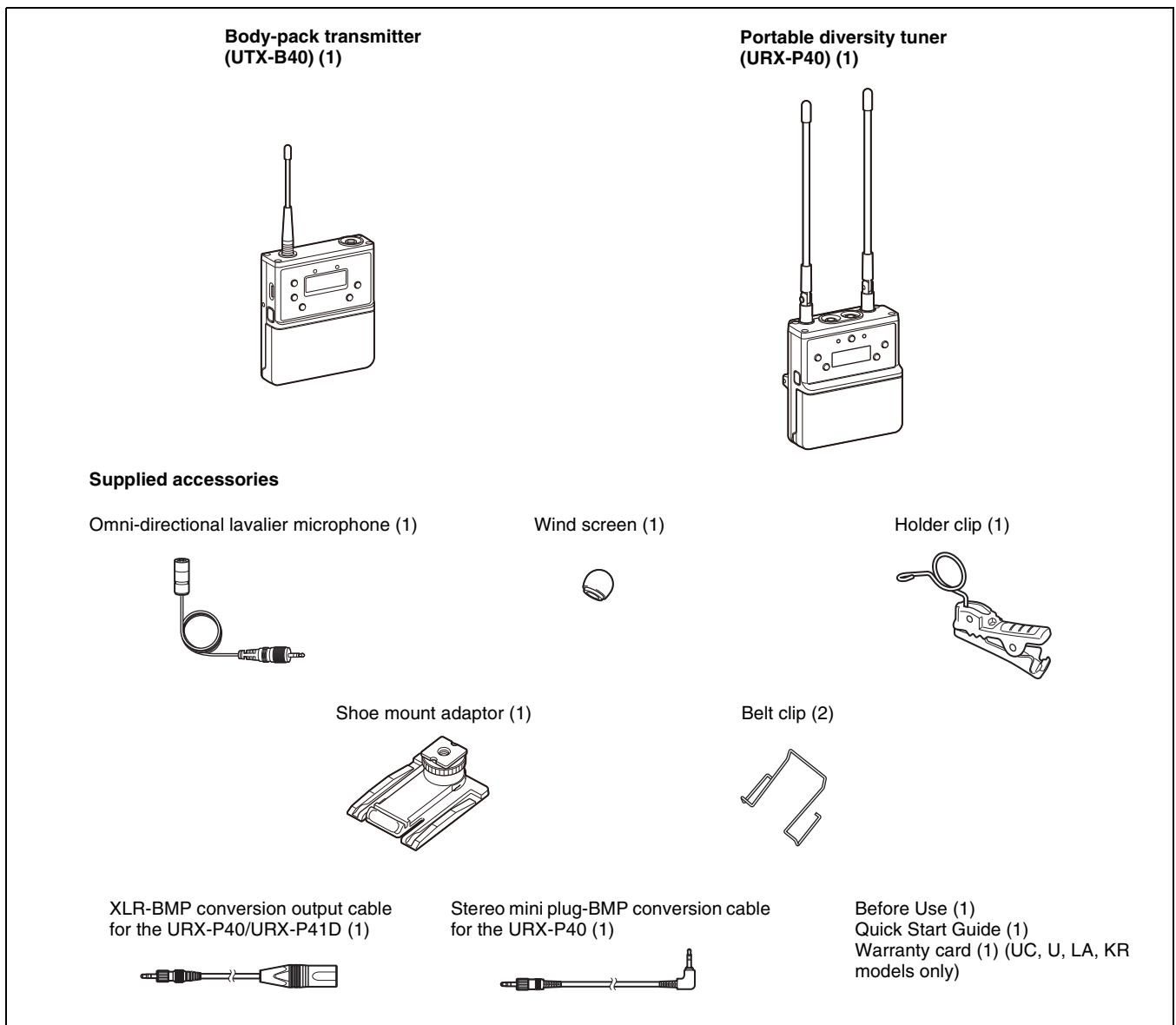
UWP-D22

The package consists of a hand-held microphone (UTX-M40), a portable diversity tuner (URX-P40), and their accessories. When used in conjunction with a compact camcorder, a mobile system for ENG (Electronic News Gathering) or EFP (Electronic Field Production) applications can be constructed.

Hand-held microphone (UTX-M40) (1)

Portable diversity tuner (URX-P40) (1)

Supplied accessories

Microphone holder (1)

Belt clip (1)

Shoe mount adaptor (1)

XLR-BMP conversion output cable for the URX-P40/URX-P41D (1)

Stereo mini plug-BMP conversion cable for the URX-P40 (1)

Before Use (1)
Quick Start Guide (1)
Warranty card (1) (UC, U, LA, KR models only)

UWP-D26

The UWP-D26 consists of a plug-on transmitter (UTX-P40), a body-pack transmitter (UTX-B40), a portable diversity tuner (URX-P40), and their accessories. When used in conjunction with a compact camcorder, a mobile system for ENG (Electronic News Gathering) or EFP (Electronic Field Production) applications can be constructed.

**Plug-on transmitter
(UTX-P40) (1)**

**Body-pack transmitter
(UTX-B40) (1)**

**Portable diversity tuner
(URX-P40) (1)**

Supplied accessories

Omni-directional lavalier microphone (1)

Wind screen (1)

Holder clip (1)

Soft case (1)

Shoe mount adaptor (1)

Belt clip (2)

Stereo mini plug-BMP conversion cable
for the URX-P40 (1)

XLR-BMP conversion output cable
for the URX-P40/URX-P41D (1)

Before Use (1)
Quick Start Guide (1)
Warranty card (1) (UC, U, LA, KR
models only)

UWP-D27

The package consists of two body-pack transmitters (UTX-B40), a portable diversity tuner (URX-P41D) that can receive two frequencies, and their accessories. When used in conjunction with a compact camcorder, a mobile system for ENG (Electronic News Gathering) or EFP (Electronic Field Production) applications can be constructed.

Body-pack transmitter (UTX-B40) (2)

Portable diversity tuner (URX-P41D) (1)

Supplied accessories

Omni-directional lavalier microphone (2)

Wind screen (2)

Holder clip (2)

Shoe mount adaptor (1)

Belt clip (3)

XLR-BMP conversion output cable for the URX-P40/URX-P41D (2)

Stereo mini plug-BMP conversion cable for the URX-P41D (1)

Before Use (1)
Quick Start Guide (1)
Warranty card (1) (UC, U, LA, KR models only)

Models available separately

The transmitter and tuner in each package are available for purchase separately. The components provided with each product are given below.

UTX-B40

• Body-pack transmitter (UTX-B40) (1)
• Omni-directional lavalier microphone (1)
• Wind screen (1)
• Holder clip (1)
• Belt clip (1)
• Before Use (1)
• Warranty card (1) (UC, U, LA, KR models only)

UTX-M40

• Hand-held microphone (UTX-M40) (1)
• Microphone holder (1)
• Before Use (1)
• Warranty card (1) (UC, U, LA, KR models only)

UTX-P40

• Plug-on transmitter (UTX-P40) (1)
• Soft case (1)
• Before Use (1)
• Warranty card (1) (UC, U, LA, KR models only)

URX-P40

• Portable diversity tuner (URX-P40) (1)
• Shoe mount adaptor (1)
• Belt clip (1)
• XLR-BMP conversion output cable for the URX-P40/URX-P41D (1)
• Stereo mini plug-BMP conversion cable for the URX-P40 (1)
• Before Use (1)
• Warranty card (1) (UC, U, LA, KR models only)

URX-P41D

• Portable diversity tuner (URX-P41D) (1)
• Shoe mount adaptor (1)
• Belt clip (1)
• XLR-BMP conversion output cable for the URX-P40/URX-P41D (2)
• Stereo mini plug-BMP conversion cable for the URX-P41D (1)
• Before Use (1)
• Warranty card (1) (UC, U, LA, KR models only)

Features

The UWP-D21/D22/D26/D27 (UWP-D series) Wireless Microphone Packages comprise a transmitter (body-pack transmitter (UTX-B40), hand-held microphone (UTX-M40), or plug-on transmitter (UTX-P40)) and a receiver (portable diversity tuner (URX-P40 or URX-P41D)). In combination with a compact camcorder or interchangeable-lens digital camera, the packages can be used for various purposes, such as ENG (Electronic News Gathering), EFP (Electronic Field Production), sports events, and weddings.

The features of each package are described below.

UWP-D21

- High quality sound with Sony Digital Audio Processing
- "NFC SYNC" function for quick and easy secure channel setting
- True diversity for stable signal reception
- Auto gain mode volume control
- +15 dB gain volume boost mode for off-mic audio
- Line input available
- Channel memory function for fast switching between two receiver frequencies
- Transmitter frequency sent to receiver
- Headphone output for monitoring
- Monitor mode for using a receiver as an ear monitor
- Variable muting function
- Compatibility with Sony WL-800/UWP/UWP-D series
- Output level control for receiver
- High visibility OLED display for indoor/outdoor use
- USB for power supply
- Digital audio interface support using SMAD-P5 multi-interface shoe-mount adaptor (option)*

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

UWP-D22

- High quality sound with Sony Digital Audio Processing
- "NFC SYNC" function for quick and easy secure channel setting
- True diversity for stable signal reception
- Interchangeable head for wide choice of microphone capsule
- Auto gain mode volume control
- +15 dB gain volume boost mode for off-mic audio
- Channel memory function for fast switching between two receiver frequencies
- Transmitter frequency sent to receiver
- Headphone output for monitoring
- Monitor mode for using a receiver as an ear monitor
- Variable muting function
- Compatibility with Sony WL-800/UWP/UWP-D series
- Output level control for receiver

- High visibility OLED display for indoor/outdoor use
- USB connector for power supply (URX-P40 only)
- Digital audio interface support using SMAD-P5 multi-interface shoe-mount adaptor (option)*

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

UWP-D26

- High quality sound with Sony Digital Audio Processing
- "NFC SYNC" function for quick and easy secure channel setting
- True diversity for stable signal reception
- Auto gain mode volume control
- +15 dB gain volume boost mode for off-mic audio
- Line input available
- +48V power supply (plug-on transmitter)
- Channel memory function for fast switching between two receiver frequencies
- Transmitter frequency sent to receiver
- Headphone output for monitoring
- Monitor mode for using a receiver as an ear monitor
- Variable muting function
- Compatibility with Sony WL-800/UWP series
- Output level control for receiver
- High visibility OLED display for indoor/outdoor use
- USB for power supply
- Digital audio interface support using SMAD-P5 multi-interface shoe-mount adaptor (option)*

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

UWP-D27

- High quality sound with Sony Digital Audio Processing
- "NFC SYNC" function for quick and easy secure channel setting
- Space-diversity reception method for low dropouts (higher stability, true diversity reception in single channel operation mode)
- External microphone input connector supports plug-in power type external microphones and Sony BMP type lavalier microphones
- Built-in mixing function for flexible mixing and output of input signals
- Auto gain mode volume control
- +15 dB gain volume boost mode for off-mic audio
- Line input available
- ALL BAND scan function that scans all available frequency bands (Japan model, Korea model, 90U model, and E model do not have this function)
- Channel memory function for fast switching between two receiver frequencies
- Transmitter frequency sent to receiver
- Headphone output for monitoring
- Monitor mode for using a receiver as an ear monitor
- Variable muting function
- Compatibility with Sony WL-800/UWP/UWP-D series

- Channel configuration supported in combination with the UWP-D series equipped with an infrared communication function
- Output level control for receiver
- Equipped with output mode with wide range of output level settings
- High visibility OLED display for indoor/outdoor use
- USB for power supply
- Digital audio interface support using SMAD-P5 multi-interface shoe-mount adaptor (option)*

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

Name and Function of Parts

Body-pack transmitter (UTX-B40)

❶ Antenna

❷ POWER indicator

Displays the battery level.

Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
Off	Supply OFF

❸ AUDIO (audio input level) indicator

Turns on or off according to the audio input level as follows.
On (red): Audio input level is too high. If the sound is distorted, adjust the attenuation level to decrease the audio input level *(page 41)*.
On (green): Audio input level is appropriate.
Off: There is no audio input or the input level is too low.
Flashing (orange): Audio is muted (i.e., disabled).

❹ Audio input connector (BMP type)

Connect to the supplied lavalier microphone.

Notes

- When the audio input level is set to MIC, a voltage for the lavalier microphone power supply is applied to the audio input connector. Special electrical wiring is used inside the audio input connector for this purpose.

- If a lavalier microphone other than the one supplied is connected, the proper performance may not be obtained.

❺ Display section

Ⓐ RF transmission indicator

Displays the current transmission status.

- ⲯ : Transmitting
- – : Transmission stopped

Ⓑ RF transmission power indicator

Indicates the current transmission power setting. You can change the setting with the RF transmission power setting function.

For details on the RF transmission power setting function, see "Setting the transmit output level (RF POWER)" (page 42).

Ⓒ Audio input level meter

Displays the audio input level.

Ⓓ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

Ⓔ Input level indicator

Displays the input level status.
MIC : Microphone input
LINE : Line input

Ⓕ Muting status indicator

Displays an icon when the muting function is on.

For details about the muting function, see "Setting the operation of the audio muting function (MUTE SETTING) (UTX-B40/P40 only)" (page 42).

Ⓖ Battery level indicator

Displays the battery level. "USB" is displayed when power is supplied from the USB connector.

For details, see "Battery level indicator" (page 19).

Ⓗ Menu display section

Displays various functions. Press the + or – button to switch functions.

For details, see "Configuration menu" (page 41).

Ⓘ Gain mode indicator

Displays the gain mode setting.

For details, see "Setting the audio gain (GAIN MODE)" (page 41).

❻ + or – button

Selects functions or values shown on the display.

❼ Infrared detector

Receives the frequency and compander mode set on the tuner.

❽ N-Mark

Receives the frequency and compander mode set on the tuner. It also notifies the tuner about the frequency and compander mode set on the transmitter.

❾ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries).

For details on how to insert batteries, see "Power Supply" (page 18).

❿ MUTE button

Turns the muting function on/off. You can change the muting function on/off control method in the configuration menu.

For details about switching the muting function on/off, see "Setting the operation of the audio muting function (MUTE SETTING) (UTX-B40/P40 only)" (page 42).

⓫ SET button

Adjusts displayed function settings and enters the displayed value.
Holding down the SET button while turning on the power turns the transmitter on without transmitting a signal (transmission stopped mode).

⓬ USB connector (USB Type-C®)

Connect to a commercially available USB portable power supply.
When a USB portable power supply is connected while the power is turned on, the unit automatically operates with power supplied by the USB portable power supply.

⓭ POWER button

Turns the power on/off.

Function	Operation
Supply ON	Press button for one second or longer
Supply OFF	Press button until the indicator turns off

Hand-held microphone (UTX-M40)

Inside the grip
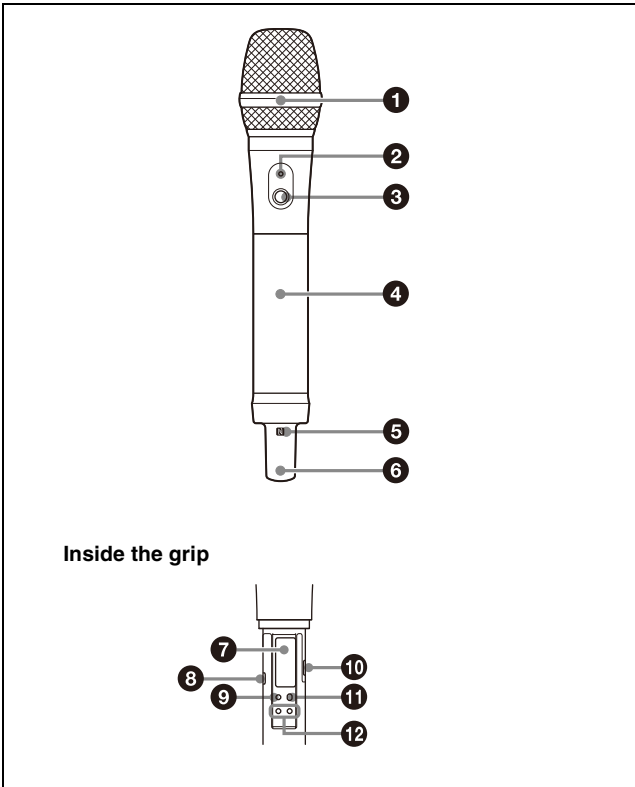
❶ Microphone unit

The standard-equipped microphone unit can be interchanged with another microphone unit having a diameter of 31.3 mm and a pitch of 1.0 mm.

For details on attaching and removing the microphone unit, see "Replacing the microphone unit" (page 22).

❷ POWER indicator

Displays the battery level and audio muting (i.e., audio enabled or disabled) status.

Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
Off	Supply OFF
Flashing (orange)	Audio is muted (i.e., disabled)

❸ POWER/MUTE button

Turns the power on/off. You also use this button to turn the muting function on/off.

Function	Operation
Supply ON	Press button for one second or longer
Supply OFF	Press button until the indicator turns off
Muting ON	Press button
Muting OFF	

You can disable the power supply operation of the POWER/MUTE button and change the muting function on/off control method from the configuration menu.

For details, see "Setting the operation of the audio muting function (POWER/MUTE) (UTX-M40 only)" (page 42).

❹ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries).

For details on how to insert batteries, see "Power Supply" (page 18).

❺ N-Mark

Receives the frequency and compander mode set on the tuner. It also notifies the tuner about the frequency and compander mode set on the transmitter.

❻ Antenna section

❼ Display section

Ⓐ RF transmission indicator

Displays the current transmission status.

- ⫟ : Transmitting
- – : Transmission stopped

Ⓑ RF transmission power indicator

Indicates the current transmission power setting. You can change the setting with the RF transmission power setting function.

For details on the RF transmission power setting function, see "Setting the transmit output level (RF POWER)" (page 42).

Ⓒ Audio input level meter

Displays the audio input level.

Ⓓ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

Ⓔ Muting status indicator

Displays an icon when the muting function is on.

For details about the muting function, see "Setting the operation of the audio muting function (POWER/MUTE) (UTX-M40 only)" (page 42).

Ⓕ Battery level indicator

Displays the battery level.

For details, see "Battery level indicator" (page 19).

Ⓖ Menu display section

Displays various functions. Press the + or – button to switch functions.

For details, see "Configuration menu" (page 41).

Ⓗ Gain mode indicator

Displays the gain mode setting.

For details, see "Setting the audio gain (GAIN MODE)" (page 41).

❽ Infrared detector

Receives the frequency and compander mode set on the tuner.

❾ SET button

Adjusts displayed function settings and enters the displayed value.
Holding down the SET button while turning on the power turns the transmitter on without transmitting a signal (transmission stopped mode).

❿ USB connector (USB Type-C)

For use by service personnel.

⓫ POWER button

Turns the power on/off.

⓬ + or – button

Selects functions or values shown on the display.

Plug-on transmitter (UTX-P40)

Front

Bottom
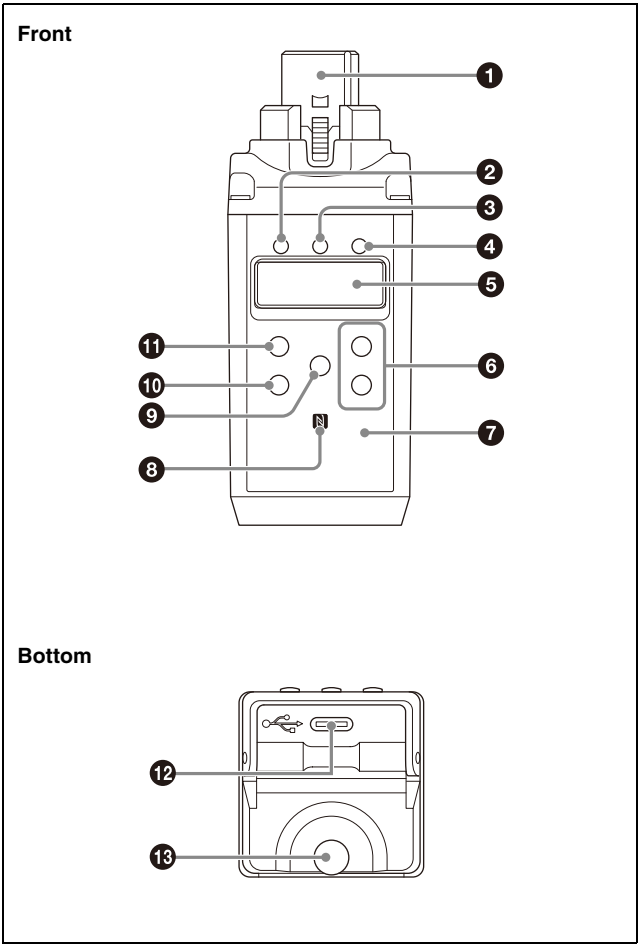
❶ Audio input connector (XLR type)

Connect to a microphone or the line output of an audio mixer or other device.

❷ +48V (+48 V supply) indicator

Lights up when the unit is set to MIC input and is supplying power to the connected microphone.

❸ POWER indicator

Displays the battery level.

Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
Off	Supply OFF

❹ AUDIO (audio input level) indicator

Turns on or off according to the audio input level as follows.
On (red): Audio input level is too high. If the sound is distorted, adjust the attenuation level to decrease the audio input level *(page 41)*.
On (green): Audio input level is appropriate.
Off: There is no audio input or the input level is too low.
Flashing (orange): Audio is muted (i.e., disabled).

❺ Display section

Ⓐ RF transmission indicator

Displays the current transmission status.

- ⊤ : Transmitting
- – : Transmission stopped

Ⓑ RF transmission power indicator

Indicates the current transmission power setting. You can change the setting with the RF transmission power setting function.

For details on the RF transmission power setting function, see "Setting the transmit output level (RF POWER)" (page 42).

Ⓒ Audio input level meter

Displays the audio input level.

Ⓓ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

Ⓔ Input level indicator

Displays the input level status.
MIC : Microphone input
LINE : Line input

Ⓕ Muting status indicator

Displays an icon when the muting function is on.

For details about the muting function, see "Setting the operation of the audio muting function (MUTE SETTING) (UTX-B40/P40 only)" (page 42).

Ⓖ Battery level indicator

Displays the battery level. "USB" is displayed when power is supplied from the USB connector.

For details, see "Battery level indicator" (page 19).

Ⓗ Menu display section

Displays various functions. Press the + or – button to switch functions.

For details, see "Configuration menu" (page 41).

Ⓘ Gain mode indicator

Displays the gain mode setting.

For details, see "Setting the audio gain (GAIN MODE)" (page 41).

❻ + or – button

Selects functions or values shown on the display.

❼ Infrared detector

Receives the frequency and compander mode set on the tuner.

❽ N-Mark

Receives the frequency and compander mode set on the tuner. It also notifies the tuner about the frequency and compander mode set on the transmitter.

❾ MUTE button

Turns the muting function on/off. You can change the muting function on/off control method in the configuration menu.

For details about switching the muting function on/off, see "Setting the operation of the audio muting function (MUTE SETTING) (UTX-B40/P40 only)" (page 42).

❿ SET button

Adjusts displayed function settings and enters the displayed value.
Holding down the SET button while turning on the power turns the transmitter on without transmitting a signal (transmission stopped mode).

⓫ POWER button

Turns the power on/off.

Function	Operation
Supply ON	Press button for one second or longer
Supply OFF	Press button until the indicator turns off

⓬ USB connector (USB Type-C)

Connect to a commercially available USB portable power supply.
When a USB portable power supply is connected while the power is turned on, the unit automatically operates with power supplied by the USB portable power supply.

⓭ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries).

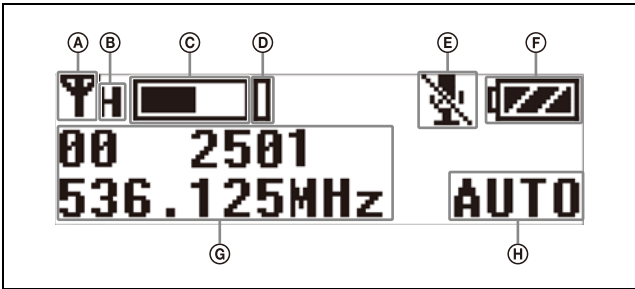*For details on how to insert batteries, see "Power Supply" (page 18).*

Portable diversity tuner (URX-P40)
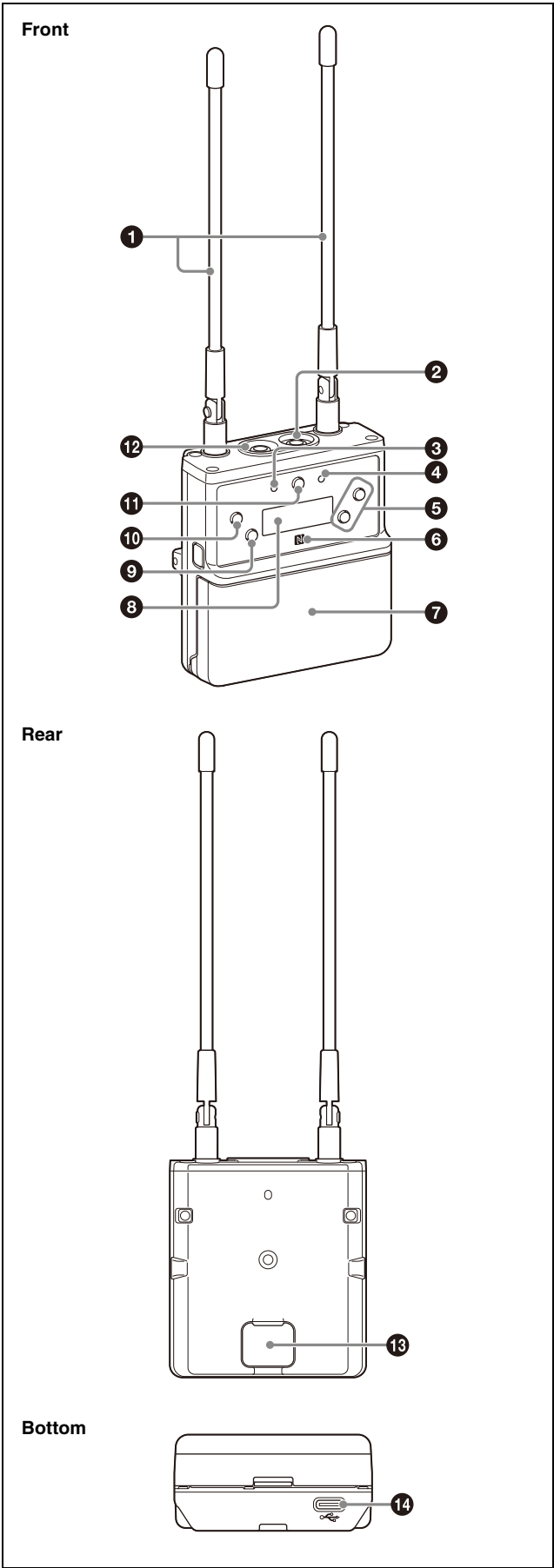
Front

Rear

Bottom

❶ Antenna

❷ PHONES (monitor) connector (3.5-mm diameter, stereo mini jack)

Connect to headphones to monitor the audio output.

Note

Do not connect headphones with a monaural mini jack. This may short-circuit the headphone outputs, resulting in distorted sound output.

❸ POWER indicator

Displays the battery level.

Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
Off	Supply OFF

❹ RF (radio frequency input) indicator

Displays the RF input level using the following colors.
On (green): Input level is 25 dBμ or more.
On (red): Input level is 15 dBμ to 25 dBμ.
Off: Input level is 15 dBμ or lower.

* 0 dBμ = 1 μV$_{EMF}$

❺ + or – button

Selects functions or values shown on the display.

❻ N-Mark

Sends the set frequency and compander mode to the transmitter. It also detects the tuner about the frequency and compander mode set on the transmitter.

❼ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries).

For details on how to insert batteries, see "Power Supply" (page 18).

❽ Display section

Ⓐ Audio input level meter

Displays the audio input level.

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Ⓑ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

Ⓒ Transmitter power warning indicator

Displays an icon when the remaining battery capacity of the transmitter being received is almost discharged.

Notes

- The icon is not displayed if the receive signal level is low.
- This function is enabled only when the transmitter is a UTX-B40/M40/P40.

Ⓓ Transmitter muting status indicator

Displays an icon when the muting function of the transmitter being received is on.

Notes

- The icon is not displayed if the receive signal level is low.
- This function is enabled only when the transmitter is a UTX-B40/M40/P40.

Ⓔ Battery level indicator

Displays the battery level. "USB" is displayed when power is supplied from the USB connector. "MI" is displayed when power is supplied from an SMAD-P5 (option).

For details, see "Battery level indicator" (page 19).

Ⓕ RF (radio frequency input) level meter

Displays the RF input level. The number of lights will change depending on the input level.
6 lights: 60 dBμ or higher
5 lights: 50 dBμ to 60 dBμ
4 lights: 40 dBμ to 50 dBμ
3 lights: 30 dBμ to 40 dBμ
2 lights: 20 dBμ to 30 dBμ
1 light: 10 dBμ to 20 dBμ
No lights: 10 dBμ or lower

Ⓖ Menu display section

Displays various functions. Press the + or – button to switch functions.

For details, see "Configuration menu" (page 31).

❾ NFC SYNC (NFC communication) button

Press to start a channel scan and for NFC communication with the transmitter.

For details, see "Operation" (page 23).

❿ SET button

Adjusts displayed function settings and enters the displayed value.
Holding down the SET button while turning on the power turns the transmitter on without transmitting a signal (transmission stopped mode).

⓫ POWER button

Turns the power on/off.

Function	Operation
Supply ON	Press button for one second or longer
Supply OFF	Press button until the indicator turns off

⓬ OUTPUT (audio output) connector (3.5-mm diameter, 3-pole locking mini jack, balanced output)

Connect one end of the supplied XLR-BMP conversion output cable for the URX-P40/URX-P41D or the stereo mini plug-BMP conversion cable for the URX-P40 here and the other end to the microphone input on a camcorder, mixer, or amplifier. If the microphone input connector on the connected device is a stereo mini jack, connect the straight (BMP) plug to the tuner and the L-shaped (stereo mini) plug to the microphone input connector on the device.

Notes

- To prevent damaging the tuner, do not apply a voltage to this connector from a microphone external power supply (MIC+48V) or other source.
- Connection to a plug-in power microphone input connector is supported using the stereo mini plug-BMP conversion cable for the URX-P40.
- When the SMAD-P5 (option) is connected, connecting the stereo mini plug-BMP conversion cable for the URX-P40 to a camcorder microphone input may cause noise to occur. In that case, use the supplied shoe mount adaptor.
- When the stereo mini plug-BMP conversion cable for the URX-P40 is connected, the output becomes unbalanced.

⓭ Auxiliary connector

Refer to the SMAD-P5 (option) operating instructions for details about attaching to this unit.
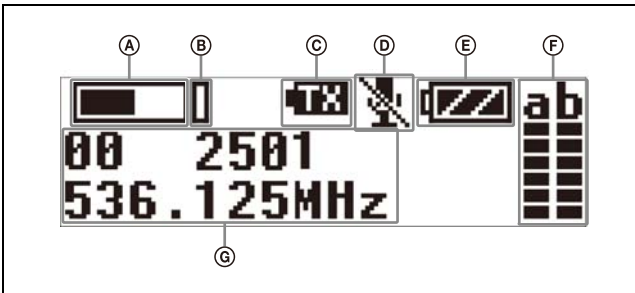
⓮ USB connector (USB Type-C)

Connect to a commercially available USB portable power supply.
When the power is turned on, the unit operates with power supplied by the USB portable power supply.

Portable diversity tuner (URX-P41D)
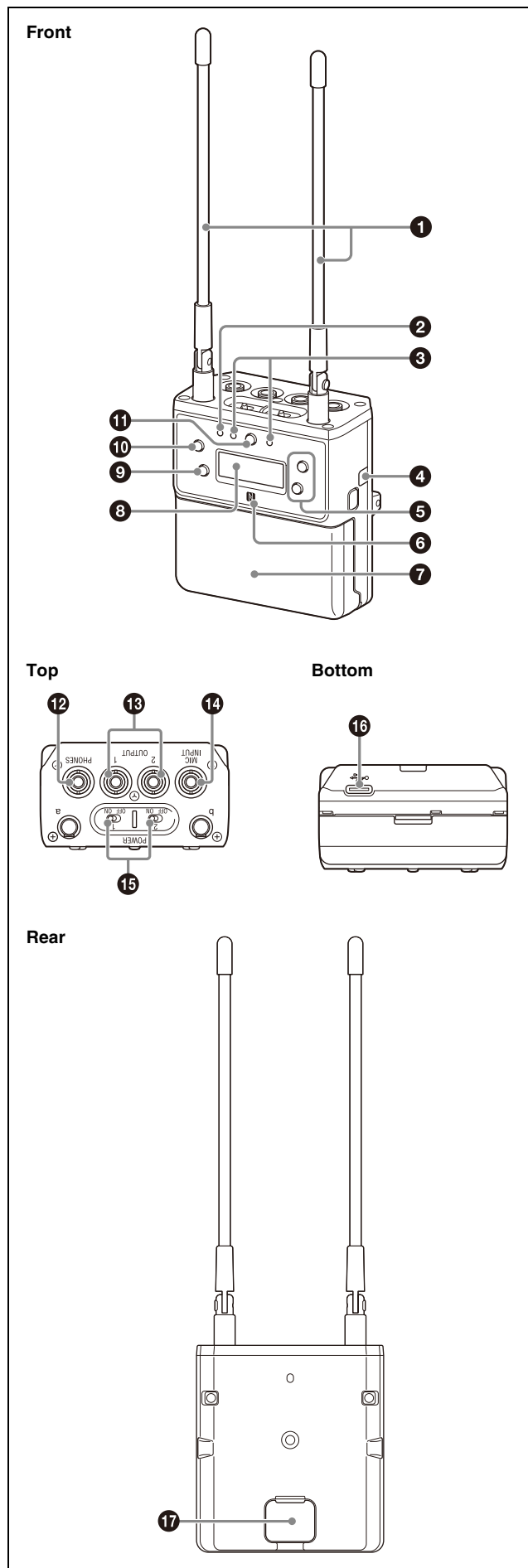
Front

Top

Bottom

Rear

❶ Antenna

❷ POWER indicator

Displays the battery level.

Indicator display	Status
On (green)	Sufficient battery level
Flashing (green)	Battery is getting low
Off	Supply OFF

❸ RF (radio frequency input) indicators

Lights up as shown below depending on the RF input level of tuner 1 and tuner 2.
On (green): Input level is 25 dBµ or more.
On (red): Input level is 15 dBµ to 25 dBµ.
Off: Input level is 15 dBµ or lower.

* 0 dBµ = 1 µV_{EMF}

❹ Infrared transmitter port

Sends the set frequency and compander mode to the transmitter.

❺ + or – button

Selects functions or values shown on the display.

❻ N-Mark

Sends the set frequency and compander mode to the transmitter. It also detects the tuner about the frequency and compander mode set on the transmitter.

❼ Battery compartment

Accepts two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries).

For details on how to insert batteries, see "Power Supply" (page 18).

❽ Display section

Tuner 1   Tuner 2
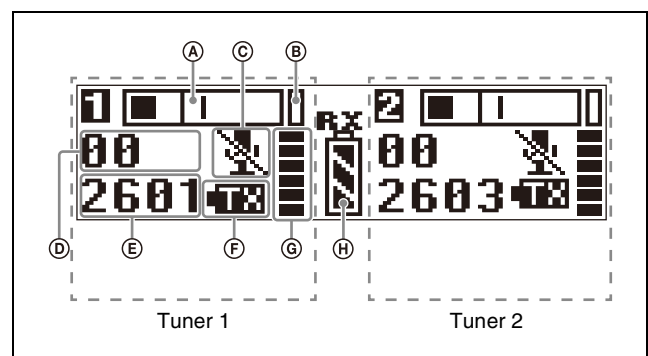
Ⓐ Audio input level meter

Displays the received audio signal level.

Ⓑ Peak indicator

Lights up when the signal is 3 dB below the level at which distortion begins as a warning of excessive input level.

© **Transmitter muting status indicator**

Displays an icon when the muting function of the transmitter being received is on.

Notes

- The icon is not displayed if the receive signal level is low.
- This function is enabled only when the transmitter is a UTX-B40/M40/P40.

Ⓓ **Group display**

Displays the configured receive group name.

Ⓔ **Channel display**

Displays the configured receive channel name.

Ⓕ **Transmitter power warning indicator**

Displays an icon when the remaining battery capacity of the transmitter being received is almost discharged.

Notes

- The icon is not displayed if the receive signal level is low.
- This function is enabled only when the transmitter is a UTX-B40/M40/P40.

Ⓖ **RF (radio frequency input) level meter**

Displays the RF input level. The number of lights will change depending on the input level.
6 lights: 60 dBμ or higher
5 lights: 50 dBμ to 60 dBμ
4 lights: 40 dBμ to 50 dBμ
3 lights: 30 dBμ to 40 dBμ
2 lights: 20 dBμ to 30 dBμ
1 light: 10 dBμ to 20 dBμ
No lights: 10 dBμ or lower

Ⓗ **Battery level indicator**

Displays the battery level. "USB" is displayed when power is supplied from the USB connector. "MI" is displayed when power is supplied from an SMAD-P5 (not supplied).

For details, see "Battery level indicator" (page 19).

❾ **NFC SYNC (NFC communication) button**

Press to start a channel scan and for NFC communication or IR SYNC with the transmitter.

For details, see "Operation" (page 23).

❿ **SET button**

Adjusts displayed function settings and enters the displayed value.

⓫ **MENU button**

Switches the menu to show on the display.

⓬ **PHONES (monitor) connector (3.5-mm diameter, stereo mini jack)**

Connect to headphones to monitor the audio output.

Note

Do not connect headphones with a monaural mini jack. This may short-circuit the headphone outputs, resulting in distorted sound output.

⓭ **OUTPUT 1/2 (audio output 1/2) connector (3.5-mm diameter, 3-pole locking mini jack, balanced output)**

Connect one end of the supplied XLR-BMP conversion output cable for the URX-P40/URX-P41D or the stereo mini plug-BMP conversion cable for the URX-P41D here and the other end to the microphone input on a camcorder, mixer, or amplifier.
If the microphone input connector on the connected device is a stereo mini jack, connect the straight (BMP) plug to the tuner and the L-shaped (stereo mini) plug to the microphone input connector on the device.

Notes

- To prevent damaging the tuner, do not apply a voltage to this connector from a microphone external power supply (MIC+48V) or other source.
- Connection to a plug-in power microphone input connector is supported using the stereo mini plug-BMP conversion cable for the URX-P41D.
- When the SMAD-P5 (option) is connected, connecting the stereo mini plug-BMP conversion cable for the URX-P41D to a camcorder microphone input may cause noise to occur. In that case, use the supplied shoe mount adaptor.
- When the stereo mini plug-BMP conversion cable for the URX-P41D is connected, the output becomes unbalanced.

⓮ **MIC INPUT (audio input) connector (3.5-mm diameter, stereo mini jack)**

Connect to plug-in power type external microphones and Sony BMP type lavalier microphones

⓯ **POWER switches**

Turns tuner 1 and tuner 2 on/off.

⓰ **USB connector (USB Type-C)**

Connect to a commercially available USB portable power supply.
When the power is turned on, the unit operates with power supplied by the USB portable power supply.

⓱ **Auxiliary connector**

Refer to the SMAD-P5 (option) operating instructions for details about attaching to this unit.

Power Supply

This section describes the power supply of each device.

Body-pack transmitter (UTX-B40) and plug-on transmitter (UTX-P40)
The unit operates using power supplied from two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries) or from a supply connected to the USB connector. If power is supplied simultaneously from batteries and from a supply connected to the USB connector, power from the USB connector has precedence. For details about inserting batteries in each device and displaying the battery level, or supplying power from a supply connected to the USB connector, see the following sections.

Hand-held microphone (UTX-M40)
The unit operates from two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries). For details about inserting batteries and displaying the battery level, see the following sections.

Portable diversity tuner (URX-P40/P41D)
The unit operates from two AA batteries (alkaline, nickel metal hydride, or lithium dry cell batteries), power supplied from a supply connected to the USB connector, or power supplied from the auxiliary connector. The power supply that has precedence when both AA battery power and an external power supply via the USB connector or auxiliary connector are available can be specified using the POWER SOURCE (external power selection) function. Under the factory default setting, the power supplied from inserted AA batteries has precedence. For details about inserting batteries and displaying the battery level, or supplying power from supply connected to the USB connector, see the following sections.

For details on the POWER SOURCE function setting, see "Selecting the preferred power supply (POWER SOURCE)" (URX-P40: page 33, URX-P41D: page 35).

Notes
- The use of manganese batteries will result in poor performance. Do not use manganese batteries.
- AA size rechargeable lithium-ion batteries cannot be used.

Inserting the batteries

Notes
- Always use sets of the same type of battery. Do not use batteries of different types or batteries with different charge level together.
- Replacing the batteries during operation may generate a large noise. Be sure to turn off the unit before replacing the batteries.

Body-pack transmitter (UTX-B40) / portable diversity tuner (URX-P40/P41D)

The following describes the procedure using illustrations for the body-pack transmitter (UTX-B40). Batteries can be inserted in the portable diversity tuner (URX-P40/P41D) in the same manner.

1 On the UTX-B40/URX-P40, press and hold the POWER button to turn the power off. On the URX-P41D, operate the two POWER switches to turn the power off.

2 Press and hold the buttons on the left and right sides, and pull off the battery compartment.
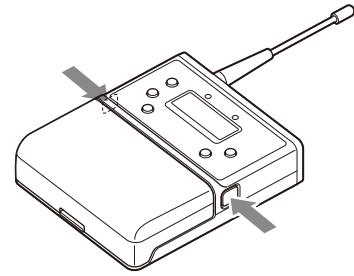
3 Open the battery compartment, insert two new AA batteries into the battery compartment with ⊕ and ⊖ polarities in the correct orientation, and reattach the compartment.
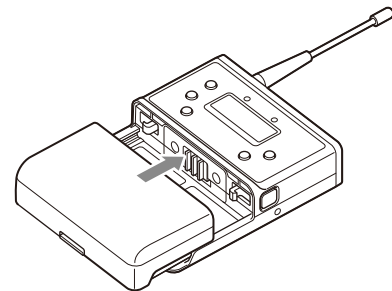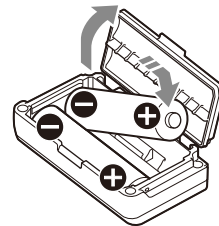
Make sure that the battery compartment is locked securely.

Note

When attaching the battery compartment, make sure that the battery compartment is locked securely on the left and right sides.
If either the left or right lock button is depressed, the battery compartment is not locked. Push the battery compartment in so that the lock buttons are flush with the sides of the device.
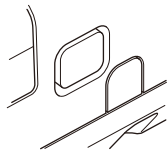
Locked   Unlocked
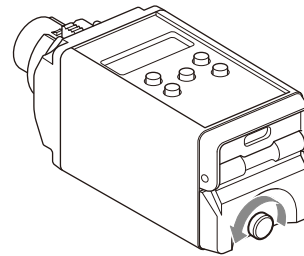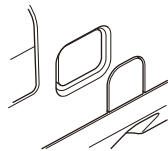
Hand-held microphone (UTX-M40)

1 Press and hold the POWER/MUTE button or POWER button to turn the power off.

Note

The button used to turn off power varies depending on the POWER/MUTE setting.

For details, see "Setting the operation of the audio muting function (POWER/MUTE) (UTX-M40 only)" (page 42).

2 Turn the grip in the direction of the arrow, and pull the grip down until the battery compartment is visible.
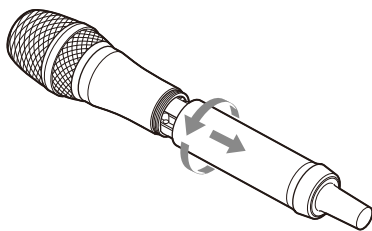
3 Insert two new AA batteries into the battery compartment with ⊕ and ⊖ polarities in the correct orientation.
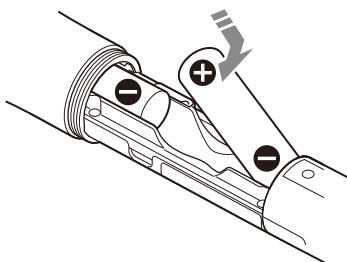
4 Close the grip, turning it in the reverse direction of step **2**.

Plug-on transmitter (UTX-P40)

1 Press and hold the POWER button to turn the power off.

2 Turn the battery compartment knob counterclockwise to open the cover.

3 Insert two new AA batteries into the battery compartment with ⊕ and ⊖ polarities in the correct orientation.
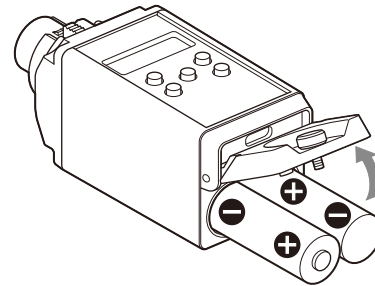
4 Close the battery compartment cover and turn the knob clockwise to lock the cover.

Check that the cover is fully closed before tightening the knob.

Battery level indicator

Turning the power on will display the battery level on the display.
Immediately replace both batteries with new batteries if the indicator starts flashing (indication 5 below). If using new alkaline batteries, use after checking the recommended time limits.

	Battery level indicator	Battery status
1	Lights	Good
2	Lights	Less than about 70% charge remaining
3	Lights	Less than about 40% charge remaining
4	Lights	Less than about 20% charge remaining
5	Flashes	Almost empty

Notes

- When BATTERY TYPE is set to TYPE1, the battery level is indicated based on the use of new LR6 (size AA) alkaline batteries from a specific manufacturer.

The battery level may not be displayed correctly when different kinds of batteries, different brand of batteries, or old batteries are used. If using batteries other than size AA alkaline batteries, select the battery type using the BATTERY TYPE function.
- Rechargeable nickel metal hydride batteries may experience deterioration in battery performance with repeated charging/discharging over time, and the remaining charge display may not accurately indicate the remaining charge.
- If you plan to use the transmitter continuously for a long period of time, it is recommended that you replace the batteries with brand new ones.
- Battery power is gradually consumed, even when the unit is turned off. Remove the batteries from the unit before prolonged periods of disuse.

For details on the BATTERY TYPE function setting, see "Setting the battery type (BATTERY TYPE)" (URX-P40: page 33, URX-P41D: page 35, UTX-B40/ M40/P40: page 43).

Battery precautions

Batteries may leak or explode if mistreated. Be sure to follow these instructions.
- Insert batteries in the correct ⊕ and ⊖ polarity orientation.
- Always replace the two batteries together with new ones.
- Do not use different types of batteries or old and new ones together.
- Batteries cannot be charged with this unit.
- When not using the device for a long period of time, remove the batteries. If the batteries leak for any reason, consult your Sony service representative.

Supplying power from a USB connector

The transmitter (UTX-B40/P40) and tuner (URX-P40/ P41D) can operate from a commercially available USB-output type AC adaptor or portable power supply connected to the USB connector.
When supplying power using a USB-output type AC adaptor or portable power supply, use a unit that satisfies the following conditions.
- Output connector: USB Type-C
- Rated voltage: 5 V
- Output current: 200 mA or higher

Displays "USB" when power is supplied from the USB connector.

Notes
- The UTX-M40 hand-held microphone cannot be supplied using a USB connector.
- Noise may occur in the audio depending on the AC adaptor or portable power supply that is connected. In such cases, you can reduce the noise by distancing the unit or lavalier microphone from the AC adaptor or

portable power supply or otherwise altering their positions.
- If a USB Type-C adaptor (from a different connector type) or a cable that does not comply with the USB Type-C standard is used, noise may occur or power may not be applied correctly. Always use cables that comply with the USB Type-C standard.

Supplying power from an SMAD-P5 (option)

The portable diversity tuner (URX-P40/P41D) can operate with cameras equipped with a multi-interface shoe, such as Sony video camera recorders and digital cameras that use an interchangeable lens, by connecting an SMAD-P5 (option) to the auxiliary connector. In addition, the power supply of the tuner and the camera can be linked.
By connecting this unit to an SMAD-P5 (option) and attaching to a camera equipped with a multi-interface shoe, audio signals can be sent from the tuner to the camera without the need for a cable. In addition, when connected to a camera equipped with a multi-interface shoe that supports digital audio input, the digital audio signal output from the tuner can be recorded directly by the camera.

Refer to the SMAD-P5 (option) operating instructions for details on how to attach it to the camera, how to link the power supply of the tuner with the camera, and how to switch the audio signal.

Note
When used with some cameras, operation of the power supply function and link on/off function with the SMAD-P5 (option) is not guaranteed.

For details, refer to the SMAD-P5 (option) operating instructions. For camera device information, visit the Sony website.

Attaching Accessories

This section describes how to attach the supplied accessories to each device.

Attaching accessories to the body-pack transmitter (UTX-B40)

Connecting the microphone

Microphone (supplied)

Tighten the threaded sleeve for a secure connection.
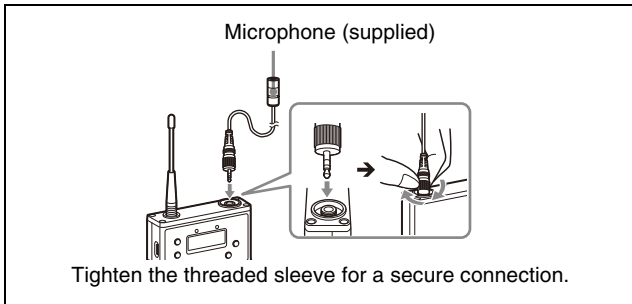
Note

Be sure to attach or remove the microphone after turning off the transmitter.

Attaching the holder clip to the microphone

① ②

Push the end of the microphone holder to expand the ring opening (①), and insert the microphone (②). Align the groove on the base of the microphone with the ring, then release the clip to secure the microphone.

To secure the microphone cable

Insert the microphone cable through the clamp of the holder clip.
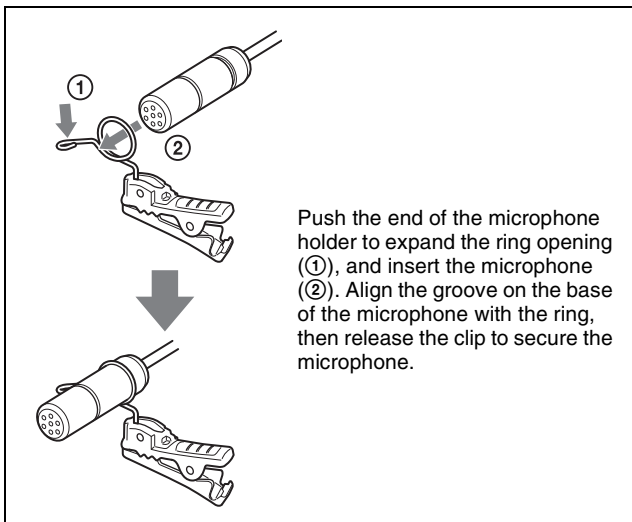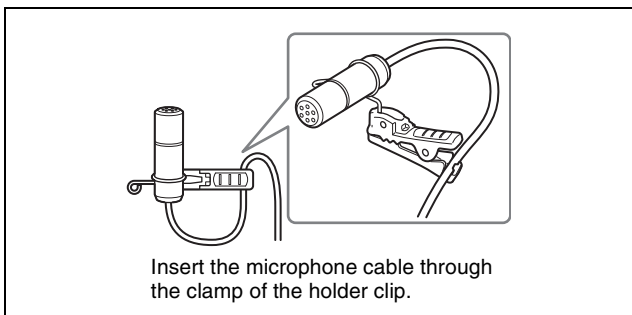
Attaching the wind screen to the microphone

Align and insert the microphone into the hole in the wind screen.

Attaching a belt clip

Insert one end of the belt clip into one of two holes on either side of the transmitter, and then insert the other end into the hole on the other side.

To remove a belt clip

Insert a pointed object, such as a ball-point pen, between the belt clip and the transmitter, and pry the end of the belt clip from the hole on the side of the transmitter.
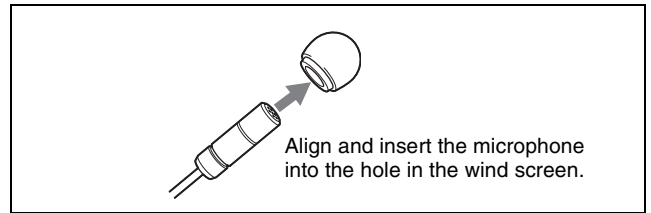
Attaching accessories to the hand-held microphone (UTX-M40)

Attaching the microphone holder

Insert the base of the microphone into the holder.
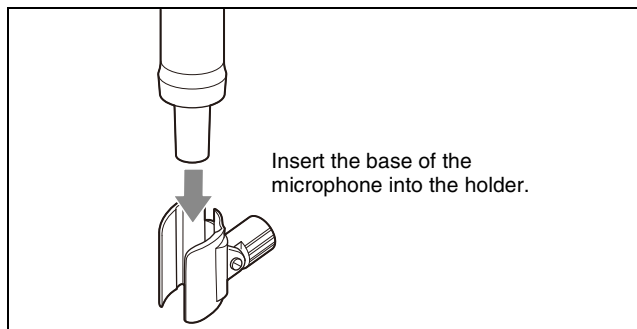
Replacing the microphone unit

Removing the microphone unit

Turn the microphone unit in the direction of the arrow.
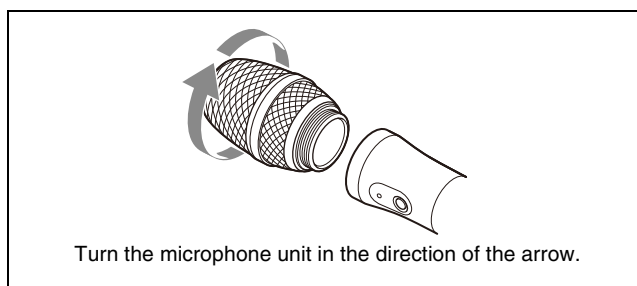
Attaching the microphone unit

Turn the microphone unit in the opposite direction from when you removed it, and make sure that the unit is securely attached to the microphone.

Attaching accessories to the plug-on transmitter (UTX-P40)

Attaching a microphone or cable

Microphone or cable connector

Push the microphone or cable connector (XLR-3-12C connector) into the audio input connector of the UTX-P40 until it clicks into place.
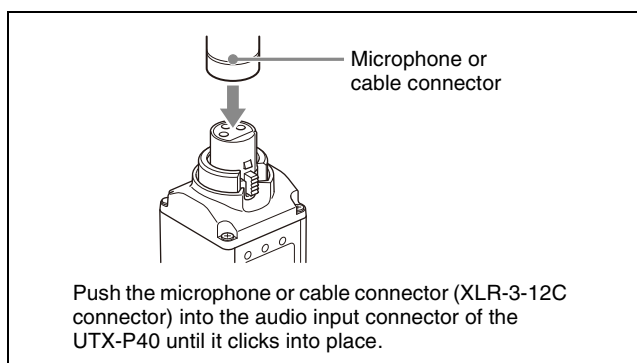
Disconnecting a microphone or cable

Microphone or cable connector

Release button

Press the release button firmly until the lock is fully released, and pull the microphone or cable out slowly.
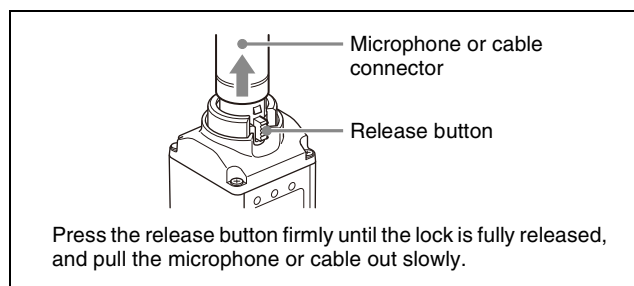
Attaching accessories to the portable diversity tuner (URX-P40/P41D)

Connecting the conversion cable to the OUTPUT connector

Example: XLR-BMP conversion output cable for the URX-P40/URX-P41D (supplied)

Tighten the threaded sleeve for a secure connection.
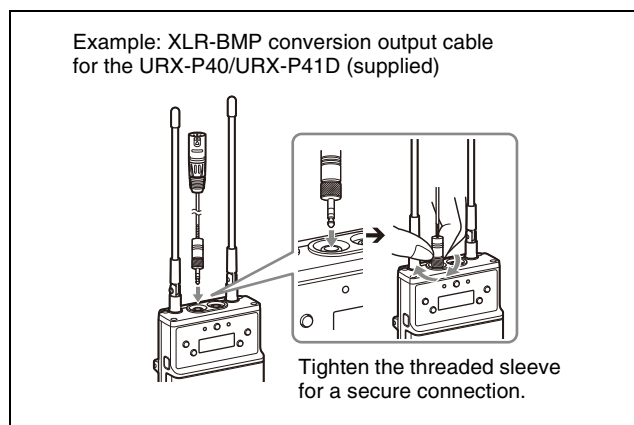
Attaching a belt clip

See "Attaching a belt clip" (page 21).

Attaching the shoe mount adaptor

Attach the belt clip before attaching the shoe mount adaptor *(page 21)*.

Note

Attach belt clips upside-down if planning to attach the shoe mount adaptor.

Push the bottom of the belt clip to make some space between the belt clip and the tuner (①), align the belt clip with the two vertical grooves on the shoe mount adaptor, and insert the adaptor in the direction of the arrow (②). Push the shoe mount adaptor in fully until the belt clip fits into the horizontal groove on the adaptor holds.
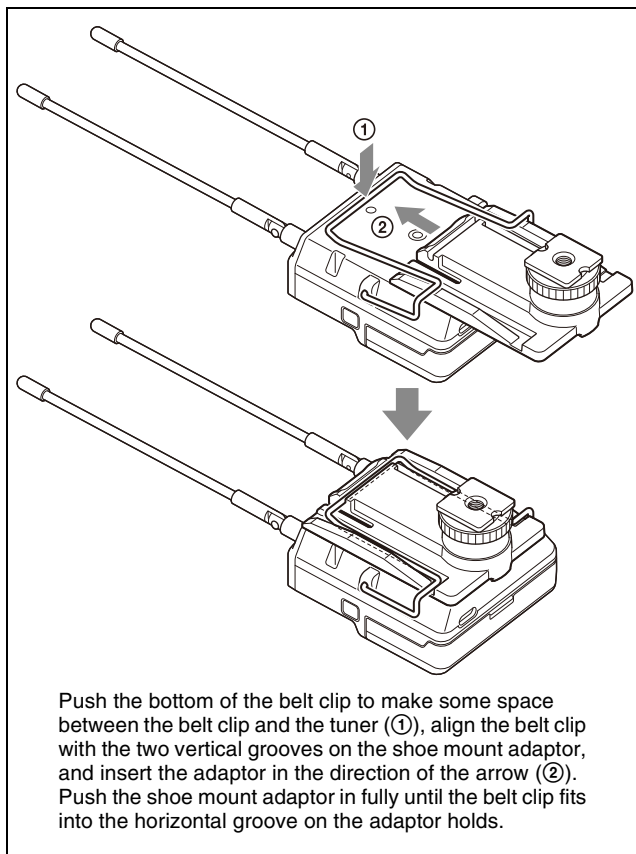
Note

If attaching a camcorder, bend the URX-P40/URX-P41D antenna down so that the antenna is not reflected on the display.

To remove the shoe mount adaptor

Push and hold the part labeled "PUSH" on the shoe mount adaptor (①), and disengage the horizontal part of the belt clip from the horizontal groove on the shoe mount adaptor (②). Then, push the shoe mount adaptor in the direction of the arrow (③).
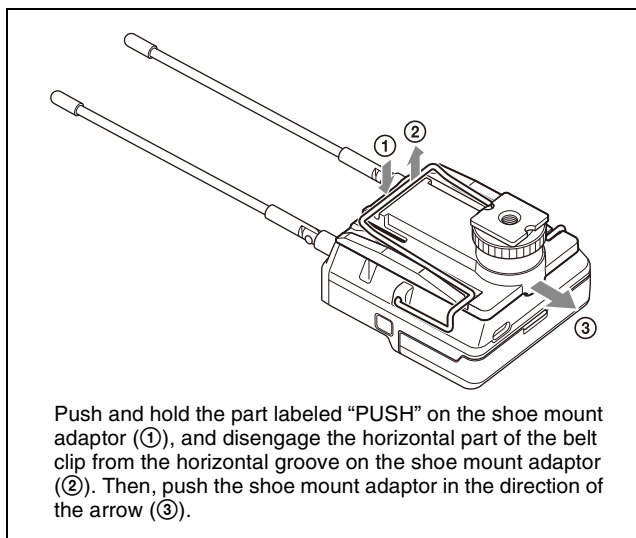
Operation

Procedure for all transmitters (UTX-B40/M40/P40) and portable diversity tuner (URX-P40)

1 Connect the tuner as required.

For details about example connections, see "System Configuration Example" (page 45).

2 Press and hold the POWER button for at least one second on the tuner to turn the power on.

Note

Some noise may occur when power is turned on. Accordingly, turn down the audio input level of devices connected to the tuner when turning the power on.

3 Press and hold the NFC SYNC button on the tuner for at least three seconds.

Clear Channel Scan starts searching for an available channel within the configured channel group.
When Clear Channel Scan finishes, the channel with the least noise and interference will be set.
When the channel is set, NFC communication starts automatically.

For details about how to set the group, see "Setting the receive channel" (page 27).

4 Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).

At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.

Example using a body-pack transmitter (UTX-B40). Similarly, place the N-Marks in close proximity when using other types of transmitters.
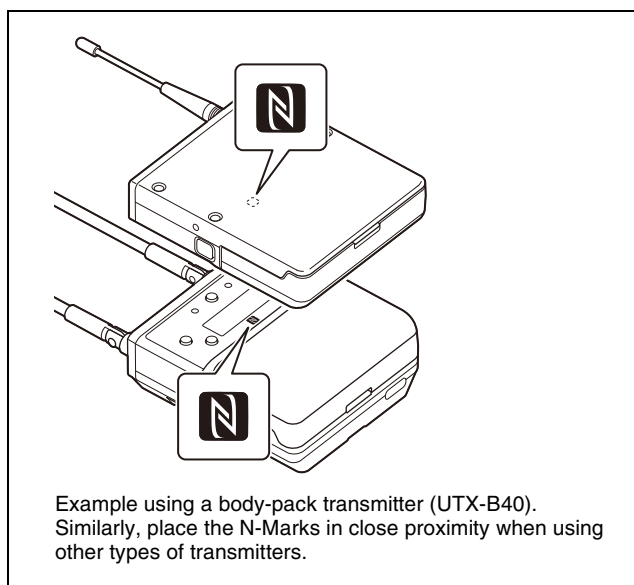
Information about the channel set on the tuner is sent to the transmitter, and then the transmit channel is set. "COMPLETE" is shown on the display of the transmitter and tuner, and the transmitter vibrates when setup is finished.
If the transmitter is turned off when NFC communication is initiated, the transmitter automatically turns on and starts transmitting.

Notes

- NFC communication lasts approximately 20 seconds. Perform step **4** within 20 seconds of performing step **3**. If 20 seconds have elapsed, you can reestablish NFC communication using the SYNC RX->TX menu on the tuner.
- Communications using NFC may be adversely affected, depending on the surrounding environment. If this occurs, use the SYNC RX->TX menu on the tuner to reestablish the link.
- If "COMPLETE" is shown on the display of the tuner but the transmitter does not vibrate, the setup may not be finished. If this occurs, use the SYNC RX->TX menu on the tuner to reestablish the link.

Procedure for portable diversity tuner (URX-P41D)

1 Connect the tuner as required.

For details about example connections, see "System Configuration Example" (page 45).

2 Turn on both the POWER switches or just the POWER switch for the tuner you want to use.

Note

Some noise may occur when power is turned on. Accordingly, turn down the audio input level of devices connected to the tuner when turning the power on.

3 Press and hold the NFC SYNC button on the tuner for at least three seconds.

Clear Channel Scan starts.

When GROUP is set in SCAN TYPE
Searches for an available channel within the configured channel group.
When Clear Channel Scan finishes, the channel with the least noise and interference will be set.
When the channel is set, NFC or infrared communication starts automatically.

For details about how to set the group, see "Setting the receive channel" (page 27).

Notes

- When both tuner 1 and tuner 2 are turned on, scans in the band group configured on tuner 1. Accordingly, the tuner 2 band setting is set to the same band group as tuner 1. To set different band groups on tuners 1 and 2, turn on only one of the tuners at a time and press the NFC SYNC button to start scanning.
- If you select a group other than a group that supports multiple channel operation and use two or more UWP-D series at the same time, interference may occur. Set the channel group taking into account multiple channels, or set it to an unaffected channel.

For details about the groups and channels in each frequency band, refer to the "Frequency List".

When ALL BAND is set in SCAN TYPE
Searches for a available channel from among the receive frequency bands. When the detected receive channel options and frequencies are displayed alternately, press the SET button to confirm.
To use the confirmed channel, press the SET button to start NFC or infrared communication. To select another option, press the + button and then press the SET button. This operation displays the next option.

For details about how to set SCAN TYPE, see "Selecting the scan type (SCAN TYPE)" (page 35).

Note

The SCAN TYPE menu is not available on the Japan model, Korea model, 90U model, and E model, so SCAN TYPE cannot be selected.

4 Send information about the channel set on the tuner to the transmitter.

When SYNC MODE is set to NFC
Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).
At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.
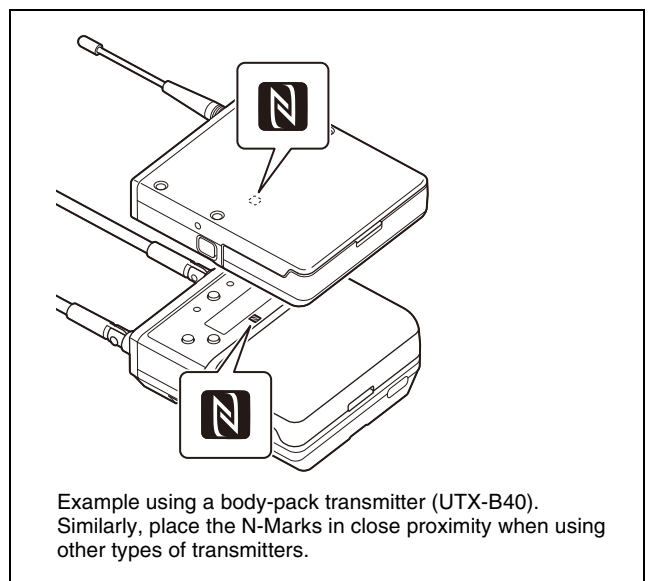
Example using a body-pack transmitter (UTX-B40).
Similarly, place the N-Marks in close proximity when using other types of transmitters.

Information about the channel and compander mode set on the tuner are sent to the transmitter, and then the transmit channel is set.

"COMPLETE" is shown on the display of the transmitter and tuner, and the transmitter vibrates when setup is finished.

If the transmitter is turned off when NFC communication is initiated, the transmitter automatically turns on and starts transmitting.

When both tuners 1 and 2 are turned on, the tuner 1 and transmitter settings are configured and then tuner 2 NFC communication starts. In the same way as for tuner 1, place the N-Marks on tuner 2 and the transmitter to set in close proximity.

Notes

- When SYNC MODE is set to IR, NFC communication is not possible.
  For details about how to set SYNC MODE, see *"Configuring using communication with the transmitter (SYNC MODE)" (page 35).*
- NFC communication lasts approximately 20 seconds. Perform step **4** within 20 seconds of performing step **3**. If more than 20 seconds have elapsed, a confirmation display appears prompting whether to start NFC communication. Restart the NFC communication.
- Communications using NFC may be adversely affected, depending on the surrounding environment.
- If "COMPLETE" is shown on the display of the tuner but the transmitter does not vibrate, the setup may not be finished. If this occurs, use the SYNC RX1 (2)->TX menu on the tuner to reestablish the link.

When SYNC MODE is set to IR

First press and hold the SET button on the transmitter and press and hold the POWER button for one second to turn the power on (transmission stopped mode), then place the infrared transmission port of the unit close to the infrared receptor of the transmitter. Information about the channel set on the tuner is sent to the transmitter, and a prompt appears on the transmitter display asking if you want to change to that frequency.

```
-L ■□ I □ MIC        (▨▨)
00    2601
SYNC?    NO    AUTO
```
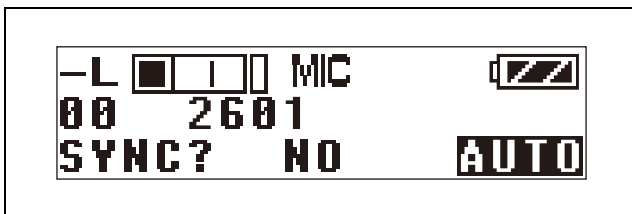
When both tuners 1 and 2 are turned on, the tuner 1 and transmitter settings are configured and then tuner 2 infrared communication starts. In the same way as for tuner 1, place the infrared receiver of the transmitter you want to set for tuner 2 close to the infrared transmission port of this unit.

Note

- When SYNC MODE is set to NFC, infrared communication is not possible.
  For details about how to set SYNC MODE, see *"Configuring using communication with the transmitter (SYNC MODE)" (page 35).*
- Infrared communication lasts approximately 10 seconds. Perform step **4** within 10 seconds of performing step **3**. If more than 10 seconds have elapsed, a confirmation display appears prompting whether to start infrared communication. Restart the infrared communication.
- Place the unit and transmitter within about 20 cm (8 in.) of each other.
- If five seconds elapse without any user input after the prompt appears on the transmitter display, the transmitter returns to its previous state without changing the frequency.
- Communications using the infrared link may be adversely affected, depending on the surrounding environment.

If noise is generated

Depending on the environment where the devices are installed, external noise or radio waves may disrupt transmission on certain channels. When selecting a channel under these circumstances, turn off the transmitter. Then, on the tuner, select a channel for which the RF indicator does not light up (i.e., a channel free from noise or radio wave interference). Set the same channel on the transmitter.

Note

To prevent interference or noise, take the following precautions.

- Do not use two or more transmitters on the same channels.
- When operating two or more UWP-D series packages simultaneously, set each package to a different channel within the same channel group.
- When using two or more frequencies simultaneously on the URX-P41D, set different channels within the same group.
- Keep the antennas on the tuner and transmitter separated by at least 3 meters (about 10 feet).
- When operating two or more UWP-D series packages simultaneously with different channel groups, make sure that they are at least 100 meters (330 feet) apart if they are used within clear sight of each other (actual distance may vary depending on the circumstances).

Tuner Settings

Menu structure and operation

Procedure for portable diversity tuner (URX-P40)

There are two menu display modes that can be selected according to the application.

Simple mode

This mode displays only the required settings for the tuner and audio output.
You can enable simple mode by setting MENU MODE (menu display mode) to SIMPLE.

Configuration menus
- GP/CH (group/channel) select
- PHONES (monitor audio) setting
- BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
- CLR CH SCAN (clear channel scan) function
- OUTPUT LEVEL (audio output level) setting
- SYNC RX->TX (NFC communication) function
- SYNC TX->RX (NFC communication) function
- POWER LOCK (POWER button lock) function
- RUNNING TIME (accumulated running time) display
- MENU MODE (menu display mode) setting

Advanced mode

This mode displays all configuration menus.
You can enable advanced mode by setting MENU MODE (menu display mode) to ADVANCED.

Note
The existing settings configured in advanced mode are active even when using simple mode.

Configuration menus
- GP/CH (group/channel) select
- PHONES (monitor audio) setting
- BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
- CLR CH SCAN (clear channel scan) function
- OUTPUT LEVEL (audio output level) setting
- SYNC RX->TX (NFC communication) function
- SYNC TX->RX (NFC communication) function
- POWER LOCK (POWER button lock) function
- RUNNING TIME (accumulated running time) display
- MENU MODE (menu display mode) setting
- MONITOR MODE (monitor audio level screen lock) function
- CH MEMORY (store previous channel) function
- POWER SOURCE (external power selection) setting
- ACT CH SCAN (active channel scan) function
- COMPANDER (compander mode) setting
- BATTERY TYPE (battery type) setting
- DISPLAY MODE (display setting) function
- BRIGHTNESS (display brightness) setting
- FCT RESET (factory default setting) function

- VERSION (software version) display

Basic menu operation

The basic menu operation is the same in simple mode and advanced mode.
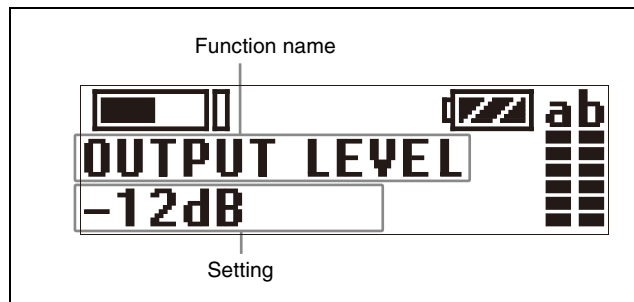
1. Press the + or – button to display the function to be set.

2. Press and hold the SET button until the setting starts flashing.

3. Press the + or – button to change the setting.

4. Press the SET button to enter the setting.

Note
If no operation is performed for 30 seconds, the display will turn off or will dim. Pressing any button will turn the display on again.

For details about display settings, see "Changing the display settings (DISPLAY MODE)" (page 33).

Procedure for portable diversity tuner (URX-P41D)

The menus and the hierarchy of each menu have the following structure.

UTILITY menu

You can display the UTILITY menu from the meter screen that displays various information about tuners 1 and 2.
The UTILITY menu is used to configure basic settings of the unit.

RX1 (tuner 1) menu

Configures RX1 (tuner 1) settings.

RX2 (tuner 2) menu

Configures RX2 (tuner 2) settings.

EXT.IN menu

Configures settings for a microphone connected to the MIC INPUT (audio input) connector.

Menu tree

```
MENU
                        <UTILITY>
    Meter screen ─┬─ PHONES
                  ├─ OUTPUT LEVEL
                  ├─ OUTPUT MODE
                  ├─ RUNNING TIME
                  ├─ MONITOR MODE
                  ├─ POWER SOURCE
                  ├─ SYNC MODE
                  ├─ SCAN TYPE
                  ├─ BATTERY TYPE
                  ├─ DISPLAY MODE
                  ├─ BRIGHTNESS
                  ├─ FCT RESET
                  └─ VERSION

    RX1 ─────────┬─ GP/CH
                 ├─ BAND
                 ├─ CLR CH SCAN
                 ├─ SYNC RX1->TX
                 ├─ SYNC TX->RX1
                 ├─ CH MEMORY
                 ├─ ACT CH SCAN
                 ├─ COMPANDER
                 └─ OUTPUT ASSIGN

    RX2 ─────────┬─ GP/CH
                 ├─ BAND
                 ├─ CLR CH SCAN
                 ├─ SYNC RX2->TX
                 ├─ SYNC TX->RX2
                 ├─ CH MEMORY
                 ├─ ACT CH SCAN
                 ├─ COMPANDER
                 └─ OUTPUT ASSIGN

    EXT.IN ──────┬─ MIC SELECT
                 ├─ INPUT LEVEL
                 ├─ LCF
                 ├─ PHASE
                 └─ OUTPUT ASSIGN

To meter screen
```

Notes

- The SCAN TYPE and BAND menus are not available on the Japan model, Korea model, 90U model, and E model.
- When SYNC MODE is set to IR, SYNC TX->RX1(2) is not displayed.

Basic menu operation

Menu name

Function name

Setting
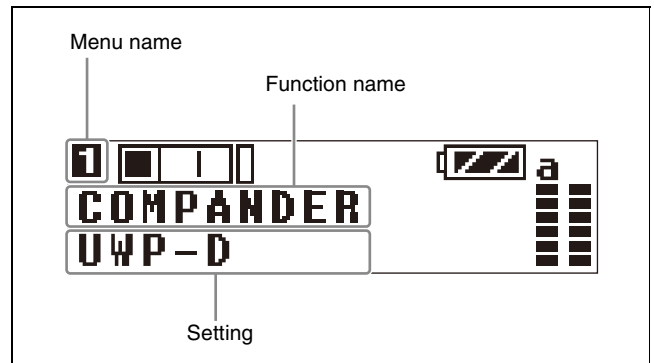
1 Press the MENU button and select the menu to set or change.

Each time you press the button, the display switches between the meter screen, RX1, RX2, EXT.IN, and meter screen in that order. To change an item in the UTILITY menu, display the meter screen.

2 Press the + or – button to display the function to be set.

3 Press and hold the SET button until the setting starts flashing.

4 Press the + or – button to change the setting.

5 Press the SET button to enter the setting.

Note

The menu for a tuner with the POWER switch in the OFF position is not displayed. If no operation is performed for 30 seconds, the display will turn off or will dim. Pressing any button will turn the display on again.

For details about display settings, see "Changing the display settings (DISPLAY MODE)" (page 36).

Setting the receive channel

Procedure for portable diversity tuner (URX-P40)

For details about the channel groups and channels that can be selected, refer to the "Frequency List".

1 Press the + or – button to display the GP/CH menu.

2 Press and hold the SET button for one second or longer.

The channel group display starts flashing.
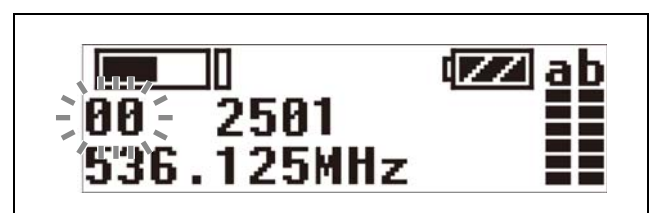
3 Press the + or – button to select the desired group name, then press the SET button.

The channel group is set, and the channel number display starts flashing.

4 Press the + or – button to select the desired channel number, then press the SET button.

The displays stops flashing and the desired channel is set.

Procedure for portable diversity tuner (URX-P41D)

For details about the channel groups and channels that can be selected, refer to the "Frequency List".

1 Press the MENU button to display the RX1 menu or RX2 menu, then press the + or – button to display the GP/CH screen.

2 Press and hold the SET button for one second or longer.

The channel group display starts flashing.
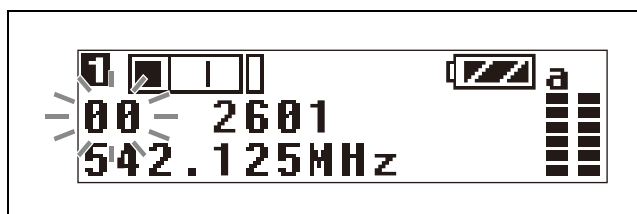
3 Press the + or – button to select the desired group name, then press the SET button.

The channel group is set, and the channel number display starts flashing.
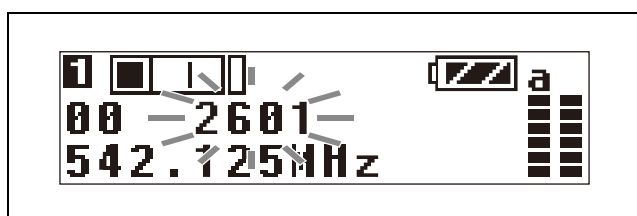
4 Press the + or – button to select the desired channel number, then press the SET button.

The displays stops flashing and the desired channel is set.

Notes

• If there is no user input within ten seconds after the channel group display or channel number display starts

flashing, the displayed setting that is flashing is saved. The same applies when setting other parameters.
• The frequency indicator changes in response to the channel number.
• The tuner continues to receive, even when setting the receive channel.
• Do not remove the batteries while setting the receive channel. If they are removed or the power is turned off, power the unit on again and repeat the procedure from the beginning.
• Make sure that the same channel is set on the transmitter and tuner within the same system.

Searching for available channels within a group (Clear Channel Scan)

Procedure for portable diversity tuner (URX-P40)
You can search for available channels within the specified channel group.
Before performing this procedure, select the channel group.

For details, see "Setting the receive channel" (page 27).

1 Press the + or – button to display the CLR CH SCAN menu.

2 Press and hold the SET button for one second or longer.

Press and hold until the channel group and "+" display starts flashing.
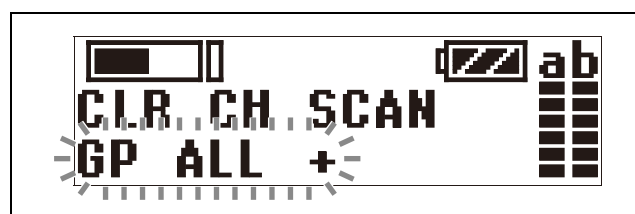
3 Press the + button.

The tuner starts to scan through the selected channel group. When available channels are found, the first channel number among the available channels starts flashing on the display.

To display the next available channel number
Press the + button.

To cancel searching
Press the – button. The display returns to the CLR CH SCAN menu.

4 Press the SET button when the desired channel number starts flashing.

The search for available channels finishes and the displayed channel is set.
Once a channel is confirmed, you can select whether to send the setting via NFC communication.

5 Select YES, and place the N-Marks of the transmitter and tuner in close proximity.

Information about the channel set on the tuner is sent to the transmitter, and then the transmit channel is set. If you do not want to set the transmitter channel, select NO or perform no action for ten seconds or longer to not send the setting to the transmitter.

To scan channels automatically

With the tuner power on, press and hold the NFC SYNC button for at least three seconds to automatically start a clear channel scan.

Procedure for portable diversity tuner (URX-P41D)

1 Press the MENU button to display the RX1 menu or RX2 menu, then press the + or – button to display the CLR CH SCAN screen.

2 Press and hold the SET button for one second or longer.

Press and hold until the channel group and "+" display starts flashing.

3 Press the + button.

When SCAN TYPE is set to GROUP
The tuner starts to scan for an available channel in the selected channel group. When available channels are found, the first channel number among the available channels starts flashing on the display.

To display the next available channel number
Press the + button.

To cancel searching
Press the – button. When you press the – button, the display returns to the CLR CH SCAN screen.

When SCAN TYPE is set to ALL BAND
The tuner starts to scan for an available channel within each group, and the available channels within those groups flash in ascending band group order.

To display the next group
Press the + button.

To cancel searching
Press the – button. When you press the – button, the display returns to the CLR CH SCAN screen.

For details about SCAN TYPE, see "Selecting the scan type (SCAN TYPE)" (page 35).

4 Press the SET button when the desired channel number starts flashing.

The search for available channels finishes and the displayed channel is set.
Once a channel is confirmed, you can send the setting via NFC communication or infrared communication, whichever is selected using SYNC MODE.

5 Send information about the channel set on the tuner to the transmitter.

When SYNC MODE is set to NFC
Select YES, and place the N-Marks of the transmitter and tuner in close proximity.

When SYNC MODE is set to IR
Select YES, and place the infrared transmission port of this unit and the infrared receptor of the transmitter in close proximity.
Information about the channel set on the tuner is sent to the transmitter, and then the transmit channel is set. If you do not want to set the transmitter channel, perform no action for ten seconds or longer. The settings are not sent to the transmitter.

For details about NFC communication or infrared communication, see "Configuring transmitter settings via NFC communication or infrared communication (SYNC RX1(2)->TX)" (page 36).

To scan channels automatically

With the tuner power on, press and hold the NFC SYNC button for at least three seconds to automatically start a clear channel scan.

Note

The configuration using the NFC SYNC button starts scanning for channels simultaneously on both tuners if both RX1 and RX2 are turned on. If you do not want to change channel on one of the tuners, turn the corresponding tuner off and then scan, or start a scan using CLR CH SCAN in the RX1 or RX2 menu.

Searching for active channels within a group (Active Channel Scan)

Procedure for portable diversity tuner (URX-P40)
You can search for channels in use within the specified channel group. This is useful when using more than one tuner in combination with a single transmitter.
Before performing this procedure, select the channel group.

For details, see "Setting the receive channel" (page 27).

1 Press the + or – button to display the ACT CH SCAN menu.

2 Press and hold the SET button for one second or longer.

Press and hold until the channel group and "+" display starts flashing.
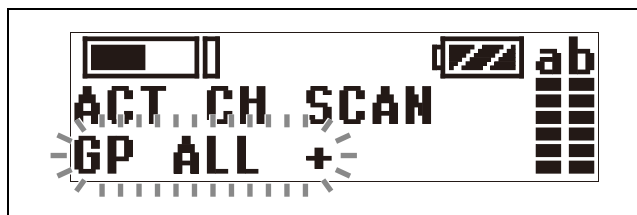
3 Press the + button.

The tuner starts to scan for active channels in the selected channel group. When active channels are found, the first channel number among the active channels starts flashing on the display.

To display the next active channel number
Press the + button.

To cancel searching
Press the – button. The display returns to the ACT CH SCAN menu.

4 Press the SET button when the desired channel number starts flashing.

The search for active channels finishes and the displayed channel is set.

Procedure for portable diversity tuner (URX-P41D)

1 Press the MENU button to display the RX1 menu or RX2 menu, then press the + or – button to display the ACT CH SCAN screen.

2 Press and hold the SET button for one second or longer.

Press and hold until the channel group and "+" display starts flashing.
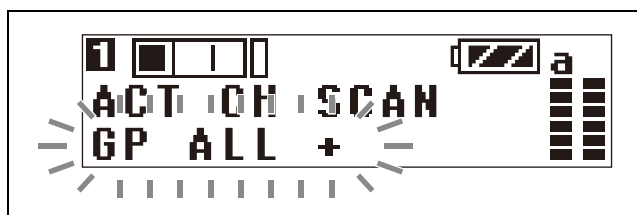
3 Press the + button.

The tuner starts to scan for active channels in the selected channel group. When active channels are found, the first channel number among the active channels starts flashing on the display.

To display the next active channel number
Press the + button.

To cancel searching
Press the – button. The display returns to the ACT CH SCAN screen.

4 Press the SET button when the desired channel number starts flashing.

The search for active channels finishes and the displayed channel is set.

Adjusting the monitor audio level

Procedure for portable diversity tuner (URX-P40)

You can set the monitor audio level within the range 1 to 16.

1 Press the + or – button to display the PHONES menu.

The current monitor audio level is displayed.

2 Press and hold the SET button for one second or longer.

Press and hold until the monitor audio level flashes.

3 Press the + or – button to set the desired monitor audio level, then press the SET button.

The setting value is stored. The setting is retained even after the power is turned off.

Procedure for portable diversity tuner (URX-P41D)

1 Press the MENU button to display the meter screen, then press the + or – button to display the PHONES screen.

The current monitor audio level is displayed.

2 Press and hold the SET button for one second or longer.

Press and hold until the monitor audio level flashes.

3 Press the + or – button to set the desired monitor audio level, then press the SET button.

The setting is saved and retained even after the power is turned off.

Configuration menu

Procedure for portable diversity tuner (URX-P40)
This section describes each function and configurable items.
Underlined entries indicate factory default settings.

Selecting the group/channel (GP/CH)

The factory default setting varies depending on the model.

For details, see "Setting the receive channel" (page 27).

Adjusting the monitor audio level (PHONES)

Adjusts the monitor audio level for the headphones. The factory default setting is 12.

For details, see "Adjusting the monitor audio level" (page 30).

Selecting the frequency band (BAND)

Selects the receive frequency band.

Note

This menu is not available on Japanese and Korean models. On these models, the frequency band cannot be selected.

For details about the groups and channels in each frequency band, refer to the "Frequency List".

Searching for and selecting available channels (CLR CH SCAN)

Searches for available channels.

For details, see "Searching for available channels within a group (Clear Channel Scan)" (page 28).

Setting the audio output level (OUTPUT LEVEL)

Sets the audio output level. You can set the level in 3 dB increments in the range –12 dB to +12 dB. The factory default setting is 0 dB.

Note

The monitor output level does not change when you change the output level in the OUTPUT LEVEL menu. The monitor output level is adjusted separately.

For details about adjusting the monitor audio level, see "Adjusting the monitor audio level" (page 30).

Configuring transmitter settings via NFC communication (SYNC RX->TX)

Transfers the frequency and compander mode set on the tuner to a transmitter using NFC communication.

1 Press the + or – button to display the SYNC RX->TX menu.

2 Press and hold the SET button for one second or longer.

A confirmation screen appears.

3 Press the + or – button to display "YES," and press the SET button.

4 Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).

At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.
The frequency and compander mode for use on the transmitter are set.

Notes

- NFC communication lasts approximately 20 seconds. Perform step **4** within 20 seconds of performing step **3**. After 20 seconds have elapsed, NFC communication automatically finishes and the GP/CH menu appears.
- During NFC communication, the signal from a wireless microphone cannot be received.

Reflecting transmitter settings on the tuner via NFC communication (SYNC TX->RX)

Accesses the frequency and compander mode set on the transmitter and reflects those settings on the tuner using NFC communication.

1 Press the + or – button to display the SYNC TX->RX menu.

2 Press and hold the SET button for one second or longer.

A confirmation screen appears.

3 Press the + or – button to display "YES," and press the SET button.

4 Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).

At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.

The frequency and compander mode for use on the tuner are set.

- NFC communication lasts approximately 20 seconds. Perform step **4** within 20 seconds of performing step **3**. After 20 seconds have elapsed, NFC communication automatically finishes and the GP/CH menu appears.
- During NFC communication, the signal from a wireless microphone cannot be received.

Locking the POWER button (POWER LOCK)

You can lock the POWER button to prevent the power being turned off inadvertently during reception.
UNLOCK: Press and hold the POWER button to turn the power on/off.
LOCK: The power does not turn off, even after pressing the POWER button.

To release the lock state
To release the lock state, either set the POWER LOCK menu to UNLOCK or use the following procedure.

1 When the button is in the LOCK state, press and hold the POWER button.

A prompt appears asking you whether to release the lock state.

2 Press the + or – button to select YES, then press the SET button.

The lock state is released.

Note

If the batteries are removed and reinserted while the POWER button is set to LOCK, the power will turn on automatically but the lock state of the POWER button does not change.

Displaying the accumulated running time (RUNNING TIME)

Displays the accumulated running time of the tuner as a guide to total usage time.
The factory default setting is 00:00. Up to 99:59 can be displayed.

To reset the time display

1 Press and hold the SET button until the time display starts flashing.

2 Press the – button to display "00:00 CLR" and press the SET button.

Pressing the + button when "00:00 CLR" is displayed causes the time display to start flashing. You can press the SET button in this state to cancel the reset of the accumulated running time.

Setting the menu display mode (MENU MODE)

Sets the menu display mode.
SIMPLE: Displays only the required settings.
ADVANCED: Displays all settings.

Using monitor audio level mode (MONITOR MODE)

When this function is enabled, the display shows the monitor audio level screen (fixed). Using the + or – button changes the monitor audio level only.

1 Press the + or – button to display the MONITOR MODE menu.

2 Press and hold the SET button for one second or longer.

3 Press the + or – button to display "ON," and press the SET button.

Monitor audio level mode is activated, and 🔲 is displayed.

To release monitor audio level mode

1 Press and hold the SET button, POWER button, or NFC SYNC button for one second or longer until "ESCAPE?" is displayed.

2 Press the + or – button to display "YES," and press the SET button.

The lock state is released.

Notes

- This function is displayed in advanced mode only.
- This function is released when the power is turned off. Reconfigure the setting after the power is turned on.

Switching to the previous channel (CH MEMORY)

You can switch to the previously set channel. This is useful when using one tuner in combination with two transmitters.
Set the channel you want to use beforehand.

For details about how to set the channel, see "Setting the receive channel" (page 27).

1 Press the + or – button to display the CH MEMORY menu.

2 Press and hold the SET button until "YES?" starts flashing.

3 Press the SET button.

The previously set channel and the currently set channel are displayed.

Press the + or – button to toggle between the channels.

To exit the CH MEMORY function

1 Press and hold the SET button until "CANCEL?" is displayed.

2 Press the + or – button to display "YES," and press the SET button.

The display returns to the CH MEMORY menu.

Notes

- This function is displayed in advanced mode only.
- If this function is enabled with the factory default channel settings, two factory default channels are displayed.
- The NFC SYNC button is disabled while using this function. Disable this function first if you want to use the NFC SYNC button.
- When BAND is changed, the default channel in the new band is stored as the previously set channel.

Selecting the preferred power supply (POWER SOURCE)

Specifies whether the power supply from the batteries inserted in the unit or from an external USB portable power supply or accessory connected to the USB connector or auxiliary connector has precedence.
BATT -> EXT: Batteries inserted in the unit have precedence.
EXT -> BATT: Power supplied from a USB connector or externally connected sources have precedence.
BATT ONLY: Batteries inserted in the unit are used, and power supplied from the USB connector or auxiliary connector is not used even after the batteries are discharged.

Notes

- When BATT -> EXT or EXT -> BATT is specified and power from the preferred source is cut off, the power supply automatically switches to the other source. Therefore, when only one power supply is available, that power supply will be used regardless of the POWER SOURCE setting. There may be a brief interruption in the audio when the power supply switches.
- When power is supplied from both the USB connector and an external connection connector, select the supply from the USB connector.

Setting the frequency to an active channel (ACT CH SCAN)

Searches for channels already in use. This is useful when using more than one tuner in combination with a single transmitter.

Note

This function is displayed in advanced mode only.

Setting the compander mode (COMPANDER)

Sets the operating mode of the compander.
UWP-D: High speech quality mode supported in combination with UWP-D series devices.
UWP: Mode supported in combination with Sony UWP-series transmitters.
WL800: Mode supported in combination with Sony 800-series transmitters.

Notes

- This function is displayed in advanced mode only.
- No audio is output if the tone signal frequency is different due to the use of a combination of devices with different compander mode settings.

Setting the battery type (BATTERY TYPE)

You can set the type of battery being used in order to provide a more accurate battery level indication.

TYPE1: Recommended setting when using alkaline LR6 (size AA) batteries. Indicates the battery level based on the characteristics of new alkaline LR6 (size AA) batteries from a specific manufacturer.
TYPE2: Recommended setting when using rechargeable nickel metal hydride batteries.
TYPE3: Recommended setting when using lithium dry cell batteries.

Notes

- This function is displayed in advanced mode only.
- The characteristics of batteries change according to battery type and environmental conditions. It is recommended that you understand the characteristics of batteries before using them.
- AA size rechargeable lithium-ion batteries cannot be used.

Changing the display settings (DISPLAY MODE)

Changes the display mode of the OLED display when 30 seconds have elapsed without any button activity.
AUTO OFF: If no button operation is performed for 30 seconds, the display will turn off. Press a button to turn on the display again.
DIMMER: If no button operation is performed for 30 seconds, the display will dim. Press a button to turn on the display again.

Note

This function is displayed in advanced mode only.

Setting the display brightness (BRIGHTNESS)

Adjusts the brightness of the OLED display using ten levels.
The configurable values are given below.
(Dark) **1 2 3 4 5 6 <u>7</u> 8 9 10** (Bright)

> **Note**
>
> This function is displayed in advanced mode only.

Restoring factory default settings (FCT RESET)

Restores all parameters to their factory default settings.
Press and hold the SET button. A prompt appears asking you whether to restore factory default settings. Press the + or – button to select YES, then press the SET button. The tuner parameters are restored to their factory default settings.

> **Notes**
>
> - This function is displayed in advanced mode only.
> - After a reset, the audio output level and monitor output level are also restored to their factory default settings. Note that this may cause the volume on connected devices and in headphones to suddenly change.

Displaying the software version (VERSION)

Displays the software version of the tuner.

> **Note**
>
> This function is displayed in advanced mode only.

UTILITY menu

Procedure for portable diversity tuner (URX-P41D)

The UTILITY menu contains items related to the basic settings of the unit.
This section describes the functions and menu items.
Underlined entries indicate factory default settings.

Adjusting the monitor audio level (PHONES)

Adjusts the monitor audio level for the headphones.
The factory default setting is 12.

For details about adjusting the monitor audio level, see "Adjusting the monitor audio level" (page 30).

Setting the audio output level (OUTPUT LEVEL)

Sets the audio output level. You can set the level in 3 dB increments in the range –12 dB to +12 dB. The factory default setting is 0 dB.

> **Note**
>
> The monitor output level does not change when you change the output level in the OUTPUT LEVEL menu. The monitor output level is adjusted separately.

For details about adjusting the monitor audio level, see "Adjusting the monitor audio level" (page 30).

Setting the audio output range (OUTPUT MODE)

Sets the audio output range of the OUTPUT 1/2 (audio output 1/2) connectors. You can set a wide range audio output level in combination with OUTPUT LEVEL.
<u>NORMAL GAIN</u>: Microphone level (reference level –60 dBV)
HIGH GAIN: High gain output mode (reference level –38 dBV)

> **Note**
>
> When outputting audio with the SMAD-P5 (option) connected, this function is not displayed. And the output from the OUTPUT 1/2 (audio output 1/2) connectors becomes NORMAL GAIN.

Displaying the accumulated running time (RUNNING TIME)

Displays the accumulated running time of the tuner as a guide to total usage time.
The factory default setting is 00:00. Up to 99:59 can be displayed.

To reset the time display

1 Press and hold the SET button until the time display starts flashing.

2 Press the – button to display "00:00 CLR" and press the SET button.

Pressing the + button when "00:00 CLR" is displayed causes the time display to start flashing. You can press the SET button in this state to cancel the reset of the accumulated running time.

Using monitor audio level mode (MONITOR MODE)

When this function is enabled, the display shows the monitor audio level screen (fixed). Using the + or – button changes the monitor audio level only.

1 Press the + or – button to display the MONITOR MODE menu.

2 Press and hold the SET button for one second or longer.

3 Press the + or – button to display "ON," and press the SET button.

Monitor audio level mode is activated, and ▣ is displayed.

To release monitor audio level mode

1 Press and hold the SET button, MENU button, or NFC SYNC button for one second or longer until "ESCAPE?" is displayed.

2 Press the + or – button to display "YES," and press the SET button.

The lock state is released.

Notes
- This function is released when the power is turned off. Reconfigure the setting after the power is turned on.
- When the POWER switch is set to the OFF position, the power of each tuner is also turned off.

Selecting the preferred power supply (POWER SOURCE)

Specifies whether the power supply from the batteries inserted in the unit or from an external USB portable power supply or accessory connected to the USB connector or auxiliary connector has precedence.
BATT->EXT: Batteries inserted in the unit have precedence.
EXT->BATT: Power supplied from a USB connector or externally connected sources have precedence.
BATT ONLY: Batteries inserted in the unit are used, and power supplied from the USB connector or auxiliary connector is not used even after the batteries are discharged.

Note
When BATT->EXT or EXT->BATT is specified and power from the preferred source is cut off, the power supply automatically switches to the other source. Therefore, when only one power supply is available, that power supply will be used regardless of the POWER SOURCE setting. There may be a brief interruption in the audio when the power supply switches.

Configuring using communication with the transmitter (SYNC MODE)

Sets the communication method for setting the transmitter channel and compander mode. When using NFC communication, the channel and compander mode set on the transmitter are applied on the unit.
NFC: Configure using NFC communication.
IR: Configure using infrared communication.

Note
The communication method will vary depending on the transmitter. Configuring using communication is not possible if the combination with the SYNC MODE setting is not correct.

Communication method for configuration on each transmitter		Tuner URX-P41D	
		NFC communication	Infrared communication
Transmitter	UTX-B40	○	○
	UTX-M40	○	○
	UTX-P40	○	○
	UTX-B03	×	○
	UTX-B03HR	×	○
	UTX-M03	×	○
	UTX-P03	×	○
	UWP-series transmitter	×	×
	WRT-series transmitter	×	×

Selecting the scan type (SCAN TYPE)

Selects the scan type when the NFC SYNC button is pressed, and the Clear Channel Scan and Active Channel Scan scan types.
GROUP: Scan the currently selected channel group.
ALL BAND: Scan the receive frequency band within a single TV channel and simultaneously scan each group that supports multiple channel operation.

Notes
- With ALL BAND, the group to scan is fixed. To scan other groups, select GROUP.
- The SCAN TYPE menu is not available on the Japan model, Korea model, 90U model, and E model, so SCAN TYPE cannot be selected.

For details about the groups and channels in each frequency band, refer to the "Frequency List".

Setting the battery type (BATTERY TYPE)

You can set the type of battery being used in order to provide a more accurate battery level indication.
TYPE1: Recommended setting when using alkaline LR6 (size AA) batteries. Indicates the battery level based on the characteristics of new alkaline LR6 (size AA) batteries from a specific manufacturer.
TYPE2: Recommended setting when using 2000 mAh rechargeable nickel metal hydride batteries.
TYPE3: Recommended setting when using lithium dry cell batteries.
TYPE4: Recommended setting when using 2500 mAh rechargeable nickel metal hydride batteries.

Notes
- The characteristics of batteries change according to battery type and environmental conditions. It is recommended that you understand the characteristics of batteries before using them.
- AA size rechargeable lithium-ion batteries cannot be used.

Changing the display settings (DISPLAY MODE)

Changes the display mode of the OLED display when 30 seconds have elapsed without any button activity.
AUTO OFF: If no button operation is performed for 30 seconds, the display will turn off. Press a button to turn on the display again.
DIMMER: If no button operation is performed for 30 seconds, the display will dim. Press a button to turn on the display again.

Setting the display brightness (BRIGHTNESS)

Adjusts the brightness of the OLED display using ten levels. The configurable values are given below.
(Dark) **1 2 3 4 5 6 7 8 9 10** (Bright)

Restoring factory default settings (FCT RESET)

Restores all parameters to their factory default settings. Press and hold the SET button. A prompt appears asking you whether to restore factory default settings. Press the + or – button to select YES, then press the SET button. The tuner parameters are restored to their factory default settings.

> **Note**
>
> After a reset, the audio output level and monitor output level are also restored to their factory default settings. Note that this may cause the volume on connected devices and in headphones to suddenly change.

Displaying the software version (VERSION)

Displays the software version of the tuner.

RX1/2 (tuner 1/2) menu

Procedure for portable diversity tuner (URX-P41D)
The RX1/2 menus are used to set the wireless receiver functions of the units.

For details about menu operations, see "Basic menu operation" (page 26).

Selecting the group/channel (GP/CH)

The factory default setting varies depending on the model.

For details, see "Setting the receive channel" (page 27).

Selecting the frequency band (BAND)

Selects the receive frequency band.

> **Note**
>
> This menu is not available on the Japan model, Korea model, 90U model, and E model. On these models, the frequency band cannot be selected.

For details about the groups and channels in each frequency band, refer to the "Frequency List".

Searching for and selecting available channels (CLR CH SCAN)

Searches for available channels.

For details, see "Searching for available channels within a group (Clear Channel Scan)" (page 28).

Configuring transmitter settings via NFC communication or infrared communication (SYNC RX1(2)->TX)

Transfers the frequency and compander mode set on the tuner to a transmitter using NFC communication or infrared communication selected using SYNC MODE.

For details about SYNC MODE, see "Configuring using communication with the transmitter (SYNC MODE)" (page 35).

1 Set the group/channel *(page 27)*.

2 Press the MENU button to display the RX1 menu or RX2 menu.

3 Press the + or – button to display the SYNC RX1(2)->TX screen.

4 Press and hold the SET button for one second or longer.

5 Press the + or – button to select YES, then press the SET button.

6 Send information about the channel set on the tuner to the transmitter.

When SYNC MODE is set to NFC
Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).
At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.
The frequency and compander mode for use on the transmitter are set.

> **Notes**
>
> • When SYNC MODE is set to IR, NFC communication is not possible.
> For details about how to set SYNC MODE, see *"Configuring using communication with the transmitter (SYNC MODE)" (page 35)*.

- NFC communication lasts approximately 20 seconds. Perform step **6** within 20 seconds of performing step **5**. If more than 20 seconds have elapsed, a confirmation display appears prompting whether to start NFC communication. Restart the NFC communication.
- During NFC communication, the signal from the configured tuner's wireless microphone cannot be received.

When SYNC MODE is set to IR

Press and hold the SET button on the transmitter and press and hold the POWER button for one second to turn the power on.

When the power is on, place the infrared transmission port of this unit and the infrared receptor of the transmitter in close proximity.

Information about the channel set on the unit is sent to the transmitter, and a prompt appears on the transmitter display asking if you want to change to that frequency.

Press the + or – button to select YES, then press the SET button on the transmitter. The transmit channel and compander mode are set.

Notes

- When SYNC MODE is set to NFC, infrared communication is not possible.
  For details about how to set SYNC MODE, see *"Configuring using communication with the transmitter (SYNC MODE)" (page 35).*
- Infrared communication lasts approximately 10 seconds. Perform step **6** within 10 seconds of performing step **5**. If more than 10 seconds have elapsed, a confirmation display appears prompting whether to start infrared communication. Restart the infrared communication.

Reflecting transmitter settings on the tuner via NFC communication (SYNC TX->RX1(2))

Accesses the frequency and compander mode set on the transmitter and reflects those settings on the tuner using NFC communication.

1 Press the + or – button to display the SYNC TX->RX menu.

2 Press and hold the SET button for one second or longer.

A confirmation screen appears.

3 Press the + or – button to select YES, then press the SET button.

4 Place the N-Marks of both the tuner and transmitter in close proximity (approximately 5 mm).

At this time, make sure that the transmitter is turned on or that the battery level is sufficient and the transmitter is turned off.

The frequency and compander mode for use on the tuner are set.

Notes

- NFC communication lasts approximately 20 seconds. Perform step **4** within 20 seconds of performing step **3**. If more than 20 seconds have elapsed, a confirmation display appears prompting whether to start NFC communication. Restart the NFC communication.
- During NFC communication, the signal from the configured tuner's wireless microphone cannot be received.
- When SYNC MODE is set to IR, the menu is not displayed and the function cannot be used.
  For details about SYNC MODE, see *"Configuring using communication with the transmitter (SYNC MODE)" (page 35).*

Switching to the previous channel (CH MEMORY)

You can switch to the previously set channel. This is useful when using one tuner in combination with two transmitters.
Set the channel you want to use beforehand.

For details about how to set a channel, see "Setting the receive channel" (page 27).

1 Press the + or – button to display the CH MEMORY menu.

2 Press and hold the SET button until "YES?" starts flashing.

3 Press the SET button.

The previously set channel and the currently set channel are displayed. Press the + or – button to toggle between the channels.

To exit the CH MEMORY function

1 Press and hold the SET button until "CANCEL?" is displayed.

2 Press the + or – button to display "YES," and press the SET button.

The display returns to the CH MEMORY menu.

Notes

- If this function is enabled with the factory default channel settings, two factory default channels are displayed.
- The NFC SYNC button is disabled while using this function. Disable this function first if you want to use the NFC SYNC button.
- When BAND is changed, the default channel in the new band is stored as the previously set channel.

Setting the frequency to an active channel (ACT CH SCAN)

Searches for channels already in use. This is useful when using more than one tuner in combination with a single transmitter.

For details, see "Searching for active channels within a group (Active Channel Scan)" (page 29).

Setting the compander mode (COMPANDER)

The compander mode must be switched depending on the transmitter to be combined with the unit.
You can set different compander modes for tuner 1 and tuner 2.

Notes

- When operating in conjunction with UWP-D series transmitters, set the compander mode of the transmitter to the same setting as the unit (URX-P41D).
- No audio is output if the tone signal frequency is different due to the use of a combination of devices with different compander mode settings.

1 Press the MENU button to display the RX1 menu or RX2 menu.

2 Press the + or – button to display the COMPANDER screen.

3 Press and hold the SET button for one second or longer.

The selected items starts flashing.
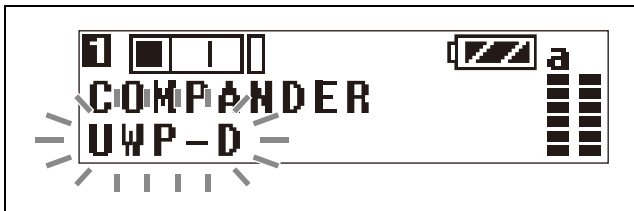
4 Press the + or – button to select the compander mode, then press the SET button.

The selected compander mode is set.
UWP-D: Select for combination with Sony UWP-D-series transmitters.
UWP: Select for combination with Sony UWP-series transmitters.
WL800: Select for combination with Sony WRT-series transmitters.

Transmitter and compander mode combinations

Configure the correct compander mode for the transmitter you are using.

Note

No audio will be output if the combination of transmitter and compander mode setting is incorrect.

Transmitter		Compander mode of unit		
		UWP-D	UWP	WL800
UWP-D series (UTX-B40, UTX-M40, UTX-P40, UTX-B03, UTX-M03, UTX-P03, UTX-B03HR)	Compander mode: UWP-D	○	×	×
	Compander mode: UWP	×	○	×
	Compander mode: WL800	×	×	○

Transmitter	Compander mode of unit		
	UWP-D	UWP	WL800
UWP series (UTX-B2, UTX-H2)	×	○	×
WRT series (WRT-822, WRT-860, etc.)	×	×	○

Selecting the connector for output of received audio (OUTPUT ASSIGN)

Selects the connector for output of the received signal.
The factory default settings are OUT1 for tuner 1 and OUT2 for tuner 2.
OUT1: Output audio from the OUTPUT 1 connector.
OUT1/2: Output audio from both the OUTPUT 1/2 connectors.
OUT2: Output audio from the OUTPUT 2 connector.
The following combination of output connector settings are supported.
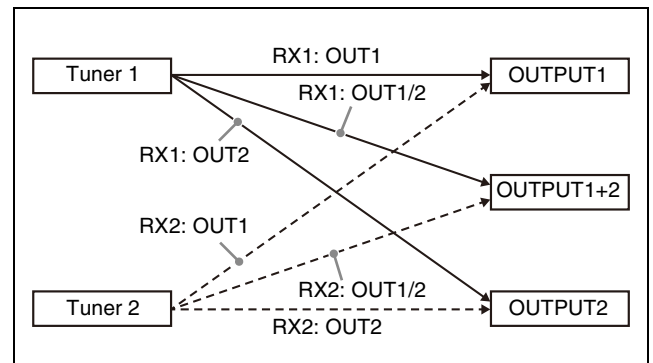
EXT.IN menu

Procedure for portable diversity tuner (URX-P41D)

The EXT.IN menu is used to configure settings for a microphone connected to the MIC INPUT (audio input) connector of the unit.

Selecting an external microphone to use (MIC SELECT)

Selects the type of microphone connected to the MIC INPUT (audio input) connector.

OFF: Select when not using an external microphone.
PLUG-IN PWR: Select when using an plug-in power type microphone.
MONO BMP+5V: Select when using a Sony lavalier microphone.

Adjusting the input level (INPUT LEVEL)

You can set the input level in the range –12 dB to +12 dB. Adjust according to the microphone to be connected. The factory default setting is 0 dB.

Setting the low-cut filter (LCF)

You can set the low-cut filter to reduce noise caused by wind.
You can set the cutoff frequency to OFF/LOW/MID/HIGH.
OFF: No filtering
LOW: 100 Hz cutoff frequency
MID: 150 Hz cutoff frequency
HIGH: 200 Hz cutoff frequency

Switching the phase of the microphone (PHASE)

You can switch the phase of a connected microphone to output audio in reverse phase.
NORMAL: Phase is not reversed.
INVERT: Reverses the phase internally.

Selecting the connector for output of input audio (OUTPUT ASSIGN)

Selects the connector for output of the input signal.
OUT1: Output audio from the OUTPUT 1 connector. If the connected microphone is a stereo (L/R) type, the signals are mixed for output.
OUT1/2 (L/R): Output audio from both the OUTPUT 1/2 connectors. If the connected microphone is a stereo (L/R) type, the L signal is output from OUTPUT 1 and the R signal is output from OUTPUT 2.
OUT2: Output audio from the OUTPUT 2 connector. If the connected microphone is a stereo (L/R) type, the signals are mixed for output.
The following combination of output connector settings are supported.
Parentheses ( ) indicate the output for stereo (L/R) type microphones.
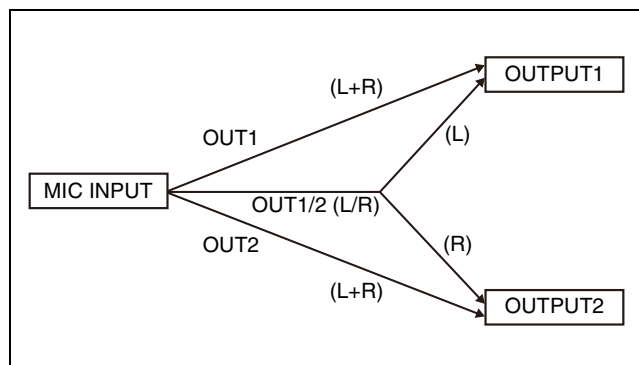
Transmitter Settings

Menu structure and operation

Procedure for all transmitters (UTX-B40/M40/P40)

There are three menu display modes that can be selected according to the application.

Simple mode

This mode displays only the required settings for transmitting audio.
You can enable simple mode by setting MENU MODE (menu display mode) to SIMPLE.

Configuration menus
• GP/CH (group/channel) select
• BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
• ATTENUATOR (attenuator) setting
• GAIN MODE (audio gain) setting
• LCF (low-cut filter) setting
• INPUT LEVEL (audio input level) select (UTX-B40/P40 only)
• RF POWER (RF transmit output level) select
• +48V SUPPLY (+48 V power supply) setting (UTX-P40 only)
• POWER LOCK (POWER button lock) function
• RUNNING TIME (accumulated running time) display
• MENU MODE (menu display mode) setting

Note

The following configuration menus cannot be modified during transmission. Set these menus in transmission stopped mode.
• GP/CH (group/channel) select
• BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
• RF POWER (RF transmit output level) select

Advanced mode

This mode displays all configuration menus.
You can enable advanced mode by setting MENU MODE (menu display mode) to ADVANCED.

Note

The existing settings configured in advanced mode are active even when using simple mode.

Configuration menus
• GP/CH (group/channel) select
• BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
• ATTENUATOR (attenuator) setting
• GAIN MODE (audio gain) setting
• LCF (low-cut filter) setting
• INPUT LEVEL (audio input level) select (UTX-B40/P40 only)

- RF POWER (RF transmit output level) select
- +48V SUPPLY (+48 V power supply) setting (UTX-P40 only)
- POWER LOCK (POWER button lock) function
- RUNNING TIME (accumulated running time) display
- MENU MODE (menu display mode) setting
- MUTE SETTING (audio muting setting) function (UTX-B40/P40 only)
- POWER/MUTE (power supply / audio muting) setting (UTX-M40 only)
- AUDIO PHASE (phase switching) setting (UTX-B40 only)
- COMPANDER (compander mode) setting
- OCUPNCY SENS (motion detection sensor mode) setting
- BATTERY TYPE (battery type) setting
- DISPLAY MODE (display setting) function
- BRIGHTNESS (display brightness) setting
- FCT RESET (factory default setting) function
- VERSION (software version) display

Note

The following configuration menus cannot be modified during transmission. Set these menus in transmission stopped mode.
- GP/CH (group/channel) select
- BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
- RF POWER (RF transmit output level) select
- FCT RESET (factory default setting) function

Transmission stopped mode

This mode allows settings to be modified when RF transmission has stopped.
Use this mode to make settings without risk of interrupting other wireless traffic when setting channels and other settings.
With the power off, press and hold the SET button and press the POWER button or POWER/MUTE button for at least one second to turn the power on and to display the transmission stopped mode menu.
The following configuration menus can only be modified in transmission stopped mode.
- GP/CH (group/channel) select
- BAND (frequency band) select (Not available on the Japan model, Korea model, 90U model, and E model)
- RF POWER (RF transmit output level) select
- FCT RESET (factory default setting) function

Basic menu operation

The basic menu operation is the same in simple mode, advanced mode, and transmission stopped mode.
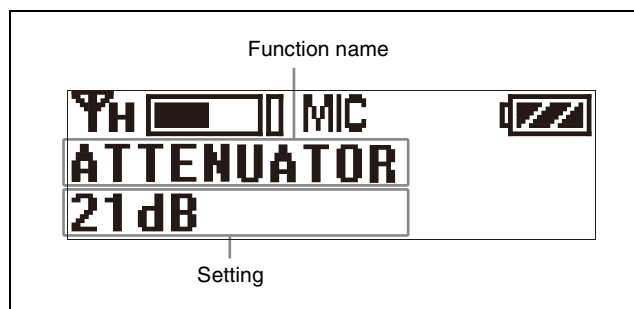
Function name

Setting

1 Press the + or – button to display the function to be set.

2 Press and hold the SET button until the setting starts flashing.

3 Press the + or – button to change the setting.

4 Press the SET button to enter the setting.

Note

If no operation is performed for 30 seconds, the display will turn off or will dim. Pressing any button will turn the display on again.

For details about display settings, see "Changing the display settings (DISPLAY MODE)" (page 43).

Setting the transmit channel

Procedure for all transmitters (UTX-B40/M40/P40)

For details about the channel groups and channels that can be selected, refer to the "Frequency List".

1 Press and hold the SET button and press and hold the POWER button or POWER/MUTE button to turn the power on in transmission stopped mode.

2 Press the + or – button to display the GP/CH menu.

3 Press and hold the SET button for one second or longer.

Press and hold until the channel group display starts flashing.
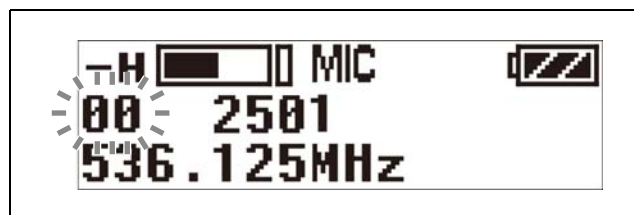
4 Press the + or – button to select the desired group name, then press the SET button.

The channel group is set, and the channel number display starts flashing.
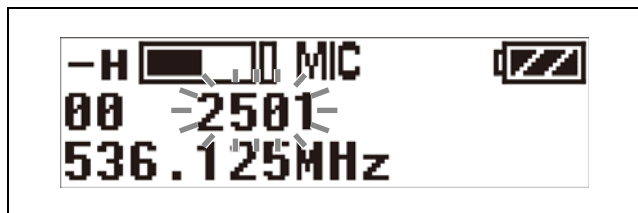
5 Press the + or – button to select the desired channel number, then press the SET button.

The displays stops flashing and the desired channel is set.

6 Press and hold the POWER button or POWER/ MUTE button to turn the power off.

Notes

- If there is no user input within ten seconds after the channel group display or channel number display starts flashing, the displayed setting that is flashing is saved. The same applies when setting other parameters.
- The frequency indicator changes in response to the channel number.
- This function can be modified in transmission stopped mode only.
- Do not remove the batteries while making settings. If they are removed, re-insert them and repeat the procedure from the beginning.
- Make sure that the same channel is set on the transmitter and tuner within the same system.

Configuration menu

Procedure for all transmitters (UTX-B40/M40/ P40)

This section describes each function and configurable items.
Underlined entries indicate factory default settings.

Selecting the group/channel (GP/CH)

The factory default setting varies depending on the model.

For details, see "Setting the transmit channel" (page 40).

Note

This function can be modified in transmission stopped mode only.

Selecting the frequency band (BAND)

Selects the transmit frequency band.

Notes

- This function can be modified in transmission stopped mode only.
- This menu is not available on Japanese and Korean models. On these models, the frequency band cannot be selected.

For details about the groups and channels in each frequency band, refer to the "Frequency List".

Adjusting the audio input attenuation level (ATTENUATOR)

You can set the audio input attenuation level in 3 dB increments to reduce noise distortion.
The factory default setting is 9 dB on the UTX-B40, and 0 dB on the UTX-M40/P40.

Notes

- On the UTX-B40/P40, "---" is displayed if INPUT LEVEL is set to LINE and GAIN MODE is set to AUTO GAIN, and the attenuation level cannot be modified (fixed).
- If the attenuation level is set too high, the noise level may increase. Set the level as close as possible to 0 dB if using a lavalier microphone attached to your torso.

Setting the audio gain (GAIN MODE)

AUTO GAIN: Sets the gain high, and uses a limiter to help prevent distortion.
NORMAL: Enables adjustment of the attenuation level. The attenuator can be adjusted to match the connected microphone.
15dB BOOST: Boosts the gain by 15 dB for when the microphone is not near the person's mouth and the audio level is insufficient.

Notes

- On the UTX-B40/P40, "---" is displayed if INPUT LEVEL is set to LINE, and the audio gain cannot be modified.
- When GAIN MODE is set to AUTO GAIN, the ATTENUATOR setting cannot be modified.
- Changing the GAIN MODE setting may cause the volume on devices connected to the tuner and in headphones to suddenly change.

Setting the low-cut filter (LCF)

You can set the low-cut filter to reduce noise caused by wind.
You can set the cutoff frequency to OFF/LOW/MID/ HIGH.
OFF: No filtering
LOW: 100 Hz cutoff frequency
MID: 150 Hz cutoff frequency
HIGH: 200 Hz cutoff frequency

Switching the audio input level (INPUT LEVEL) (UTX-B40/P40 only)

Sets the input level according to the audio input device. You can switch between MIC and LINE. The factory default setting is MIC.

Notes

- Do not switch this function to "MIC" when the audio input source is an audio mixer or other line level device.

If an excessive audio level is input, it may cause noise distortion or damage the playback/recording equipment.
• "---" is displayed for ATTENUATOR and GAIN MODE if INPUT LEVEL is set to LINE, and the settings cannot be modified.

Setting the transmit output level (RF POWER)

Set the transmitted RF power to HIGH or LOW. The transmit power level varies depending on the model.

Note

This function can be modified in transmission stopped mode only.

Setting the microphone drive power supply (+48V SUPPLY) (UTX-P40 only)

You can supply power from the transmitter when using a microphone that requires an external power supply.
When set to ON, power is supplied to the connected microphone and the +48 V indicator lights.
The factory default setting is OFF.

Locking the POWER button (POWER LOCK)

You can lock the POWER button to prevent the power being turned off inadvertently during transmission.
UNLOCK: Press and hold the POWER button to turn the power on/off.
LOCK: The power does not turn off, even after pressing the POWER button.

To release the lock state

To release the lock state, either set the POWER LOCK menu to UNLOCK or use the following procedure.

1 When the button is in the LOCK state, press and hold the POWER button.

A prompt appears asking you whether to release the lock state.

2 Press the + or – button to select YES, then press the SET button.

The power turns off.

Note

If the batteries are removed and reinserted while the POWER button is set to LOCK, the power will turn on automatically but the lock state of the POWER button does not change.

Displaying the accumulated running time (RUNNING TIME)

Displays the accumulated running time of the transmitter as a guide to total usage time.

The factory default setting is 00:00. Up to 99:59 can be displayed.

To reset the time display

1 Press and hold the SET button until the time display starts flashing.

2 Press the – button to display "00:00 CLR" and press the SET button.

Pressing the + button when "00:00 CLR" is displayed causes the time display to start flashing. You can press the SET button in this state to cancel the reset of the accumulated running time.

Setting the menu display mode (MENU MODE)

Sets the menu display mode.
SIMPLE: Displays only the required settings.
ADVANCED: Displays all settings.

Setting the operation of the audio muting function (MUTE SETTING) (UTX-B40/P40 only)

Pressing the MUTE button while transmitting mutes the audio so that audio from the tuner is not output.
This function sets whether the audio is muted for various operations of the MUTE button.
MUTE(ALT): Audio is muted when the MUTE button is pressed. Pressing the MUTE button again restores the audio output.
MUTE HOLD: Audio is muted while the MUTE button is pressed, and audio is output when the MUTE button is released.
PTT HOLD: Audio is output while the MUTE button is pressed, and audio is muted when the MUTE button is released.
DISABLE: Audio is not muted regardless of the MUTE button operation.

Setting the operation of the audio muting function (POWER/MUTE) (UTX-M40 only)

Pressing the POWER/MUTE button while transmitting mutes the audio so that audio from the tuner is not output.
This function sets whether the audio is muted for various operations of the POWER/MUTE button and whether the power is turned on/off using the POWER/MUTE button.
POWER/MUTE: Audio is muted when the POWER/ MUTE button is pressed. Pressing the POWER/MUTE button again restores the audio output. The power can be turned on/off by pressing and holding the POWER/ MUTE button for one second or longer.
MUTE(ALT): Audio is muted when the POWER/ MUTE button is pressed. Pressing the POWER/MUTE button again restores the audio output. The power cannot be turned on/off using the POWER/MUTE button.
MUTE HOLD: Audio is muted while the POWER/ MUTE button is pressed, and audio is output when the

POWER/MUTE button is released. The power cannot be turned on/off using the POWER/MUTE button.
PTT HOLD: Audio is output while the POWER/MUTE button is pressed, and audio is muted when the POWER/MUTE button is released. The power cannot be turned on/off using the POWER/MUTE button.
DISABLE: Audio is not muted regardless of the POWER/MUTE button operation. Also, the power cannot be turned on/off.

Switching the phase of the microphone (AUDIO PHASE) (UTX-B40 only)

You can switch the phase of a connected microphone (excluding the supplied lavalier microphone) to output audio in reverse phase.
NORMAL: Phase is not reversed. Set to NORMAL when the supplied lavalier microphone is connected.
INVERT: Reverses the phase within the transmitter.

> **Note**

This function is displayed in advanced mode only.

Setting the compander mode (COMPANDER)

Sets the operating mode of the compander.
UWP-D: High speech quality mode supported in combination with UWP-D series devices.
UWP: Mode supported in combination with Sony UWP-series tuners.
WL800: Mode supported in combination with Sony 800-series tuners.

> **Notes**

- This function is displayed in advanced mode only.
- No audio is output if the tone signal frequency is different due to the use of a combination of devices with different compander mode settings.

Setting motion detection sensor mode (OCUPNCY SENS)

Sets whether to reduce noise in the audio caused by an ultrasonic motion detection sensor.
When enabled, a high-cut filter is activated to reduce noise.
OFF: No filtering
LOW: 20 kHz cutoff frequency
HIGH: 15 kHz cutoff frequency

> **Note**

This function is displayed in advanced mode only.

Setting the battery type (BATTERY TYPE)

You can set the type of battery being used in order to provide a more accurate battery level indication.

TYPE1: Recommended setting when using alkaline LR6 (size AA) batteries. Indicates the battery level based on the characteristics of new alkaline LR6 (size AA) batteries from a specific manufacturer.
TYPE2: Recommended setting when using rechargeable nickel metal hydride batteries.
TYPE3: Recommended setting when using lithium dry cell batteries.

> **Notes**

- This function is displayed in advanced mode only.
- The characteristics of batteries change according to battery type and environmental conditions. It is recommended that you understand the characteristics of batteries before using them.
- AA size rechargeable lithium-ion batteries cannot be used.

Changing the display settings (DISPLAY MODE)

Changes the display mode of the OLED display when 30 seconds have elapsed without any button activity.
AUTO OFF: If no button operation is performed for 30 seconds, the display will turn off. Press a button to turn on the display again.
DIMMER: If no button operation is performed for 30 seconds, the display will dim. Press a button to turn on the display again.

> **Note**

This function is displayed in advanced mode only.

Setting the display brightness (BRIGHTNESS)

Adjusts the brightness of the OLED display using ten levels.
The configurable values are given below.
(Dark) **1 2 3 4 5 6 7 8 9 10** (Bright)

> **Note**

This function is displayed in advanced mode only.

Restoring factory default settings (FCT RESET)

Restores all parameters to their factory default settings. Press and hold the SET button. A prompt appears asking you whether to restore factory default settings. Press the + or – button to select YES, then press the SET button. The transmitter parameters are restored to their factory default settings.

> **Notes**

- This function can be used in transmission stopped mode only.
- After a reset, the audio input level is also restored to its factory default setting. Note that this may cause the volume on devices connected to the tuner and in headphones to suddenly change.

Displaying the software version (VERSION)

Displays the software version of the transmitter.

Note

This function is displayed in advanced mode only.

System Configuration Example

The following is a configuration example for use with UWP-D series devices.

Sample configuration for ENG (Electronic News Gathering) or EFP (Electronic Field Production) with a camcorder

For URX-P40 portable diversity tuner

Portable diversity tuner (URX-P40)
(with shoe mount adaptor attached or XLR-BMP cable connection)

Plug-on transmitter (UTX-P40)

or

Hand-held microphone (UTX-M40)

or

Body-pack transmitter (UTX-B40)

XDCAM EX/HDV camcorder (HXR-NX3, etc.)

① XLR-BMP conversion output cable (supplied)

For URX-P41D portable diversity tuner

Up to two devices

Portable diversity tuner (URX-P41D)
(shoe mount adaptor attached or XLR-BMP cable connection)

Plug-on transmitter (UTX-P40)

Hand-held microphone (UTX-M40)

Body-pack transmitter (UTX-B40)

XDCAM EX/HDV camcorder (HXR-NX3, etc.)

① XLR-BMP conversion output cable (supplied)

Error Messages

When a problem occurs, one of the following error messages may appear on the display.

Message	Meaning	Solution
EEP ERROR	An error has occurred in the backup memory data.	Contact your point of purchase or Sony service representative.
PLL ERROR	An error occurred in the PLL synthesizer circuit.	Restart the unit. If the message persists, contact your point of purchase or Sony service representative.
NO TONE	Audio signal output has been muted, because a tone signal different from the compander mode configured on the tuner was received.	Configure the compander mode for the transmitter you are using (see "Setting the compander mode (COMPANDER)" (*page 38* or *page 43*). When operating in conjunction with UWP-D series transmitters (UTX-B40, UTX-M40, etc.), set the tuner and the transmitters to the same compander mode.

Troubleshooting

If you have any problem, use the following checklist before asking for repairs. If the problem persists, contact your point of purchase or Sony service representative.

Symptom	Cause	Solution
The unit does not turn on.	The ⊕ and ⊖ polarity orientation of the batteries is incorrect.	Insert the batteries with the correct polarity orientation *(page 18)*.
	The batteries are getting low.	Replace the batteries with new ones.
	The battery terminals are dirty.	Clean the ⊕ and ⊖ terminals, and the battery compartment terminals[4] with a cotton swab.
	Batteries are not inserted despite POWER SOURCE being set to BATT ONLY.[3]	Insert batteries, or change the POWER SOURCE setting (URX-P40: *page 33*, URX-P41D: *page 35*).
	The SMAD-P5 (option) is not connected correctly to the camera or tuner.	Refer to the SMAD-P5 (option) operating instructions and check that devices are attached correctly.[3]
	The power supplies for the tuner and camera are not linked.	Refer to the SMAD-P5 (option) operating instructions and check that devices are started in the correct sequence.[3]
The unit does not turn off.	The POWER/MUTE button is locked.[5]	Release the locked status in the POWER LOCK menu *(page 42)*.
	The unit is set so that power cannot be turned on/off using the POWER/MUTE button.[6]	Set the POWER/MUTE menu to POWER/MUTE, or turn the unit off using the POWER button *(page 42)*.
The batteries become drained quickly.	The batteries are getting low.	Replace the batteries with new ones.
	Manganese batteries are being used.	Use alkaline batteries. The battery life of a manganese battery is less than half that of an alkaline battery.
	The device is being used under cold conditions.	The batteries drain quickly under cold conditions.
The channel cannot be changed.[1]	The unit is not in transmission stopped mode.	Turn off the unit, and then turn it on again while holding down the SET button to switch to transmission stopped mode *(page 40)*.

Symptom	Cause	Solution
There is no sound.	The channel setting on the transmitter is different from that on the tuner.	Use the same channel setting on both the transmitter and tuner.
	The transmitter is not transmitting signals, or the transmission output is weak.	Confirm that the transmitter is turned on. Alternatively, reduce the distance between the transmitter and tuner.
	The transmitter is set to line level input.[2]	Switch to microphone input *(page 42)*.
	The compander mode setting on the transmitter is different from that on the tuner.	Use the same compander mode setting on both the transmitter and tuner (UTX-B40/M40/P40: *page 43*, URX-P40: *page 33*, URX-P41D: *page 38*).
	The transmitter is muted.[1]	Press the POWER/MUTE button on the transmitter to release the muted state.
		The MUTE SETTING menu (POWER/MUTE menu on the UTX-M40) is set to PTT HOLD. Change the setting *(page 42)*.
	The audio output connector settings are incorrect.[7]	Set the audio output connector settings in the OUTPUT ASSIGN menu *(page 38)*.
	The Analog/Digital switch of the SMAD-P5 (option) is not set correctly.	Refer to the SMAD-P5 (option) operating instructions and change to the correct setting.[3]
	If no sound is emitted from the microphone connected to the MIC INPUT connector, the external microphone is set to OFF or the microphone type is set incorrectly.[7]	Configure the microphone setting to match the type of microphone using the MIC SELECT menu *(page 38)*.
The sound is weak.	The attenuation level on the transmitter is too high.	The input level of the transmitter is low. Set the attenuation of the transmitter to an appropriate level *(page 41)*.
	The volume on the amplifier or mixer is low.	Adjust the volume to an appropriate level.
	The transmitter is set to line level input.[2]	Switch to microphone input *(page 42)*.
	The compander mode setting on the transmitter is different from that on the tuner.	Use the same compander mode setting on both the transmitter and tuner (UTX-B40/M40/P40: *page 43*, URX-P40: *page 33*, URX-P41D: *page 38*).
	The supplied cable and the connected device are not connected correctly.	Check the operating instructions for the connected device and connect the device correctly.
	If the sound emitted from the microphone connected to the MIC INPUT connector is low, the configured level does not match the connected microphone.[7]	Adjust the level according to the connected microphone using the INPUT LEVEL menu *(page 39)*.
The sound is distorted.	The attenuation level on the transmitter is too low or is set to 0.	The input level is extremely high. Set the attenuation on the transmitter so that the audio is not distorted *(page 41)*.
	The GAIN MODE menu of the transmitter is set to 15dB BOOST.	The input level is extremely high. Change the GAIN MODE setting so that the sound is not distorted *(page 41)*.
	The channel setting on the transmitter is different from that on the tuner.	Use the same channel setting on both the transmitter and tuner.
	Headphones with a monaural mini jack are being used.[3]	Use headphones with a stereo mini jack.
	The OUTPUT MODE menu of the tuner is set to HIGH GAIN.[7]	The output level is extremely high. Change the OUTPUT MODE setting to NORMAL so that the sound is not distorted *(page 34)*.
	If the sound emitted from the microphone connected to the MIC INPUT connector is distorted, the microphone type is set incorrectly.[7]	Configure the microphone setting to match the type of microphone using the MIC SELECT menu *(page 38)*.
The attenuator cannot be set.	The GAIN MODE menu is set to AUTO GAIN, or the INPUT LEVEL menu is set to LINE.	Change the GAIN MODE menu and INPUT LEVEL menu settings *(page 41)*.

Symptom	Cause	Solution
There is sound interruption or noise.	The channel setting on the transmitter is different from that on the tuner.	Use the same channel setting on both the transmitter and tuner.
	Two or more transmitters are set to the same channel.	Two or more transmitters cannot be used on the same channel. Refer to the frequency list, and reconfigure the channel on each transmitter.
	The transmitters are not set to the channels within the same channel group.	The channel plan is set so that no signal interference occurs when two or more transmitters are used simultaneously. Set each transmitter to a different channel within the same channel group.
	Adjacent channels are being used.	Use the channels separated by at least two channels (250 kHz).
	If you hear a beeping noise or a beep in sync with the access lamp of the camcorder, the media of the camcorder may be being accessed or interference with the GPS block may be occurring.[3]	Raise OUTPUT LEVEL by up to +12 dB on the tuner side (URX-P40: *page 31*, URX-P41D: *page 34*), and lower the reference input level on the camcorder side by the same amount.
	If crackling or squealing noise occurs, interference from the Wi-Fi block of the camcorder may be occurring.[3]	Raise OUTPUT LEVEL by up to +12 dB on the tuner side (URX-P40: *page 31*, URX-P41D: *page 34*), and lower the reference input level on the camcorder side by the same amount. Alternatively, turn off the Wi-Fi function of the camcorder.
	If hum noise occurs, interference from the LCD backlight block of the camcorder may be occurring.[3]	Raise OUTPUT LEVEL by up to +12 dB on the tuner side (URX-P40: *page 31*, URX-P41D: *page 34*), and lower the reference input level on the camcorder side by the same amount. Alternatively, set the viewfinder brightness on the camcorder to "Mid" or "Low".
	Noise from the camcorder may be being superimposed in the tuner.[3]	Raise OUTPUT LEVEL by up to +12 dB on the tuner side (URX-P40: *page 31*, URX-P41D: *page 34*), and lower the reference input level on the camcorder side by the same amount.
	The distance between the transmitter and tuner is short.	Move the transmitter and tuner further apart.
	If the received signal level is too high, noise may be generated by the tuner side which is not currently set to receive.	Turn off the unused tuner.[7]
The noise is louder when connected with SMAD-P5 (option) than when connected with the XLR-BMP conversion output cable (supplied with the URX-P40/URX-P41D) for a tuner.	The reference input level and reference recording level are different for each camcorder input connector, or the audio level is not set correctly.[3]	Adjust the reference input level and reference recording level of the camcorder, or adjust OUTPUT LEVEL on the tuner to set the appropriate audio level.
The RF indicator on the tuner lights up even when the transmitter is off.	Jamming radio waves are being received.	Set the channel on the tuner to a channel for which the RF indicator does not light, or use the Clear Channel Scan function to switch to a channel without interference. Then, set the transmitter to the same channel as the tuner. If using two or more transmitters, change to a channel group that is not affected.
The transmitter channel cannot be set with infrared transmission.	The infrared receptor on the transmitter is too far from the infrared transmission port on the tuner.[8]	Reduce the distance between the infrared receptor on the transmitter and the infrared transmission port on the tuner to within about 20 cm (8 in.).
	Interference from infrared communications between other devices or from direct sunlight is present.[8]	The transmitting distance is reduced when interference from strong sunlight, for example, is present. Place the transmitter and tuner as close to each other as possible.
	The SYNC MODE menu setting is NFC.[7]	Change the SYNC MODE setting to IR *(page 35)*.

Symptom	Cause	Solution
The transmitter channel cannot be set via NFC communication.	The N-Marks of both units are not facing each other, or they are too far apart. Or there may be some metallic object between the N-Marks.	Place the N-Marks approximately 5 mm from each other. Make sure there are no metallic or other objects near them.
	The grip is open.[6]	
	The SYNC MODE menu setting is IR.[7]	Change the SYNC MODE setting to NFC *(page 35)*.

1) Body-pack transmitter (UTX-B40) / hand-held microphone (UTX-M40) / plug-on transmitter (UTX-P40) only
2) Body-pack transmitter (UTX-B40) / plug-on transmitter (UTX-P40) only
3) Portable diversity tuner (URX-P40) / portable diversity tuner (URX-P41D) only
4) Body-pack transmitter (UTX-B40) / portable diversity tuner (URX-P40) / portable diversity tuner (URX-P41D) only
5) Body-pack transmitter (UTX-B40) / plug-on transmitter (UTX-P40) / portable diversity tuner (URX-P40) only
6) Hand-held microphone (UTX-M40) only
7) Portable diversity tuner (URX-P41D) only
8) Body-pack transmitter (UTX-B40) / hand-held microphone (UTX-M40) / plug-on transmitter (URX-P40) / portable diversity tuner (URX-P41D) only

Important Notes on Use

The use of some frequency bands may be restricted by law, depending on the country or region. Check in advance before use.

The NFC communication function is used only for communication between a transmitter and a tuner. It cannot be used for communication with other devices.

Notes
- Always verify that the unit is operating properly before use. SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION OR REIMBURSEMENT ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS DUE TO FAILURE OF THIS UNIT, EITHER DURING THE WARRANTY PERIOD OR AFTER EXPIRATION OF THE WARRANTY, OR FOR ANY OTHER REASON WHATSOEVER.
- SONY WILL NOT BE LIABLE FOR CLAIMS OF ANY KIND MADE BY USERS OF THIS UNIT OR MADE BY THIRD PARTIES.
- SONY WILL NOT BE LIABLE FOR THE TERMINATION OR DISCONTINUATION OF ANY SERVICES RELATED TO THIS UNIT THAT MAY RESULT DUE TO CIRCUMSTANCES OF ANY KIND.

Condensation

If the unit is suddenly taken from a cold to a warm location, or if ambient temperature suddenly rises, moisture may form on the outer surface of the unit and/or inside of the unit. This is known as condensation. If condensation occurs, turn off the unit and wait until the condensation clears before operating the unit. Operating the unit while condensation is present may damage the unit.

OLED panel

Due to the characteristics of the material used in the OLED panel, permanent burn-in or reduction in brightness may occur.
These problems are not a malfunction.

Consumable parts

The life expectancy of the electrolytic capacitor is about 5 years under normal operating temperatures and normal usage (8 hours per day; 25 days per month). If usage exceeds the above normal usage frequency, the life expectancy may be reduced correspondingly.

Do not place this product close to medical devices

This product (including accessories) has magnet(s) which may interfere with pacemakers, programmable shunt valves for hydrocephalus treatment, or other medical devices. Do not place this product close to persons who use such medical devices. Consult your doctor before using this product if you use any such medical device.

Usage and storage

- Operating the UWP-D series devices near electrical equipment (motors, transformers, or dimmers) may cause interference due to electromagnetic induction. Keep the devices as far from such equipment as possible.
- The presence of lighting equipment may produce electrical interference over a wide frequency range. In this case, interference may fluctuate with the position of the tuner antenna and position of the transmitter. Position the devices so that interference is minimized.
- To avoid degradation of the signal to noise ratio, do not use UWP-D devices in noisy places or in locations subject to vibration, such as the following:
  – Near electrical equipment, such as motors, transformers, or dimmers
  – Near air conditioning equipment or places subject to direct air flow from an air conditioner
  – Near PA (public address) loudspeakers
  – Near equipment that might knock against the tuner
  Keep devices as far from such equipment as possible or use buffering material.

Cleaning

Clean the surface and the connectors of devices with a dry, soft cloth. Never use thinners, benzene, alcohol, or any other chemicals, since these may mar the finish.

To prevent electromagnetic interference
Some channels may be unable to be used due to noise generated due to the effects of external noise and/or radio interference. In this case, it is recommended to stop transmitting (turn the power off) or change to another frequency (change channel).

To prevent electromagnetic interference from portable communications devices
The use of portable telephones and other communications devices near this unit can result in malfunctions and interference with audio and video signals.
It is recommended that the portable communications devices near this unit be powered off.

Specifications

The N-Mark is a trademark or registered trademark of NFC Forum, Inc. in the United States and in other countries.
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Design and specifications are subject to change without notice.

Transmitter (UTX-B40/M40/P40)

Items common to all transmitters

Oscillator type   Crystal-controlled PLL synthesizer
Carrier frequencies
    14UC/14LA model: 470.125 MHz to 541.875 MHz
    (UHF-TV channels 14 to 25)
    25UC/25LA model: 536.125 MHz to 607.875 MHz
    (UHF-TV channels 25 to 36)
    90U model: 941.625 MHz to 951.875 MHz, 953.000 MHz to 956.125 MHz, and 956.625 MHz to 959.625 MHz
    21CE model: 470.025 MHz to 542.000 MHz
    (UHF-TV channels 21 to 29)
    33CE model: 566.025 MHz to 630.000 MHz
    (UHF-TV channels 33 to 40)
    42CE model: 638.025 MHz to 694.000 MHz
    (UHF-TV channels 42 to 48)
    42LA model: 638.125 MHz to 697.875 MHz
    (UHF-TV channels 42 to 51)
    29CN model: 638.025 MHz to 694.000 MHz
    (UHF-TV channels 29 to 35)
    KR model: 925.125 MHz to 937.375 MHz
    E model: 794.125 MHz to 805.875 MHz
    TW model: 510.125 MHz to 529.875 MHz
Preemphasis   50 μs
Reference frequency deviation
    ±5 kHz (–60 dBV, 1 kHz input)
Distortion   0.9% or less (–60 dBV, 1 kHz input)
Signal-to-noise ratio
    60 dB (–60 dBV, 1 kHz input)
    102 dB (GAIN MODE set to AUTO GAIN, max.)
    96 dB (GAIN MODE set to NORMAL, max.)
Audio delay   Approx. 0.35 ms

Tone signal frequency
    In UWP-D compander mode: 32.382 kHz
    In UWP compander mode: 32 kHz
    In WL800 compander mode: 32.768 kHz
Supply voltage   DC 3.0 V (two LR6/AA size alkaline batteries)
    DC 5.0 V (supplied from USB connector)
NFC function   Built-in
IR SYNC function
    Built-in
USB port   USB Type-C
Operating temperature
    0 °C to 50 °C (32 °F to 122 °F)
Storage temperature
   –20 °C to +55 °C (–4 °F to +131 °F)

Note

When used in locations with an ambient temperature of 45 °C (113 °F) or higher, make sure the unit does not come into direct contact with your skin, as it may cause burns due to high temperature.

Body-pack transmitter (UTX-B40)

Antenna   1/4 λ wavelength wire antenna
Audio input connector
    3.5-mm diameter 3-pole locking mini jack
Reference audio input level
    –60 dBV (MIC input, GAIN MODE set to NORMAL, 0 dB attenuation)
    +4 dBu (LINE input)
RF output level   30 mW/5 mW selectable (UC, U, CE, LA, CN, TW models)
    10 mW/2 mW selectable (E, KR models)
Frequency response
    23 Hz to 18 kHz (Typical)
Attenuation   0 dB to 27 dB (3 dB steps)
Indicators   POWER, AUDIO/MUTE
Battery life (measured with two 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, TW models)
    Approx. 10 hours with output power of 10 mW (E, KR models)

Dimensions
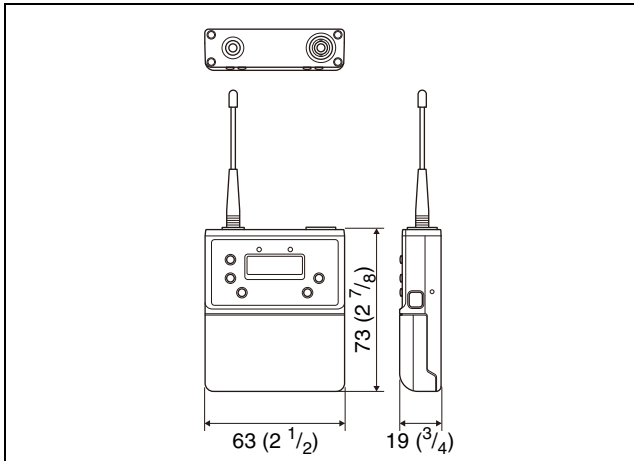
$63 \times 73 \times 19$ mm ($2\,^1/_2 \times 2\,^7/_8 \times ^3/_4$ in.)
(width / height / depth)
(excluding antenna)

Mass   Approx. 83 g (2.9 oz)
(excluding batteries)

Lavalier microphone (ECM-V1BMP)

Type   Electret condenser microphone
Frequency response
     40 Hz to 20,000 Hz
Directivity   Omni-directional
Sensitivity   –43.0 dB ±3 dB
     (0 dB = 1 V/Pa, at 1 kHz)
Operating temperature
     0 °C to 50 °C (32 °F to 122 °F)
Storage temperature
     –20 °C to +55 °C (–4 °F to +131 °F)
Cable   2.3 mm diameter, 2-conductor shielded
     cable, 1.2 m (3.9 feet) long
Dimensions $\phi 6.8 \times 19.5$ mm ($^9/_{32} \times ^{25}/_{32}$ in.)
     (without cable and connector)
Mass   Approx. 16.2 g (0.57 oz)

Hand-held microphone (UTX-M40)

Microphone unit
     Dynamic
Directivity   Unidirectional
Antenna   1/4 λ wavelength wire antenna
Reference audio input level
     –55 dBV (GAIN MODE set to
     NORMAL, 0 dB attenuation)
Maximum audio input level
     151 dB SPL (21 dB attenuation, using
     supplied microphone unit)
RF output level   30 mW/5 mW selectable (UC, U, CE,
     LA, CN, TW models)
     10 mW/2 mW selectable (E, KR
     models)
Frequency response
     70 Hz to 18 kHz (Typical)
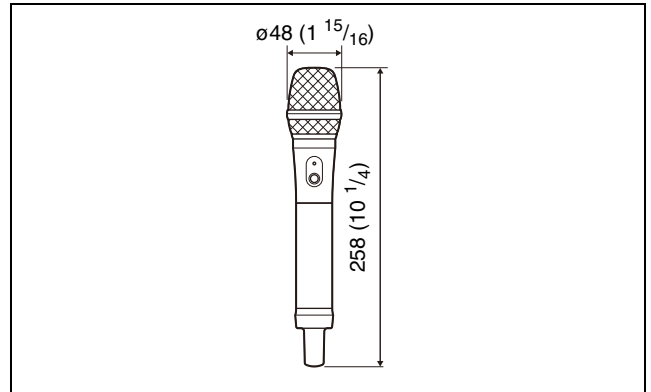Attenuation   0 dB to 21 dB (3 dB steps)
Indicator   POWER/MUTE

Battery life (measured with two 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, TW
     models)
     Approx. 10 hours with output power of
     10 mW (E, KR models)
Dimensions

$\phi 48 \times 258$ mm ($1\,^{15}/_{16} \times 10\,^1/_4$ in.)
(diameter / length)
Mass   Approx. 255 g (9.0 oz)
(excluding batteries)

Plug-on transmitter (UTX-P40)

Reference audio input level
     –60 dBV (MIC input, GAIN MODE set
     to NORMAL, 0 dB attenuation)
RF output level
     40 mW/5 mW selectable (UC, U, LA,
     TW models)
     30 mW/5 mW selectable (CE, CN
     models)
     10 mW/2 mW selectable (E, KR
     models)
Frequency response
     23 Hz to 18 kHz (Typical)
Attenuation   0 dB to 48 dB (3 dB steps)
Audio input connector
     XLR-3-11C type (female)
Indicators   POWER, AUDIO/MUTE, +48V
Battery life (measured with two 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, TW models)
     Approx. 8 hours with output power of
     30 mW (CE, CN models)
     Approx. 10 hours with output power of
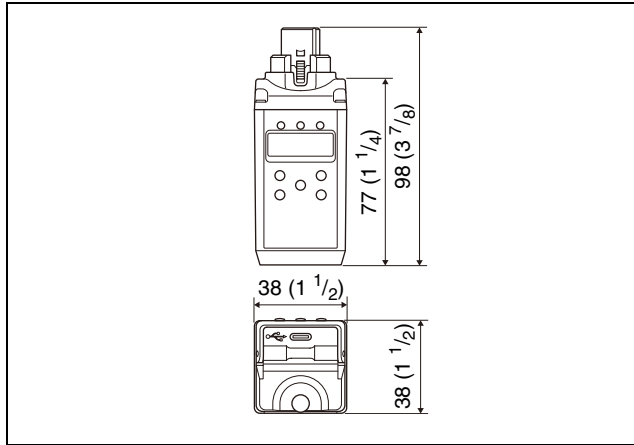   10 mW (E, KR models)
     During +48V ON and ECM-673
     connection:
     Approx. 6 hours with output power of
     40 mW (UC, U, LA, TW models)
     Approx. 6 hours with output power of
     30 mW (CE, CN models)

Approx. 7 hours with output power of
10 mW (E, KR models)

Dimensions

38 × 98 × 38 mm (1 $^1/_2$ × 3 $^7/_8$ × 1 $^1/_2$ in.)
(width / height / depth)
(including the audio input connector)

Mass   Approx. 139 g (4.9 oz)
(excluding batteries)

Tuner (URX-P40/P41D)

Items common to all tuners

Antenna   1/4 λ wavelength wire antenna (angle-adjustable)

Audio output level variation range
–12 dB to +12 dB (3 dB steps)

Audio output connector
3.5-mm diameter 3-pole locking mini jack, Auxiliary connector

Headphone output level
10 mW max. (16-ohm)

Headphone output connector
3.5-mm diameter mini jack

Local oscillator   Crystal-controlled PLL synthesizer

Receive frequencies
14UC/14LA model: 470.125 MHz to
541.875 MHz
(UHF-TV channels 14 to 25)
25UC/25LA model: 536.125 MHz to
607.875 MHz
(UHF-TV channels 25 to 36)
90U model: 941.625 MHz to
951.875 MHz, 953.000 MHz to
956.125 MHz, and 956.625 MHz to
959.625 MHz
21CE model: 470.025 MHz to
542.000 MHz
(UHF-TV channels 21 to 29)
33CE model: 566.025 MHz to
630.000 MHz
(UHF-TV channels 33 to 40)
42CE model: 638.025 MHz to
694.000 MHz
(UHF-TV channels 42 to 48)

42LA model: 638.125 MHz to
697.875 MHz
(UHF-TV channels 42 to 51)
29CN model: 638.025 MHz to
694.000 MHz
(UHF-TV channels 29 to 35)
KR model: 925.125 MHz to
937.375 MHz
E model: 794.125 MHz to 805.875 MHz
TW model: 510.125 MHz to
529.875 MHz

Signal-to-noise ratio
60 dB (1 kHz sine wave, 5 kHz
modulation)
96 dB (1 kHz sine wave, max deviation)

Audio delay   Approx. 0.35 ms (analog output)
Approx. 0.24 ms (digital output)

Deemphasis   50 µs

Reference frequency deviation
±5 kHz

Frequency response
23 Hz to 18 kHz (Typical)

Distortion   0.9% or less (1 kHz sine wave, 5 kHz
modulation)

Tone signal frequency
In UWP-D compander mode:
32.382 kHz
In UWP compander mode: 32 kHz
In WL800 compander mode:
32.768 kHz

Operating temperature
0 °C to 50 °C (32 °F to 122 °F)

Storage temperature
–20 °C to +55 °C (–4 °F to +131 °F)

Note

When used in locations with an ambient temperature of
45 °C (113 °F) or higher, make sure the unit does not
come into direct contact with your skin, as it may cause
burns due to high temperature.

USB port   USB Type-C
Supply voltage   DC 3.0 V (two LR6/AA size alkaline
batteries)
DC 5.0 V (supplied from USB
connector)

Portable diversity tuner (URX-P40)

Audio output level
–60 dBV (3.5-mm diameter 3-pole
locking mini jack, analog output,
0 dB audio output level)
–20 dBFS (auxiliary connector, digital
output, 0 dB audio output level)
–50 dBV (auxiliary connector, analog
output, 0 dB audio output level)

Reception method
True diversity method

Indicators   POWER, RF
NFC function   Built-in

Battery life   Approx. 6 hours (measured with two
                      LR6/AA size alkaline batteries at
                      25 °C (77 °F), DISPLAY MODE set
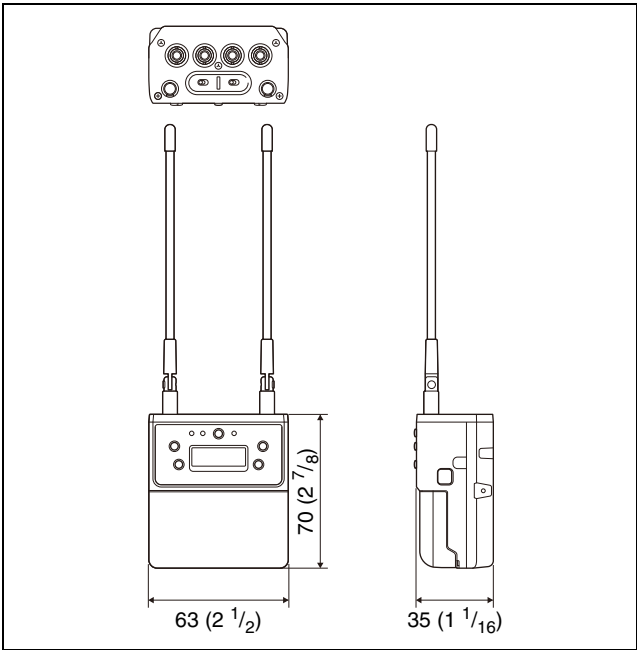   to AUTO OFF)
Dimensions
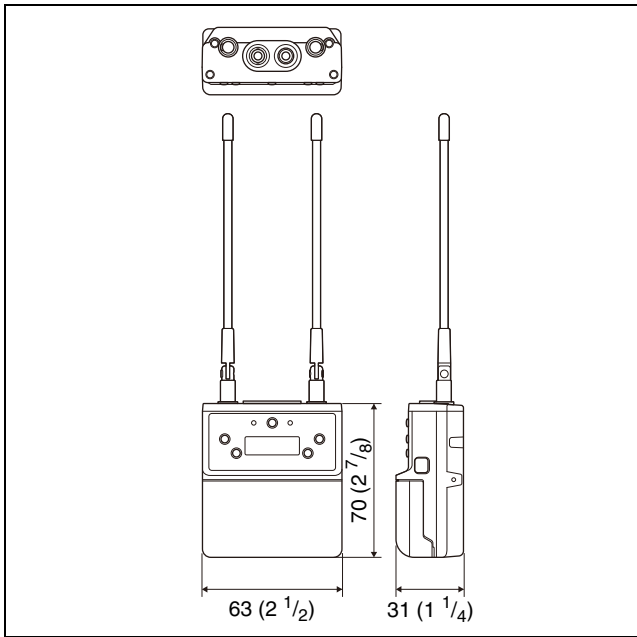
$63 \times 70 \times 31$ mm ($2\,^1/_2 \times 2\,^7/_8 \times 1\,^1/_4$ in.)
(width / height / depth)
(excluding antenna)
Mass   Approx. 131 g (4.6 oz)
                      (excluding batteries)

Portable diversity tuner (URX-P41D)

Audio output level
                      –60 dBV (3.5-mm diameter 3-pole
                      locking mini jack, analog output,
                      0 dB audio output level, OUTPUT
                      MODE set to NORMAL)
                      –20 dBFS (auxiliary connector, digital
                      output, 0 dB audio output level)
                      –50 dBV (auxiliary connector, analog
                      output, 0 dB audio output level)
Audio input level
                      –50 dBV (during –60 dBV output,
                      1 kHz input frequency, INPUT
                      LEVEL set to 0 dB)
Audio input connector
                      3.5-mm diameter 3-pole locking mini
                      jack
Reception method
                      Space diversity system (true diversity
                      system during one-channel
                      operation)
Indicators   POWER, RF 1/2
NFC function   Built-in
IR SYNC function
                      Built-in
Battery life   Approx. 4 hours 30 minutes (measured
                      with two LR6/AA size alkaline
                      batteries at 25 °C (77 °F), DISPLAY
                      MODE set to AUTO OFF)

Dimensions

$63 \times 70 \times 35$ mm ($2\,^1/_2 \times 2\,^7/_8 \times 1\,^7/_{16}$ in.)
(width/height/depth)
(excluding antenna)
Mass   Approx. 159 g (5.6 oz)
                      (excluding batteries)