

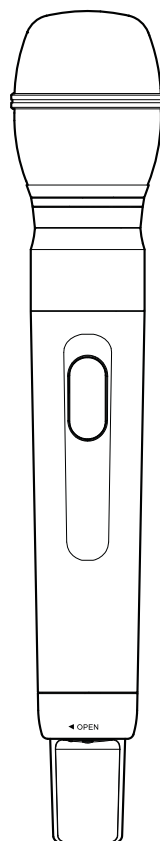
User Manual

UHF SYNTHESIZED WIRELESS TRANSMITTER

ATW-T6002 S

Thank you for purchasing the product.

Before using the product, take time to read this user manual thoroughly and use the product correctly. Keep this user manual handy together with the warranty so that it is always available for reference.



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Features

- Simultaneous 31-band transmission
- IR Link feature for easy transmitter configuration
- UHF band transmitter for wireless systems resistant to the effects of extraneous noise
- Great for stage use in live concerts, events, and the like
- Employs PLL synthesizer method
- Greater dynamic range and lower noise thanks to a double compandor (voice compression/expansion) system (PAT.)
- Organic EL display for enhanced visibility
- Specially designed high efficiency antenna

Important information

Warning:

To prevent fire or shock hazard, do not expose this apparatus to rain or moisture.

Caution:

Do not expose this apparatus to drips or splashes.

To avoid electric shock, do not open the cabinet.

Refer servicing to qualified personnel only.

Do not expose this apparatus to excessive heat such as sunshine, fire or the like.

Do not subject this apparatus to strong impact.

FCC Notice**Warning:**

Changes or modifications not expressly approved in writing by Audio-Technica may void the user's authority to operate this equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter used in other systems.

No userserviceable parts inside. The circuits inside the chassis, transmitters have been precisely adjusted for optimum performance and compliance with federal regulations. Do not attempt to open the chassis, transmitters. To do so will void the warranty, and may cause improper operation.

Batteries caution

Keep batteries out of the reach of children.

Observe correct polarity as marked.

Do not expose the battery to excessive heat such as sunshine, fire or the like.

Always consider the environment issues and follow local regulations when disposing of batteries.

Remove depleted battery immediately.

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

Do not use new batteries and old one at the same time.

Do not use different batteries type or model.

Do not use a leaking battery. If battery leakage occurs, avoid contact with skin.

If contact occurs, immediately wash thoroughly with soap and water.

If battery leakage comes into contact with your eyes, immediately flush with water and seek medical.

Notes on use

- Be sure to read the operation manual for the connected device before use.
- If you use the product close to an electronic device or communications device (such as mobile phone), noise may be caused in the product. If this happens, keep it away from such devices.
- When setting up the product, make sure there are no obstacles between the product and receiver that will block the signal.
- If you use the product near a TV or radio antenna, noise may be caused in the television or radio. If this happens, keep it away from the television or radio.
- To prevent the batteries from wearing out, turn off the receiver power after use or when the product is not in use.
- If the product is used for a long period of time, discoloration may occur due to ultraviolet rays (especially direct sunlight) and friction.
- Any alteration or modification of this product is prohibited by law. Also, disassembly of this precision product may result in electrical shock, equipment damage or fire. Never disassemble this product.

When using multiple wireless systems

- If using multiple units in the same location, keep 80 cm or more between individual transmitters and 3 m or more between transmitters and receivers.
- When using multiple units, turn on the transmitters one by one, making sure there is no noise.

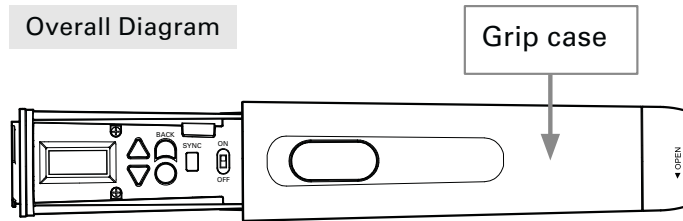
About microphone units

The product can be attached to the following microphone units. The microphone units must be purchased separately. They are not included with the product.

- ATW-C6100/HD (Dynamic microphone unit)
- ATW-C4100/HD (Dynamic microphone unit)
- ATW-C98/HD (Dynamic microphone unit)
- ATW-C5400/HD (Back electret condenser microphone unit)
- ATW-C3300/HD (Back electret condenser microphone unit)
- ATW-C4200/HD (Dynamic microphone unit with mute switch)

Part names and functions

Overall Diagram



Controls

Display

Shows the current status.

* If no buttons are pressed for a period of 20 seconds, the display will turn off.

IR receiving part

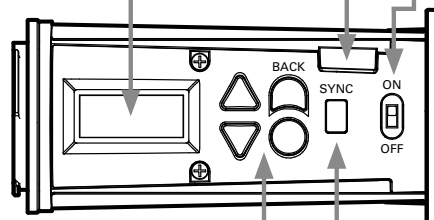
This is the receiving part for IR link.

Power switch

Turns the power on/off.

SYNC button

Use for IR link with a receiver.



Push switch

Used for selecting various settings.

UP (▶)

Press to change a selection.

DOWN (◀)

Press to change a selection.

SET (●)

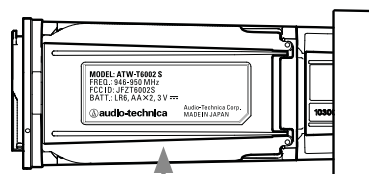
Press to confirm a selection.

* For details on how to operate, see "About settings".

BACK

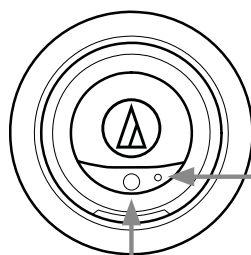
Returns to the previous operation.

Rear



Battery cover

Bottom



Power indicator

Lights in green when the power is on. Lights in red when battery power is low.

Recall button

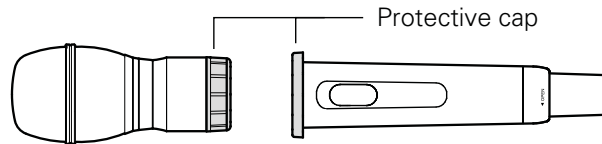
Turns the screen back on if the screen is off.

How to replace microphone

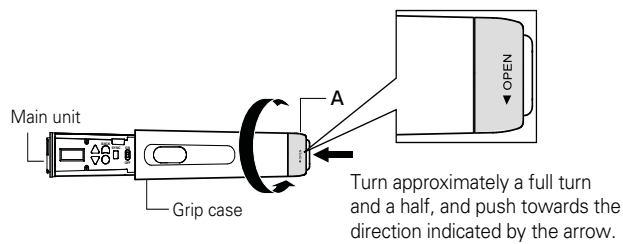
Microphone unit is sold separately.

■ How to install

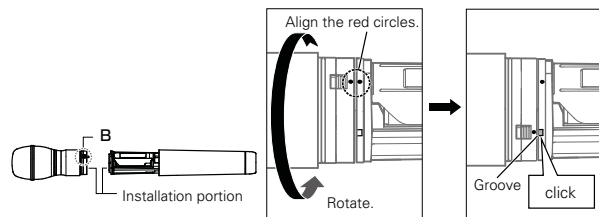
1. Remove the protective caps from the product and the microphone.



2. Turn the rotation lock (A) of this product's grip case approximately a full turn and a half towards ◀OPEN, and push the main unit free from the grip case.



3. Align the red circle on each installation portion. Rotate the microphone until its red circle aligns with the groove in the product and the microphone's slide lock (B) clicks in place.

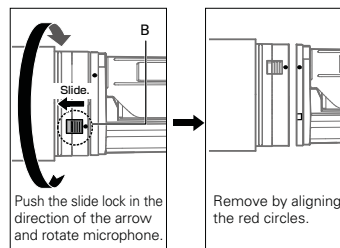


4. Insert installation portion with microphone into the grip case and turn the rotation lock (A) to tighten.

■ How to remove

1. Remove the microphone from the grip case by referring to "How to install" Step 2.

2. Unlock the slide lock (B) by pushing it away from the product, then rotate the microphone until its red circle aligns with the product's. Pull microphone free from the product.

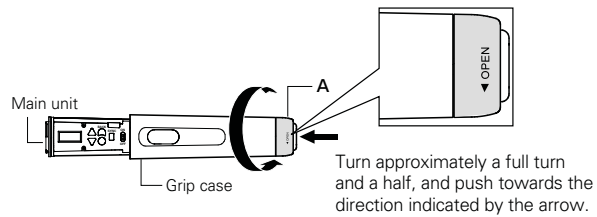


3. Put the protective caps on the installation portions of the microphone and product.

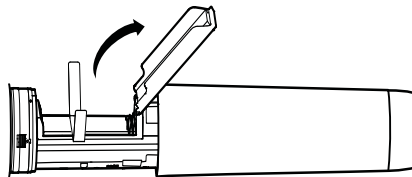
*For the product, insert the installation portion into the grip case and put the protective cap on the installation portion.

How to insert batteries

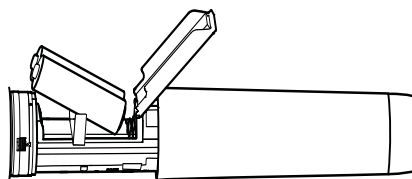
1. Turn the rotation lock (A) of this product's grip case approximately a full turn and a half towards ◀OPEN, and push the main unit free from the grip case.



2. Open the battery cover located on the back side.

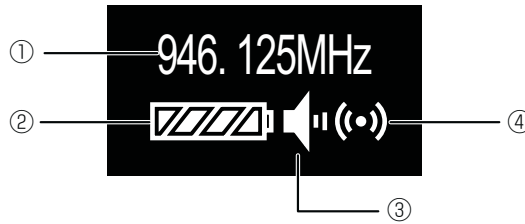


3. Insert the batteries correctly according to the plus (+) and minus (-) marks indicated on the product.



About display

The main screen is displayed when the power is switched on.



① Frequency/NAME

Press UP/DOWN to switch screens.

* Only frequency displays as the default setting.

② Battery power indicator

Shows how much battery power is remaining.



: 75 % or more battery power remaining.



: 50 to 75 % battery power remaining.



: 25 to 50 % battery power remaining.



: 25 % or less battery power remaining.



: Charge the batteries.

* Use as a general guide for determining how much battery power has been consumed.

* If there is no remaining battery power, change the batteries.
If rechargeable batteries are in use, charge them.

③ Microphone gain screen



: 0 to 6 dB



: 8 to 12 dB



: 14 to 20 dB



: Muted

- With no microphone unit attached
- With microphone unit's slide lock pushed up
- With ATW-C4200/HD attached and switched off

④ Transmission output screen



: RF Power High (50 mW)



: RF Power Mid (10 mW)



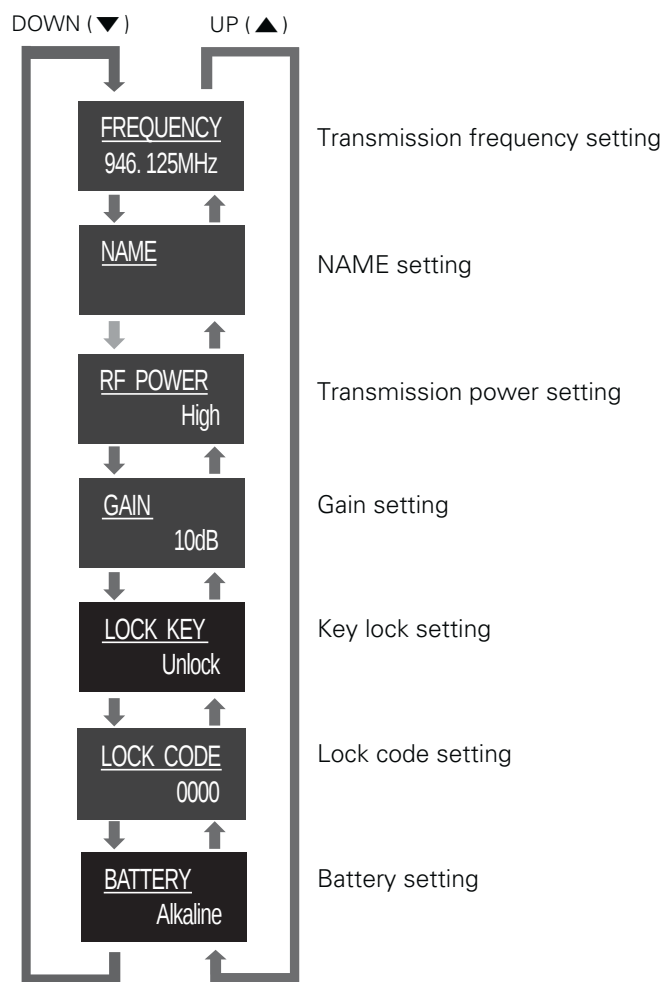
: RF Power Low (2 mW)

About settings

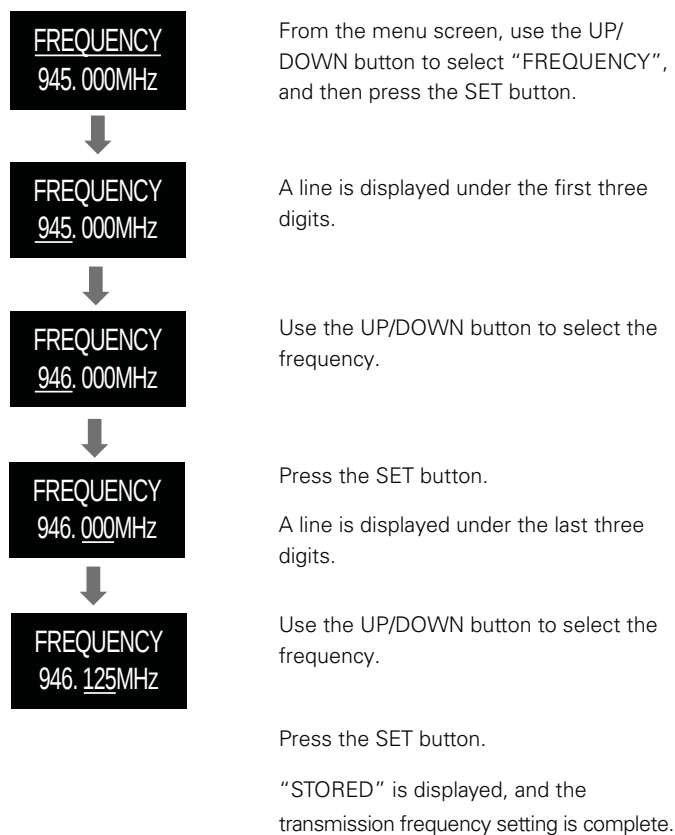
■ Menu screen

Press the SET (●) button on the push switch for menu screen mode. Moving the UP (▲) / DOWN (▼) button takes you to the screens for the details to set in the order shown below.

* If there is no button operation within 10 seconds, the display will return to the main screen.



■ Transmission frequency setting

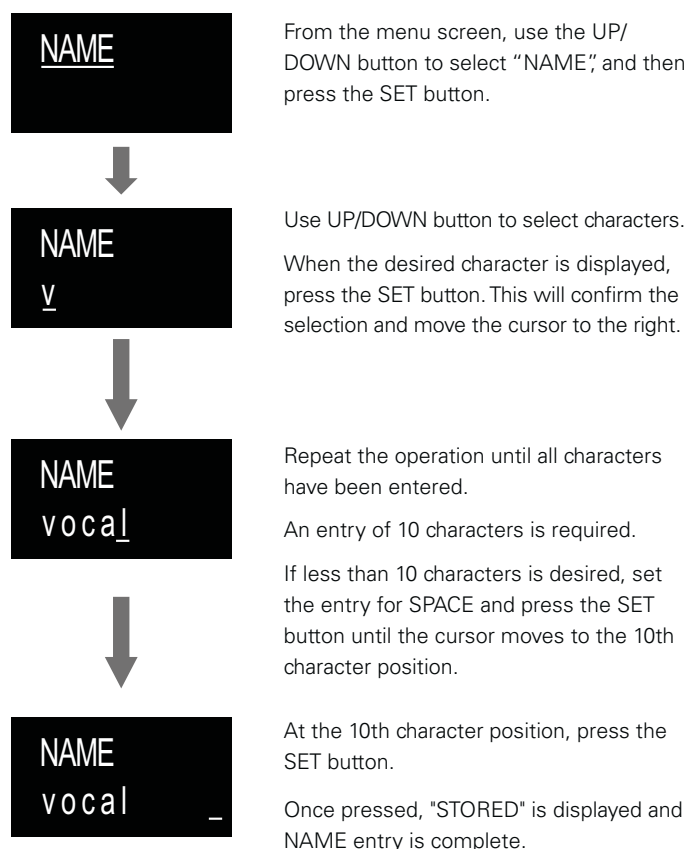


■ NAME setting

The maximum number of characters that can be entered is 10.

The following types of characters can be entered.

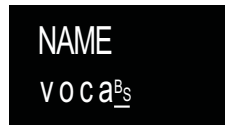
- Alphabetic (52 letters/upper and lower case)
- Period
- Numeric
- Plus
- Space
- Minus



■ To correct characters

To correct a character after it has been entered, select "BS" with the UP/DOWN button.

When the SET button is pressed, the last entered character is deleted and the cursor will move one position to the left.



NAME
voca^{BS}

■ Transmission power setting



RF POWER
High

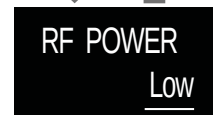
From the menu screen, use the UP/DOWN button to select "RF POWER," and then press the SET button.



RF POWER
High

Use the UP/DOWN button to select the transmission power.

Use UP/DOWN button to switch "High", "Mid" and "Low".



RF POWER
Low

Press the SET button.

"STORED" is displayed, and the transmission power setting is complete.

■ Gain setting



GAIN
10dB

*Initial setting is 10 dB.

From the menu screen, use the UP/DOWN button to select "GAIN," and then press the SET button.



GAIN
10dB

Press the UP button to increase gain in increments of 2 dB.

Press the DOWN button to decrease gain in increments of 2 dB.



GAIN
20dB

After selecting the gain, press the SET button.

"STORED" is displayed, and the gain setting is complete.

■ Key lock setting



LOCK KEY
Unlock

Display the key lock status.

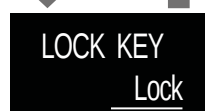
Unlock: Keys unlocked

Lock: Keys locked



LOCK KEY
Unlock

From the menu screen, use the UP/DOWN button to select "LOCK KEY," and then press the SET button.



LOCK KEY
Lock

After selecting the key lock setting, press the SET button.

"STORED" is displayed, and the key lock setting is complete.

■ Lock code setting

The lock code is a 4-digit code (from 0000 to 9999) for unlocking the keys.

If the key lock function is activated, the lock code will be required to enter the menu screen from the main screen.

LOCK CODE
0000



LOCK CODE
_000



LOCK CODE
9999_

From the menu screen, use the UP/DOWN button to select "LOCK CODE"; and then press the SET button.

Press the UP/DOWN button to select a number from 0 to 9.

Once the desired number is displayed, press the SET button to confirm the selection.

Repeat the operation until four digits have been entered. Once the fourth digit has been entered, press the SET button.

Once pressed, "STORED" will be displayed and Lock code setting is complete.

■ Battery setting

BATTERY
Alkaline



BATTERY
Alkaline



BATTERY
Ni-MH

Set the type of batteries used.

From the menu screen, use the UP/DOWN button to select "BATTERY"; and then press the SET button.

Alkaline Selecting for alkaline batteries

Ni-MH Selecting for nickel-metal hydride batteries

If the appropriate setting is not made for the battery to be used, the Battery Power Indicator will not display the correct information. Always set the type of battery according to the battery to be used.

After selecting the battery type, press the SET button.

"STORED" is displayed, and the battery setting is complete.

Using the key lock function

The key lock function prevents entry into the menu screen to avoid any unwanted changes to the product's settings.

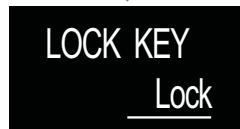
When the key lock function is set at "Lock", the entry of a lock code will be required in order to proceed to the menu screen.

■ Setting up the key lock function



1. Set up a lock code.

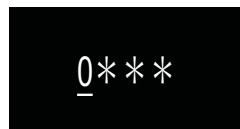
* Do not forget the 4-digit code that you set up.



2. Set the key lock function at "Lock".

* The key lock function will be activated once you press the BACK button and return to the main screen.

■ Cancelling the key lock function



1. If the key lock function is activated, pressing the SET button when the main screen is on will display the lock code entry screen.

* If there is no button operation within 10 seconds or if the BACK button is pressed, the display will return to the main screen.



2. Enter the 4-digit lock code which was set up earlier. Press the UP/DOWN button to select a desired number and press the SET button. Repeat the operation until all 4 numerals have been entered.

3. Once all four numerals have been entered, press the SET button. If the correct lock code has been entered, the menu screen will be displayed.

4. The key lock function can be disabled by going to the menu screen and setting the function at "Unlock".

About IR link

The product is equipped with an IR link function. It allows you to easily configure settings when setting with a receiver.

See the user manuals for optional receivers for instruction on how to use IR link.