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# E-IMAGE

## MT-800

### Advanced UHF Plug-on Transmitter User Manual



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Key Features

\*The plug on transmitter has a flat and wide frequency response, ultra-low THD and noise floor, fast transient response, strong anti-interference, and high S/N ratio characteristics. These superior characteristics are sufficient to resolve the trouble of tangling microphone cables and the deterioration of analog transmission characteristics. It is the best system to reproduce natural sound of any premium wired microphone.

\*With the balanced XLR mic input jack for installing with any condenser microphone, the plug on transmitter has 5 gain levels and built-in switchable 0/ 48 V, up to 10 mA current load phantom power for condenser microphones, and the phantom power can be switched off for dynamic microphones.

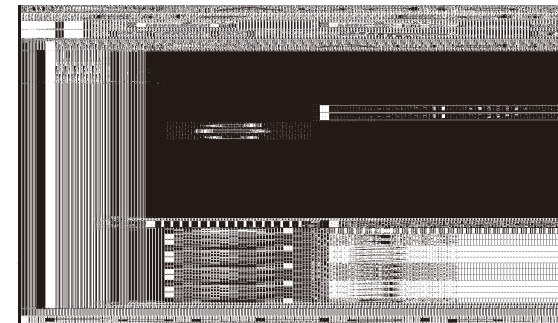
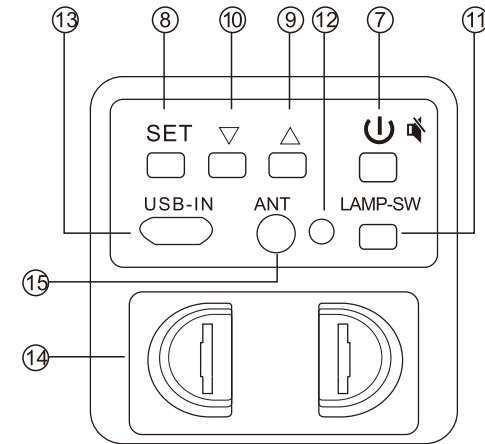
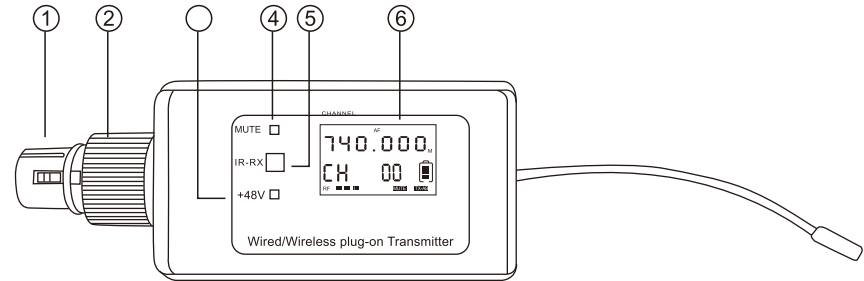
\*Match with USB external power outlet, the charging circuit of 2\*AA 1.2V Ni-MH recharging circuit, the charging state screen is clear.

\*It is compact, lightweight and ruggedly built. The streamlined aluminum housing is splash-proof with strict isolation of spurious and external noise interference. Built-in high efficiency transmitting antenna, green backlit LCD clearly displays operation parameters. Match with miniature portable receivers for a variety of action-based applications..

Main Specifications

- Housing : Compact magnesium alloy
- Frequency Range : UHF480-960MHz (According to national radio regulations)
- Receiver : MR-100 (signal receiver) / MR-300 (dual reliever)
- Adapter : XLR socket with fixed screw ring
- Transmitter power : 5mW/10mW switchable (country dependent)
- Harmonic radiation : ≤60dBc
- Antenna : external wired microphone or condenser microphone
- Oscillation Mode : PLL Synthesized., frequency stability ≤±0.005%(-10°C~60°C)
- LCD Display : LCD with backlight, Group, Channel, Frequency.,AF gain, volume, RF power, Mute mode, Stock of battery, Mute switch setting, phantom voltage, Lock status, prompt message and other functions
- Input sensitivity : -40dB. -30dB. -20dB. -10dB. 0dB. five setting, 0 dB = microphone sensitivity
- Phantom power voltage : 0V/ 12 V/ 48 V switchable, load current up to 10MA
- Mic Input : Balanced XLR
- Current Consumption : 230mA (Phantom power opens up70mA) /160mA(Phantom powerclose)
- Operating Time : > 10h (phantom power off: 0V) , >6h (phantom power on 12Vor48V)
- Battery : 2\* AA 15Vg High-performance alkaline batteries
- Dimensions (WxHxD) : 44x44x110mm
- Weight : 130g ( excluding battery )
- Accessory : USB Charge cable 1pcs.2\*AA(LR6)alkaline batteries
- Optional Components : 2\* AA 1.2V 1800mA Nickel hydride rechargeable battery
- Charging power supply : Input: AC90-230V, Output: DC 5V-1200mA USB plug

\*\*Plug on transmitter accessories name\*



Frequency response curve

## 1.Audio frequency input jack(XLR-PIN)

Connect to the line output of the microphone or mixer or other audio system.

## 2.External rotation screw

Lock or unlock XLR socket interconnect.

## 3.+48V phantom power indicator light

When the system set to power supply for the connected microphone, the indicator light is bright.

## 4.MUTE indicator light

When the power supply is turn on press the power button quickly(0.3S), that is set to

MUTE state, illumine MUTE indicator light, press the power button quickly again,

\*0.3S)that is unlock mute state, MUTE indicator light is closed, sound output normally.

## 5.ACT/IR function receiver

With the infrared of the receiver to the frequency information, the setting device frequency will be corresponding automatically.

## 6.LCD

Display functions, please read the instructions of every buttons.

## 7.Power / Mute switch button

Long press 1S, is the power switch operation. Short press 0.3S is mute switch operation.

## 8.SET button

## 9.Up button

## 10.Down button

## 11.LAMP-SW light

## 12.Touch press start button

## 13.Power indicator or lamp

## 14.USB port

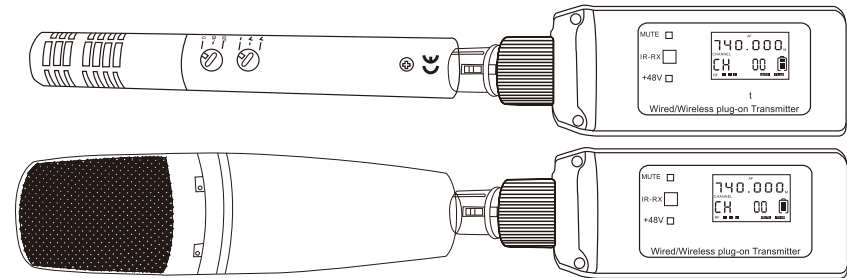
Connect to USB portable power,if the metal hydride battery is loaded, the battery can be charged\*

## 15.Battery box

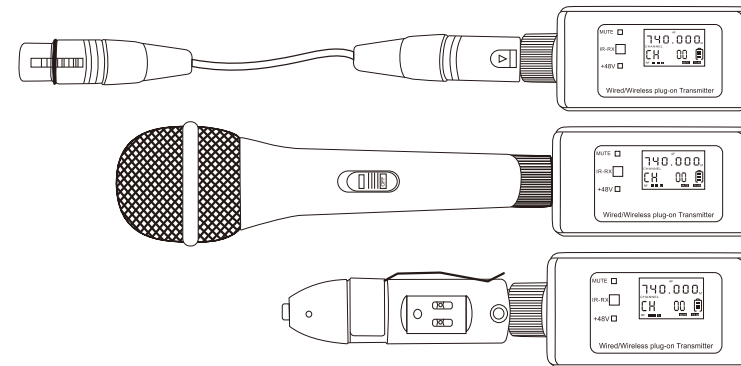
Built in 2\*AA type metal hydride rechargeable battery or high-performance alkaline

**\*\*Plug on transmitter use application**

1.Interview wired microphone, large Diaphragm condenser microphone and lots of instrument condensor pickup.This combination should open the 48V phantom power. Special instruction: match with the 48V phantom power.



\*.Wired dynamic microphone. or LINE output ( XLR ) of all kinds of sound(sound source ) This combination no need to open the 48V phantom power.( close the 48V output)



Product instruction:

\*48V phantom power used to connect the polarized condenser microphone with a 3.5mm plug to the microphone socket with 10-52V phantom power.(P12-P48),so the microphone can be powered by this adapter.

\*This phantom power adaptor has two versions:

\*OK-48V has the locked 3.5mm jack as evolution wireless; OK-48V has the locked 3-pin special socket.

\*This adaptor is a quick and flexible solution for connecting the same microphone to wired and wireless mode. The same microphone can connect to 48V use as the wired microphone.

\*48V can also be used as a tester for the XLR microphone line.

Technical Parameters:

Frequency response:20-20000Hz(-1dB)

Gain: 0/-10dB

Output voltage: 1.8V(P48), 0.6(P12) @ 0dB gain

Output impedance: 100 Ohm Minimum termination impedance 5kOhms(P12-O48)@ 0dB gain:2kOhms

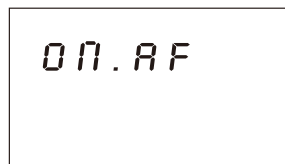
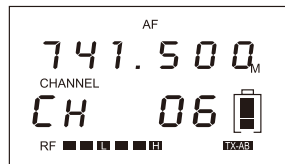
(P12-P48)@-12dB gain

Phantom power: P12-P48, 10-52V, 2.6-2.8mA

Overall dimension: Void 19-22mm, L 90 mm

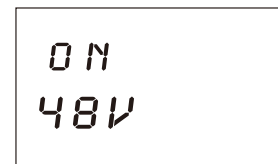
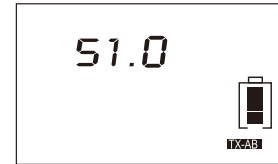
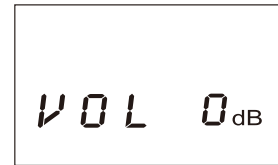
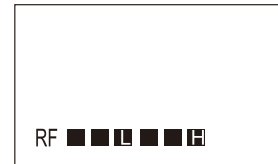
Working temperature: -20.....+60°C

\*\* Professional plug on transmitter operation instruction



1. Power switch / Mute switch

Long press power switch button, turn on or off respectively, short press power switch button, MUTE or display light indicator MUTE "OFF AF" respectively, or restore the extinguished indicator light MUTE and display open the audio "on. AF"



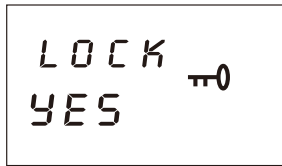
2. Press the SET key to enter the channel selection. Short press once "SET" key, CHANNEL digital flicker, and then press UP operation key, has 200 channels for your selection.

3. Power output selection  
Short press twice "SET" key, RF power flicker, then press upward button: Low power RF ; high power RF ; High power transmission distance, but power consumption.

4. Volume level input audio frequency sensitivity size selection  
Short press three times "SET" key, VOL volume flicker, and then press UP operation key, adjustable range is -40dB-30dB-20dB -10dB~0dB five setting, 0dB is the largest volume.

5. Battery voltage category selection  
Short press "SET" four times, enter into the battery voltage category choice, and then press up button, 1.5V is alkaline battery, 1.2V is NI-MH rechargeable battery.

6. XLR socket output phantom power short press "SET" five times, enter into choice: close 48V power, as pictured "OFF 48V", the indicator light of "48V" is closed at the same time. Turn on 48V phantom power output, as pictured "ON 48V", the "48V" indicator light is lightened at the same time.



7.Lock selction

Short press six times"SET" button, enter into lock interface, and then press UP button, LCD display"LOCK YES"is locked,display"LOCK NO"is unlocked, the settings are unable to function before unlocking.

8.AF audio signal level indicator

The audio signal intensity of the transmitter.When the input audio reach to the peak(or distortion values) The screen has a bright red backdisplay"PEAK WOL--SEdB"words.

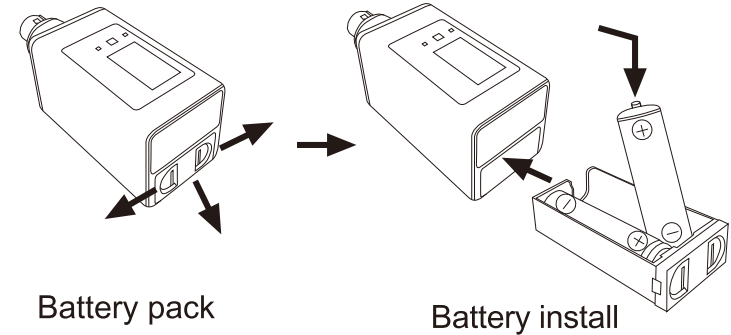
9.Battery Level Indicator

Transmitter battery voltage is three, low voltage is blank. When the battery low voltage symbol "☐" flicker.Turn the screen back to red and turn off automatically 20 seconds later.

10.NI-MH charging battery instructions

Standby model,insert USB cable, the battery is flicker during charging, the flicker stops and displays "FULL", that means the battery is full of electricity .

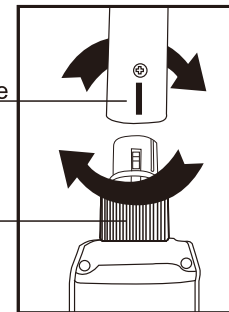
**\*\*Battery box installing**



**\*\*Install the attachment to the plug-on transmitter.**

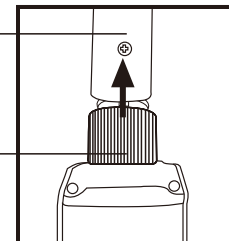
\*Microphone or cable interface.

\*Locked or unlocked external nut



\*Microphone or cable interface

\*Locked or unlocked



**Installing microphone or cable**

Chronological rotation \*The external nut is pushed to the bottom, and then put \* Microphone or cable port \* XLR port\* push in plug on transmitter audio frequency input port,until it clicks into place,then reverse rotation \*Push the external nut to close to.\*The microphone or cable interface, that is locked.

**Disconnect the microphone or cable**

First rotate clockwise, then push the outer nut to the bottom, then slowly pull out the microphone or cable.

