

Operating Instructions

HXiR Hand Held Radio Microphone Transmitter

The HXiR is the latest innovative microprocessor controlled hand held transmitter from Audio Limited. The transmitter utilises inter-changeable, high quality condenser capsules from the Schoeps TM Colette range, Thereby allowing a variety of applications where broadcast quality audio is required.

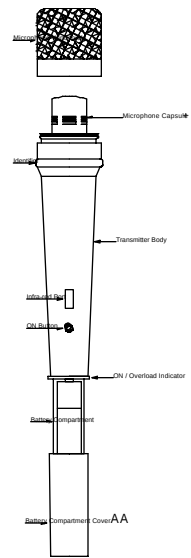
The transmitter incorporates a microphone suspension specially designed by Rycote TM, for Audio Limited, to minimize the handling noise.

The HxiR can have up to 32 switchable frequencies over a 24MHz bandwidth.

The transmitter antenna has been integrated into the design of the battery compartment to enhance the elegant appearance. The TX is powered from a single “AA” type 1.5 V battery, allowing the transmitter to be used for up to two and a half hours continuously from a good quality alkaline battery. A lithium “AA” type battery is available allowing seven hours continuous use.

As with all previous products from Audio Limited, the transmitter has been designed for ease of use, with all user settable functions being controlled by the unique SwitchiR.

Microphone Windshield



Microphone Capsule

Identification Ring

Transmitter Body

Infra red Port

On Button

On/Overload Indicator

Battery Compartment

Battery Cover

1) Battery Access

The HXiR uses a single AA 1.5V (LR6, MN1500) type alkaline battery which is universally available.

Grip the battery compartment cover and slide it away from the body of the HXiR to expose the battery compartment. Fit the AA battery with the Positive terminal uppermost and the negative terminal at the sprung end. Close the battery cover.
Do not twist the cover.

2) Switching the transmitter ON

Press and hold the grey “ON” button found below the infra red port, for one second. A red LED will illuminate the translucent ring above the battery compartment.

There is no “OFF” switch on the transmitter preventing the transmitter from being turned off accidentally. The transmitter can only be turned off via the SwitchiR, or by disconnecting the battery.

To turn the transmitter off via the SwitchiR [Subsequent or continuous pressing of the “ON” switch will not have any effect on the transmitter function]:

Press **MENU** followed by **down arrow**. Align the front of the SwitchiR with the iR port on the transmitter and press **OK**

OFF TX

3) Selecting the operating frequency

The SwitchiR enables the user to check, and change the frequency setting of the transmitter being addressed.

To check frequency

Step 1. Press **MENU** - display shows

FREQUENCY Fr MHZ

Align front of SwitchiR with infra red port of TX

Step 2. Press **OK** - displays the set frequency of TX / RX
e.g. 857.950 MHz

(Pressing the **OK** button downloads the
32 frequencies from the unit into SwitchiR)

To Change Frequency

i) Follow **Steps 1 & 2.**

ii) Press **OK** - display will alternatively flash between frequency and channel number
e.g. ""857.95"" ""21""
 MHZ CHANNEL

iii) Press **up/** to scroll through any of the 32 frequencies
down arrows pre-programmed into the receiver or transmitter until desired frequency is displayed

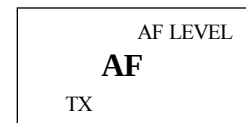
iv) **Point** the Switch*i*R - directly at the infra red port of the transmitter.

v) Press **OK** - to change the frequency. **Display will show the new frequency** of the transmitter.

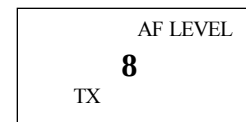
4) Setting the Gain

To **Check** gain setting:

i) Press **MENU** followed - display will indicate:
by the **up arrow once**
Align front of Switch*i*R with infra red port of TX



ii) Press **OK** - to view gain setting on transmitter, e.g.:



To **Change** gain setting:

i) **Follow** the above **steps 1 & 2**

ii) Press **OK**

- the display will flash the ""AF LEVEL"" icon

iii) Press **up / down arrows**

- to select any one of ten gain settings
once the desired gain setting is selected,

Align front of Switch*i*R with infra red port of TX

iv) Press **OK**

- to set the new gain setting.

Note: Steps between gain settings are approximately 3 to 4 dB.

The “ON” indicator has a dual function.

The translucent ring above the battery compartment is normally illuminated while the transmitter is switched on. This red light will turn off indicating an overload if the microphone experiences a loud signal.

The gain control should be adjusted to suit the application. Set the gain position such that the overload indicator remains illuminated during normal speech.

The HxiR transmitter uses the same ultra low distortion, fast attack, fast decay overload compressor as found in the TX2020 pocket transmitter. In normal use, the gain should be set so that this compressor does not operate. Should an overload occur then the red LED will flash momentarily and the gain switch should be set lower. In the event that overloads occur, however, the only result will be compression rather than distortion. This means that if an interview is disturbed by unexpected aircraft or vehicles passing for example, an otherwise useless recording is rendered useable. The fast recovery of the compressor means that one does not have the problems of feedback associated with automatic gain controls in hand held radio microphone transmitters which are constantly varying their own gain. With the wide dynamic range of the system, however, it is always possible to set the gain control so that the compressor never operates. It is present only for the unexpected.

5) Setting the Low Frequency Cut Filter

The LF cut filter gives approximately 10dB cut at 50Hz to reduce handling and wind noise. To **Check** status of low frequency filter:

i) Press **MENU**

ii) Press **Up arrow twice** - display will indicate

LF Cut TX

Align front of SwitchiR with infra red port of TX

iv) Press **OK** - to view the present status of the LF cut filter e.g.:

On

To **Change** the **filter setting**:

i) Follow the **above steps**

ii) Press **OK** - the display will flash "On"

iii) Press **Up/down arrows** - to toggle between the On / Off settings.
Once desired setting is reached.

Align front of SwitchiR with infra red port of TX

iv) Press **OK** - to set the new LF Cut status.

6) Battery Status

The battery status of the transmitter is checked via the SwitchiR

Battery Level Transmitter

To **Check** status of **battery** in transmitter:

i) Press **MENU**

ii) Press **Up arrow three times** - display will indicate

BAtt TX RX

Align front of SwitchiR with infra red port of TX

iii) Press **OK** - display will show the battery status volts

The transmitter battery status is also conveyed to the receiver. When checking The battery status via the receiver, the SwitchiR display will alternate between the Receiver voltage and the received transmitter battery status.

The display will indicate:-

H TX

H – High / Good battery

L TX

L – Low battery

F TX

F – Fail / Replace battery

Battery life - 2.5 hours typical with a good alkaline battery / - 7 hours lithium battery.

7) **Infra red Disable**

For live performances or situations requiring a higher degree of protection from an accidental change of settings, the infra red port on the transmitter can be disabled. This action will prevent all communication to the transmitter

The only way to re-activate the infra red port is by disconnection of the battery, thereby performing a hard reset.

To disable the infra red port:

i) Press **MENU**

ii) Press **Down arrow twice** display will indicate

‘diSABLE “ Ir ? ‘

8) Antenna

The transmitter antenna is integrated into the battery compartment and therefore no external antenna is required.

9) Microphone Capsule

The HXiR transmitter utilises the high quality inter-changeable condenser capsules from the Schoeps™ Colette range. The HxiR is compatible with the full range of capsules and accessories in the range.

10) Fitting capsule

Unscrew the metal windscreen (1) from the top of the transmitter. Fit the appropriate capsule taking care not to over tighten the capsule (2). Replace the windscreen.

Setting up the HXiR

- Fit the battery
- Press “on” switch till indicator illuminates
- Check transmitter frequency corresponds to that of the receiver.
- Set gain
- Set LF Cut if required
- Check that the receiver’s ‘No signal’ indicator is not illuminated.

Holding the HXiR

The HXiR should be held above the illuminated ‘on’ indicator ring (6). This will Enable the maximum power radiation from the integrated antenna in the transmitter compartment (7). Holding of the HXiR over the battery compartment (7) will impair the range of the transmitter, and should be avoided.

Note: The HXiR transmitter will retain the last settings of frequency, gain, LF status even if the battery is removed from the transmitter. The information is stored in the non-volatile Memory of the HXiR

The capsule mounting has been specially designed by Rycote™, to minimize the handling noise.

The transmitter is supplied with six coloured identifying rings to aid recognition in multi-channel use.

The ring also prevents the transmitter from rolling when placed on a table or other such surface, due to the specially designed flat areas on the ring.

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