



User guide for TX1010 digital transmitter



Controls, display and connections

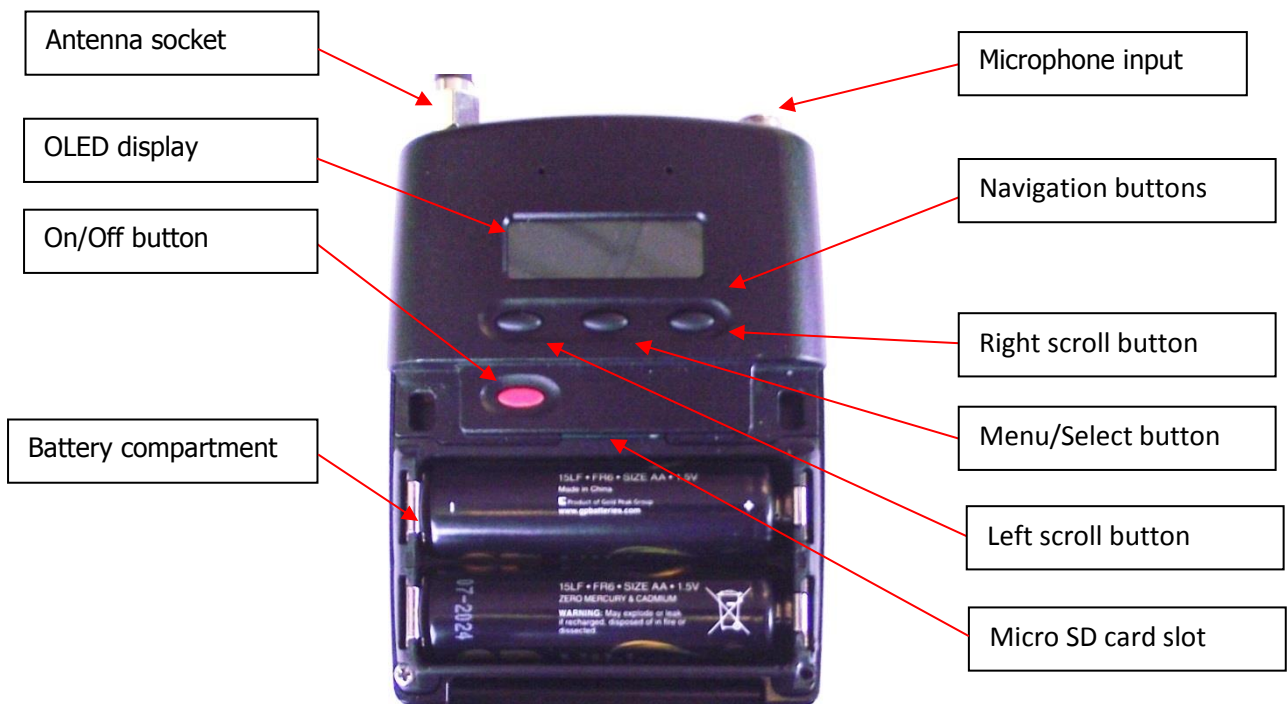


Fig.1 TX1010 transmitter with open battery compartment

Antenna

The TX1010 transmitter is supplied with a detachable whip antenna. Attach this to the antenna socket.

Installing and removing batteries

To open battery compartment, press the two catches on both sides simultaneously and open lid (see Fig.1).

Insert 2 x AA batteries

Momentarily press the red On/Off button to turn transmitter on. The blue LED will light.

To close battery compartment, gently push down the flap until you hear a click. The transmitter is now ready to use.

All of the parameters of the TX1010 transmitter are set up using Audio Ltd's easy access menu system as listed below.

Frequency	After accessing the main menu, use the right button to scroll to the Frequency option. Once the frequency option is highlighted, press the menu/enter button to enter the frequency menu to view the TV, sub-channel, or Tune selections.
Frequency selection	Use the left button to highlight the TV Channel to make the select the TV channel and then select the sub channel until the desired sub-channel is selected. Further fine tuning of the frequency can be made in 25kHz steps by highlighting the Tune section of Frequency menu. Once the desired channel or frequency has been set escape to the top level of the transmitter main menu.
AF Gain	To select the microphone gain setting in the menu.
Microphone gain setting	Use the menu button to highlight the desired AF Gain option. To confirm this choice press menu button and the transmitter will save the setting and return to the main menu. Typical setting for lavalier microphone is gain position 3.
Lock	The menu can be locked to prevent accidental access to the various transmitter settings.
Set Lock	Select Lock to lock out the access to the settings and to prevent accidental access to the menu.
Sleep	The transmitter can be put into 'Sleep', or standby mode to allow the transmitter to conserve battery life when not being used for a take. The transmitter can then be 'woken up' by using the sleep menu or via the TX1010 app.
Sleep setting	Put into sleep mode by selecting sleep.
Options menu	The Options menu provides access to the LF Cut, RF Power, Screensaver, Encryption and System menus.

LF Cut	Accessing the LF Cut menu allows the user to select any one of five LF cut settings to maximize the rejection of undesirable low frequency noise. Any one of five LF Cut settings, ranging from 50Hz to 200Hz can be selected.
RF Power	Three power settings can be selected to suit the environmental conditions. The three power settings are 5mW, 20mW and 50mW.
Display menu	To change display parameters enter the display menu. Entering display menu allows the user to change the brightness and the screensaver timer.
Brightness	The brightness of the OLED screen has 5 adjustable settings.
Screensaver	The screensaver can be switched off completely or it can be set to time out after 5, 30 or 120 seconds. This reduces power consumption.
Encryption	The 1010 system allows the encryption of the transmitted signal to ensure the complete privacy of the particular transmitter receiver pairing. The encryption menu allows the user to generate a secure 4 digit key.
Key generator	Entering the encryption menu allows the user to generate a secure 4 digit key. This 4 digit number is then entered manually in the DX1010 receiver.
System menu	Select System to enter the system menu.
Info	Enter the Info screen to read the parameters for the transmitter. Parameters include the serial number, firmware issue number and the frequency banding of the transmitter.

<p>Region</p>	<p>Enter the Region menu to select TV regions to ensure the correct selection for operation in your current region. In the region menu there are 3 regions:</p> <p>USA – 6MHz TV channels EU – 8MHz TV channels AU/NZ – 7 MHz TV channels</p>
<p>Update firmware</p>	<p>Selecting the Update allows the user to update the firmware of the transmitter using the micro SD card. Copy the firmware update file onto a suitable micro SD card and insert it into the micro SD card slot in the battery compartment of the transmitter. To prevent accidental updating of the transmitter the user will be requested to confirm whether to update the firmware.</p>
<p>Blue LED</p>	<p>Selecting the Blue LED menu allows the user to turn the blue LED on or off if required. Confirm whether the blue LED is required to be switched off. This selection is stored in memory so that the state is preserved even if the batteries are changed.</p>
<p>Bluetooth Menu</p>	<p>The Bluetooth menu can be accessed, allowing the user to turn the Bluetooth on/off. It also allows the user to ‘forget the pairing’ of the TX1010 with the iOS TxApp.</p>
<p>Restore</p>	<p>The restore function allows the user to reset the TX1010 to the factory default settings. Note: After a ‘Restore’ to factory settings the region will reset to E-Europe so please select the current region in your locality before proceeding further.</p>
<p>Battery type</p>	<p>The end user can set the battery type being used to ensure the accuracy of the battery level indicator on the TX1010 and also on the TX battery indicator in the receiver. The battery discharge curve algorithms for 3 different battery types are currently selectable. NiMH, Lithium and Alkaline.</p>

Recommended Mounting

The TX1010 transmitter is supplied with a neoprene pouch for attaching the transmitter to a belt or waist line of trouser or skirt. This accessory ensures that the transmitter meets RF Exposure guidelines. Other body-worn accessories used with this device must meet the following requirements in order to comply with RF Exposure guidelines:

- Made of non-metallic material
- Transmitter orientated in vertical plane at waist height
- Maintains a minimum separation distance of approximately 7mm from body

Batteries

Upon finishing with any used batteries please dispose of them as special waste. In order to protect the environment, only dispose of exhausted batteries.

TX1010 Frequency ranges

The TX1010 transmitter can tune over a switching bandwidth of up to 100MHz. The frequency ranges are listed below:

470.2-547.8MHz

518.2-607.4MHz

594.2-693.8MHz [Europe only]

Please note that frequency range 608 – 614MHz is forbidden for use in US.

FCC Conformity

This device with its antenna complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The device must not be co-located or operated in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules: Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Caution:

Changes or modifications not expressly approved by Audio Ltd could void the user's authority to operate the equipment.

Industry Canada Conformity

This radio transmitter (20513-TX1010) has been approved by Industry Canada to operate with the supplied monopole whip antenna only. Other antenna types are strictly prohibited for use with this device.

This device operates on a no-protection no-interference basis. Should the user seek to obtain protection from other radio services operating in the same TV bands, a radio licence is required. Please consult Industry Canada's document CPC-2-1-28, 'Optional Licencing for Low-Power Radio Apparatus in the TV Bands', for details.

This device complies with Industry Canada's licence exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and*
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.*

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Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence.

L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage; et*
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*