User guide for the En2 PTX plug-on transmitter

Installing and removing batteries

To open the battery compartment, slide the battery compartment catch away from the edge. This will unlock it and the batteries can be placed inside with the positive end outermost (see Fig.1. below).

To close the battery compartment, gently push down the flap until you hear a clicking sound. The transmitter is now ready to use.
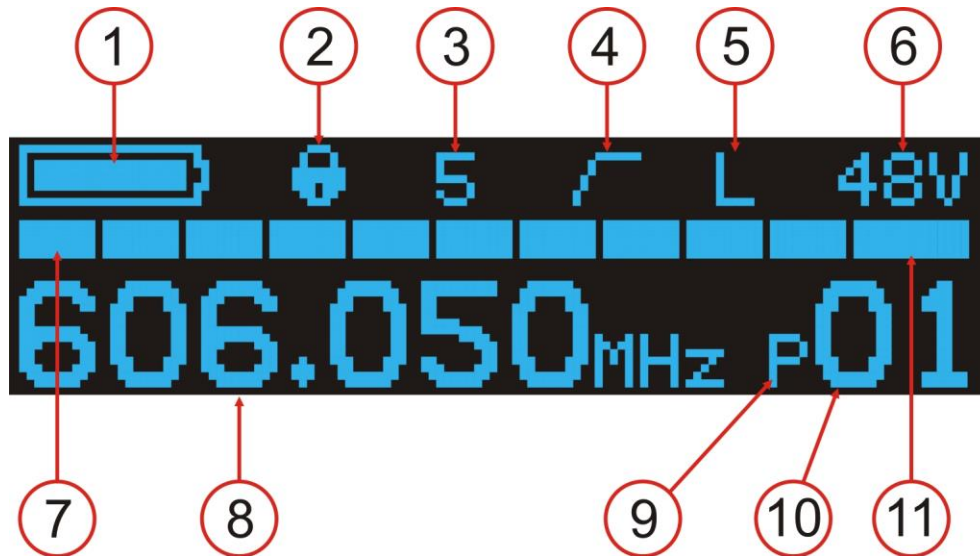
Fig.1

OLED display

On/Off Button

Navigation switch

Locking ring

Battery compartment catch

606.050

Fig.2.

Switching the transmitter on and off

To turn the transmitter on, press the On/Off button for one second and the OLED display and blue 'On' led will turn on. To turn the transmitter off, press and hold the On/Off button for three seconds.

Default screen

Key

1   Battery level icon

2   Menus Locked icon

3   Current gain setting

4   LF Cut active icon

5   RF Output Power icon (Only displayed when 'Low' setting selected)

6   48V phantom/Dynamic setting

7   AF level indicator

8   Frequency

9   Frequency selection mode (P = PRESET, U = USER, TUNE = TUNE mode).

10   Selected channel number (PRESET or USER modes only).

11   Overload indicator.

Enter Main Menu

To access the various transmitter parameters press and hold the navigation switch (see Fig.2) for 2 seconds to enter the menu. The main menu will be displayed.

Accessing the Frequency option

After accessing the main menu, use the navigation switch to scroll to the Frequency option. Once the frequency option is highlighted, press down on the navigation switch to enter the frequency menu to view the range of frequencies.

A range of frequencies will be displayed and the desired one can be highlighted using the scroll. To confirm the desired frequency press down on the navigation switch to make the selection. The transmitter will then return to the main menu.

AF Gain option

After accessing the main menu, use the navigation switch to scroll to the AF gain option. Once the AF gain option is highlighted, press the navigation switch to select one of 10 AF gain settings.

Use the navigation switch to highlight the desired AF Gain option. To confirm this choice press navigation switch and the transmitter will save the setting and return to the main menu.

LF Cut option
After accessing the main menu, use the navigation switch to scroll to the LF Cut option.

Select the required filter setting.

Options
After accessing the main menu, use the navigation switch to scroll to the Options menu. When the Options icon is highlighted, press the navigation switch.
On doing so, the Options menu will be displayed as shown below:

Frequency Mode

In selecting the frequency mode the user can select one of three frequency modes, Factory set **Preset**, **User**, or manual **Tune**.

⊡Preset ▫User ▫Tune

FreqMode

Preset

31 32 🔲 02 03

606.050MHz P**01**

In **Tune** mode the user can select any frequency within the switching bandwidth of the frequency table in 25kHz steps and then save them to the **User** memory. The User memory is initially programmed with a copy of the **Preset** frequencies until the user selects and saves a frequency in **Tune** mode.

Tune

« ‹ ⏎ › »

606.000MHz TUNE

⏎ 🎛

Exit

31 32 🔲 02 03

606.000MHz TUNE

Frequency tables

Units which are programmed with multiple tables will show frequency table selection on the menu. Entering the frequency table selection screen will show the frequency table number. The user can select any one of up to 10 tables.

Sub-options menu

RF Power

In selecting the RF Power from the Sub-options menu the user can select High or Low power settings. In selecting the low power setting the user will extend the battery life of the transmitter.

Blue LED on/off

Selecting this option allows the user to turn the blue 'On' indicator LED, on or off. The default setting is on.

AF Mute setting

Selecting this option allows the user to configure the On/Off button as a momentary mute button. This might prove useful in an interview situation where the presenter wants to keep the transmitter on, but wishes to turn the audio off momentarily.

Note: The On/Off function remains active whilst the button is used as a mute function, but if the user wants to the turn the transmitter off the button just needs to be held down for a longer period.

Display settings option

Brightness

The brightness menu selection allows the user to set the brightness of the OLED display. There are 5 selectable levels available.

Screensaver

The OLED display can be placed into screen saver mode to extend battery life and also reduce light emission from the transmitter.
There are 4 settings available :–

X - display on all the time
5 - screen enters screen saver after 5 seconds
20- screen enters screen saver after 20 seconds
60 - screen enters screen saver after 60 seconds

Left/Right hand setting

The PTX can be setup to allow right-handed or left-handed operation by the user.

Restore

If for any reason, the user wants to restore the transmitter to the original factory supplied settings then the user can use the restore function. Please note this will overwrite any user memory settings and gain settings.
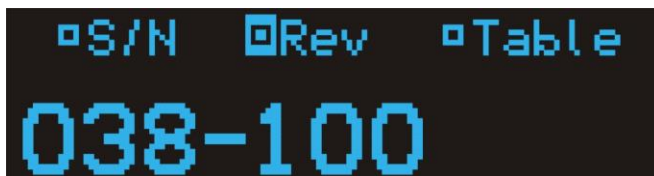

Information option

From the top level menu the **Info** provides the serial number, Firmware revision and frequency table information.

After accessing the main menu, use the navigation switch to scroll to the Info option. Once the Information option is highlighted, press the navigation switch to view the options.

To view the information for any of these, there is no need to press down the middle button. Simply scrolling from left to right will enable you to view the data for any of the three headings. Pressing down on the navigation switch will instantly take the

transmitter back to the Main Menu.

Lock option
After accessing the main menu, use the navigation switch to scroll to the Lock option. Once the Lock option is highlighted, press the middle part of the navigation switch to view the options:

To lock the transmitter, scroll using the navigation switch to the Yes option. The transmitter will then return to the main menu, with an unlock symbol to replace the lock symbol.

To unlock the transmitter, scroll to the unlock symbol and use the middle part of the navigation switch to select the Yes option. The transmitter will then return to the main menu.

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.

Recommendation to minimize RF exposure

In order to avoid the possibility of exceeding the FCC RF exposure limits, it is recommended that the transmitter or attached microphone is kept at a minimum distance of 13mm (0.5 inch) away from the head or body during normal operation.

PTX Frequency ranges supplied for use in USA

The PTX transmitter can tune over a switching bandwidth of up to 80MHz. The frequency ranges are listed below:

470.1-523.9MHz
512.1-571.9MHz
542.1-607.9MHz
614.1-693.9MHz
618.1-697.9MHz

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

Variants

PTX2040 Plug On transmitter

Warning!

Any modifications or changes made to this device, unless explicitly approved by Audio Ltd., may invalidate the authorisation of this device. Operation of an unauthorised device is prohibited under Section 302 of the Communications act of 1934, as amended, and Subpart 1 of Part 2 of Chapter 47 of the Code of Federal Regulations".

Technical Specifications [US Model]

Frequency Range (MHz)	470-608, 614-698
Switching Bandwidth	Up to 80MHz in 25kHz steps
Number of frequency tables	Up to 10
Number of Factory Pre-set Frequencies	32 in each table
Number of User Selectable Frequencies	32 in each table (selectable in 25kHz steps)
Modulation Mode	Wideband FM
Emission designator	F3E
Frequency Tolerance	35ppm
Frequency Stability	±0.002%
Audio Frequency Response	50 – 18kHz
Signal-to-Noise Ratio	>100dB (±45kHz deviation)
Total Harmonic Distortion	<0.3% typ.
Output Power	40mW or 20mW nominal, selectable
Audio Gain control	0-40B in 8 steps plus 2 steps for line input
LF Cut	3 settings; flat, 80Hz, 120Hz
Input connector	Neutrik™ XLR-3 pin screw-locking
Display	OLED blue, 128x32 pixels
Control	3 position navigation switch
Battery Type	2 x 1.5V Alkaline LR6 AA size
Battery Life	Minimum 5 hours with 48V 9 hours with dynamic microphone
+48V Phantom Power	Yes
Operating Temperature Range	-20ºC to +55ºC
Weight	142g (without batteries)
Dimensions	118mm (H) x 38mm (W) x 38mm (D) (tri-lobular shape)