

WL64-4

iPad and manual

(rev 1.03 29.07.24)



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Manufacturer's CE Declaration of Conformity

Manufacturer Identification

Legal Name: Nixer Ltd
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 Tel.: +44 (0) 1582 343111

Representative: Nick Fletcher
 Function: CEO/CTO

Product: WL64-4 - Audio over Ethernet Monitoring Tool
 Brand: Nixer
 Model: WL64-4
 CE Affixing Date: 04.08.2023

Declaration:

Provided that it is installed, maintained and used in the application for which it is made, with respect of the professional practices, relevant installation codes and manufacture's This declaration is issued under the sole responsibility of the manufacturer
 The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

2014/35/EU	The Low Voltage Directive
2014/30/EU	The Electromagnetic Compatibility Directive
2011/65/EU	The Restriction of Hazardous Substances Directive

References to the relevant harmonised standards used or references to the other technical specifications in relation to which conformity is declared.

EMC	Emission	EN 61000-6-3	2020-07-30
		EN 55032 :2015+A1:2020	2020-12-09
	Immunity	EN 61000-6-1:2019	2019-09-25
		EN 61000-4-25:2003/A2:2020	2020-11-25
		EN 61000-4-3:2020	2020-11-06
Safety	EN 61000-4-21:2012	2012-01-27	
	EN 61000-4-5:2015:A1:2018	2018-03-28	
	EN 62368-1:2024	2024-05	

Signature of manufacturer's representative:


 Nick Fletcher

Important Safety Information

CAUTION: These servicing instructions are for use by qualified personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the User Manual unless you are qualified to do so. Refer all servicing to qualified service personnel.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on this apparatus.
- Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install or use near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
- Only use attachments/accessories specified by the manufacturer.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To completely disconnect mains power from this apparatus, the power supply cord must be unplugged.

For US and CANADA only:

Do not defeat the safety purpose of the grounding-type plug. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of an uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

General Precautions

- Do not place heavy objects on the WL64-4, expose it to sharp objects or handle it in any way that may cause damage, e.g., rough handling and/or excessive vibration.
- Do not subject the equipment to dirt, dust, heat or vibration during operation or storage. Never expose the console to rain or moisture in any form. Should the unit become wet, turn it off and disconnect it from the power source without further delay. The equipment should be given sufficient time to dry out before recommencing operation.
- When cleaning the WL64-4, never use chemicals, abrasive substances or solvents.
- The front panel should be cleaned using a soft brush and a dry lint-free cloth. For persistent marks, use a soft cloth and isopropyl alcohol.
- Keep these instructions for future reference. Follow all warnings in this manual and those printed on the unit.
- The WL64-4 must be connected following the guidance in this manual. Never connect power amplifier outputs directly to the WL64-4. Connectors and plugs must never be used for any other purpose than that for which they are intended.
- The equipment must be powered from an appropriate source which can be via either of the mains inputs. Use both inputs for redundancy purposes.
- The WL64-4 must not be operated inside a case or enclosed as the housing acts as a heatsink for the components inside.
- Refer servicing to qualified technical personnel only.

Introduction

Thank you for purchasing your new Nixer WL64-4 audio network monitor for use with multiple iPads. This unit has been designed to make it convenient and easy to test, setup and monitor audio signals within AoIP networks. Operation is via it's clear and simple to use touchscreen interface and it is housed in a compact and robust case.

A 1U 19inch rack mounted AoIP monitoring and mixing unit. It allows for the creation of up to 4 independent stereo mixes of the 64 inputs. Each mix is controlled via the Nixer Remote iPad app via Wi-Fi. The resultant mix is streamed via Wi-Fi to the iPad(s) and also to the 8 AoIP outputs of the unit. Up to 4 iPads can be connected to allow for four independent mixes each one controlled via a separate iPad. More iPads can be connected but these will share mix and control of the four possible mixes.

The WL64-4 allows for two modes of operation Mix mode or Listen mode. Mix mode allow for pan and level for each channel whereas Listen mode routes the signal instantly to the output and can be additive or self-cancelling.

Wi-Fi can be set up to use the WL64-4 internal Wi-Fi SSID with a choice of 8 names (WL64-1 to WL64-8) alternatively the WL64-4 can be controlled via the Control port connected to an external router and Wi-Fi access point.

P	S	48k	Mix1	Mix 1 User Name	Mute		Wi-Fi (SSID) WL64-8
Mute	Mix2	Mix 2 User Name	Mute				
Mem	Mix3	Mix 3 User Name	Mute			IP Control 192.168.0.25	
Sys	Mix4	Mix 4 User Name	Mute				

The WL64-4 AoIP is operated and controlled via the large letterbox 6.6" diagonal (168mm) 1440 x 240 24-bit colour LCD and capacitive touch panel.

A simple and elegant menu system has been designed to be intuitive to navigate allowing the user to access all the features of the WL64-4 AoIP very quickly.

The high-resolution screen is easy to read presenting comprehensive metering, routing and status information to the user.

Nixer Ltd was founded in 2000 by two professional audio design engineers who have between them over 50 years' experience of designing and manufacturing the highest quality audio products possible. Their designs have been used on many world-famous shows on Broadway, The West End and around the world.

Welcome and Unpacking

Thank you for purchasing a WL64-4

Please take care when unpacking your product

In the box, you will find

- the WL64-4
- Quick Start Guide

Check that all the parts are present and in good condition

Please contact your retailer immediately should anything be incorrect

Quick Start Guide

Once you have unpacked your WL64-4 you can follow this quick guide to get you started using it.

Firstly, you will need to download and install a copy of Dante Controller onto your PC/Mac

You can download this from

<https://www.audinate.com/products/software/dante-controller>

Next plug your WL64-4 into your network with an RJ45 patch lead

To power the WL64-4 you will need to plug a 1.5Amp 12 – 24V DC supply with a 2.1mm barrel connector (NIX00629 can be purchased separately) into either (both for redundancy) of the power inputs on the rear of the unit. Once power is applied you will see the splash screen on the WL64-4 appear after a couple of seconds

After the WL64-4 has booted you will be presented with the main screen

If you have a valid network connection the status light in the top left side of the screen next to the P (primary) will turn green

At this point start Dante Controller on your PC/Mac and you will see your WL64-4 appear in the list of devices

You will then be able to select sources and destinations for your WL64-4

For more advice on using Dante Controller please visit the Audinate Website

Once you have done this you will be able to start using your WL64-4 via the touch screen interface

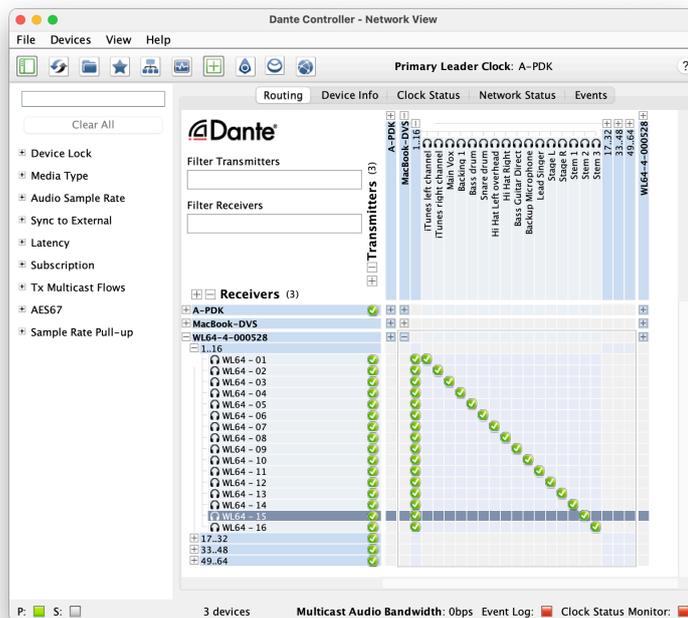
To monitor audio you will need to use one or more iPads.

Please take the time to register your WL64-4 here

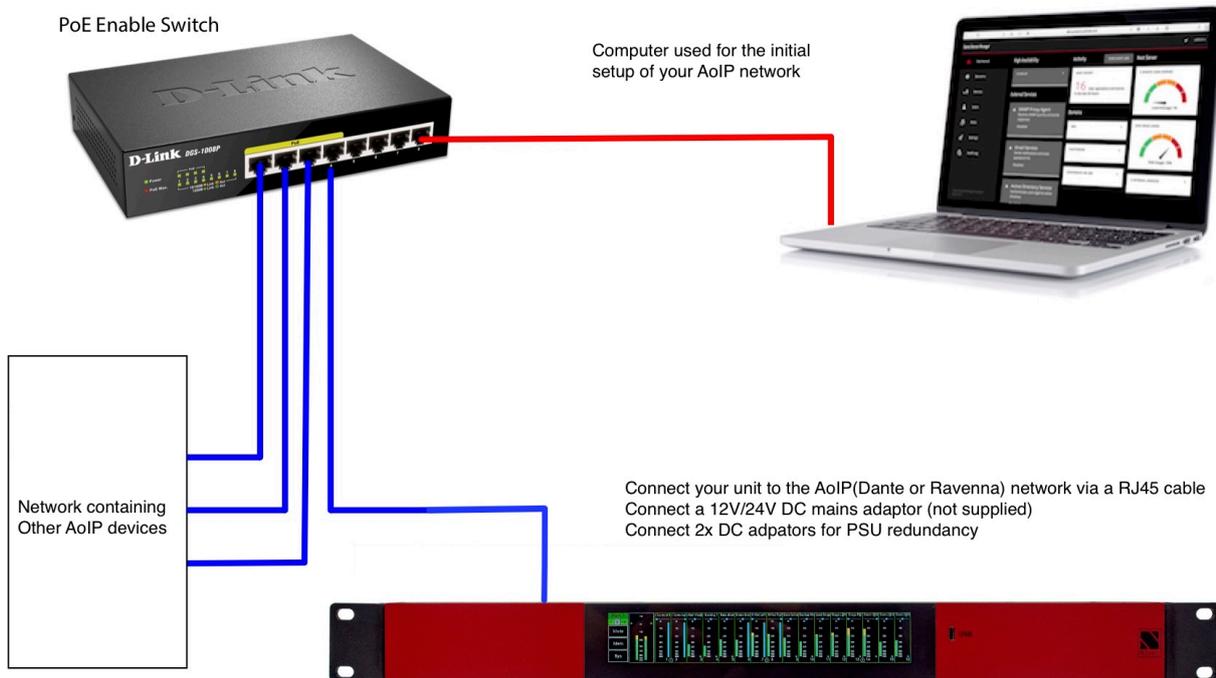
<http://www.nixerproaudio.com/Registration/registration.php>

Once you have registered you will be full access to download the User Manual and any software updates available for your WL64-4

View of Dante Controller with WL64-4 connected



Basic WL64-4 connection diagram



WL64-4 Front View



The WL64-4 is operated and controlled via the large letterbox 6.6" diagonal (168mm) 1440 x 240 24-bit colour LCD and capacitive touch panel.

A simple and elegant menu system has been designed to be intuitive to navigate allowing the user to access all the features of the WL64-4 AoIP very quickly.

The high-resolution screen is easy to read presenting comprehensive metering, routing and status information to the user.

Firmware updates of the WL64-4 AoIP are achieved via a dedicated USB micro AB connector on the front panel.

The WL64-04 is designed to be used with multiple iPads. There are 4 independent mixes available. So, with 4 iPads connected 4 users can each listen and control their own mix. More iPads can be connected but then control and mixes will be shared.

Rear View



On the rear of the WL64-4 there are 3 RJ45 connectors

1. Primary AoIP - for connecting the main AoIP interface
2. Secondary AoIP - for connecting the secondary AoIP interface
3. Control - for connecting the WL64-4 to the main Ethernet network

Please note that the WL64-4 runs a Network dependant system. The Control Port must be plugged into an active network for the WL64-4 to function correctly. Some features will not be active without this connection being present such as in the control tab shown above both the IP address and the Mask IP Address will report as 0.0.0.0 regardless of DHCP or Static IP mode.

Power

The WL64-4 can be powered by either (or both for redundancy) of the DC inputs via an external (available to purchase as an option) 1.5Amp 12v - 24V 2Amp DC adaptor. The power adaptor is not supplied as standard but the NIX00629 can be purchased separately.

Once powered you will see the WL64-4 splash screen which will give information on the Firmware version and FPGA version.

After a few seconds, you will see the main screen one of the three shown below depending on how the WL64-4 has been set.

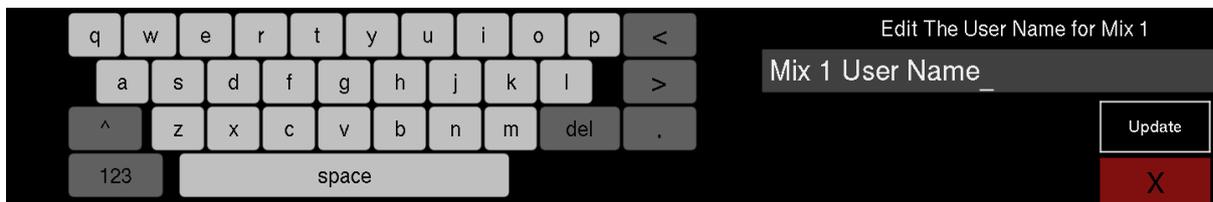
Initial Startup Screen(s)

Overview Screen

P S 48k	Mix1	Mix 1 User Name	Mute		Wi-Fi (SSID) WL64-8
Mute	Mix2	Mix 2 User Name	Mute		
Mem	Mix3	Mix 3 User Name	Mute		IP Control 192.168.0.25
Sys	Mix4	Mix 4 User Name	Mute		

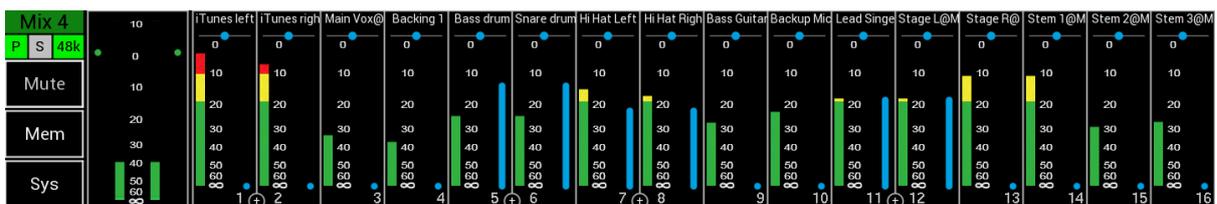
Shows the following

1. Mix number
2. Mix name – which can be changed by touching the name and editing it



3. Mute status of each mix
4. Output level meter of each mix
5. The currently set Wi-Fi SSID
6. The IP address of IP control

Mix Screen (Mix Mode) – white background



Shows the following

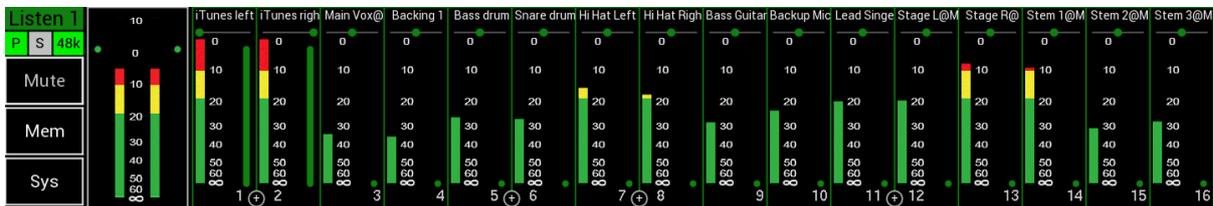
1. Mix being viewed

a. Alternative mixes are viewed by scrolling done from the top of the screen



2. 16 channels (can be scrolled left and right to see any of the 64 available channels)
 - a. Channels that have been linked in stereo are indicated with a + inside a circle
 - b. Channel signal level meter
 - c. Channel pan status
 - d. Current level setting

Mix Screen (Listen mode) – green background



Shows the following

1. Current Listen mix
 - a. Alternative Listen mixes are viewed by scrolling done from the top of the screen
2. 16 channels (can be scrolled left and right to see any of the 64 available channels)
 - a. Channels that have been linked in stereo are indicated with a + inside a circle
 - b. Channel signal level meter
 - c. Channel pan status
3. Current selected channels

Memory Menu

On pressing the Mem Button the Memory Menu window will open



This window displays the following:

- Memory number (1 to 4)
- Recall – pressing recall after selecting a memory will recall the memory
- Save – pressing this button saves the units current routing and pan settings to the selected memory

- Route All Odd – routes all odd numbered channels to the L of the Main LR mix at full volume and panned to the Left
- Route All Even – routes all even numbered channels to the R of the Main LR mix at full volume and panned to the R
- Route All – routes all odd numbered channels to the L of the Main LR mix at full volume and panned to the Left and routes all even numbered channels to the R of the Main LR mix at full volume and panned to the R
- Clear All – clears routing and sets pan to centre on all channels
- X – pressing this button closes this window

Selecting a memory

Pressing the name of a memory will highlight that memory which will then be displayed in a larger font. This indicates which memory will be recalled, saved or have its name edited.

Selecting auto recall of a memory

A memory can be selected to Auto Recall when the RL64 is turned on

- Select the memory you would like to Auto Recall
- Press the Auto Recall button which will change the Memory number to red indicating that this memory will be recalled on power on
- Memory set to be recalled is always shown in red

Sys menus

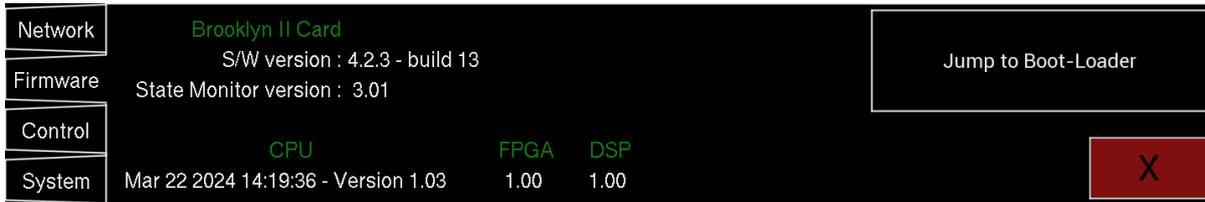
Press the Sys button the main screen to see the system options

Network Tab

Network	Network : Primary	Secondary
Firmware	IP address : 192.168.0.233	172.31.133.172
Control	Mask IP address : 255.255.255.0	255.255.0.0
System	Gateway IP address : 192.168.0.1	0.0.0.0
	Speed : 1000 Mbits/sec	0 Mbits/sec
	Unit Type : Dante	

The network tab shows the status of Primary and Secondary RJ45 ports
It also displays the AoIP type

Firmware Tab



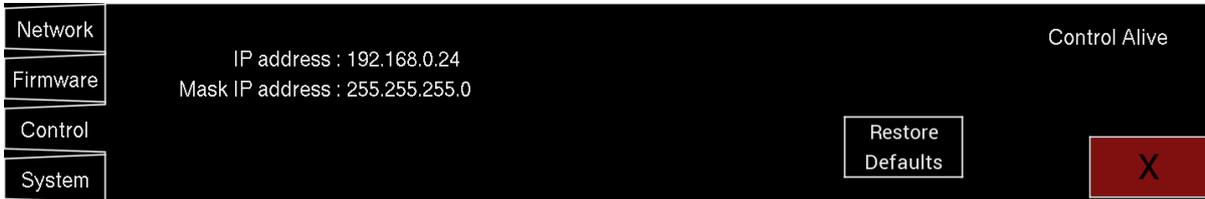
This shows the versions of firmware installed on the WL64-4

Versions should be as follows (or later)

- CPU – Version 1.03
- FPGA – Version 1.00
- DSP – Version 1.00
- State Monitor
 - Brooklyn II card – Version 3.01
 - Brooklyn III card – Version 4.00
 - ZMAN card – Version 1.02

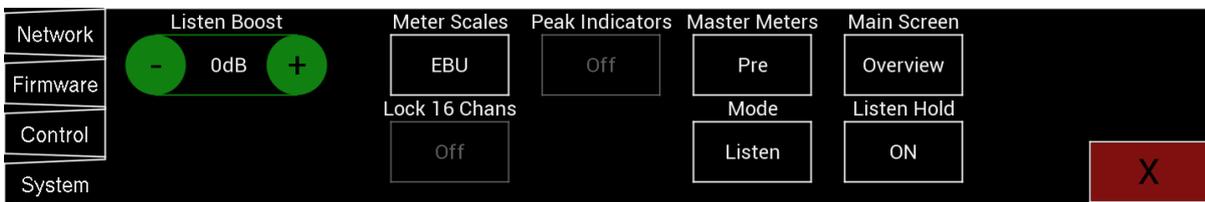
If the version are as listed above are earlier versions will need to be updated as per the update procedure

Control Tab



Type the IP address shown into a web browser to be taken to the WL64-4 Series Web interface.

System Tab

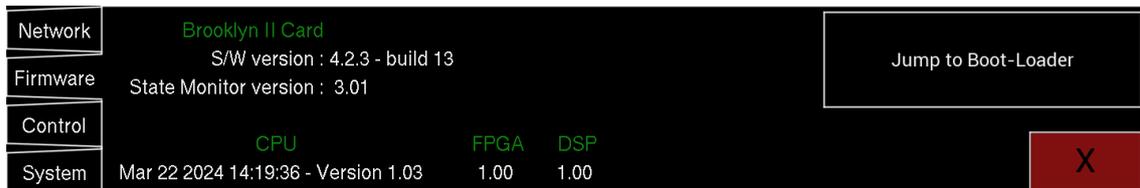


In this tab the following settings can be set

1. Listen Boost – use the plus and minus buttons to set the listen boost up to a maximum of 30dB of gain in 1dB steps
2. Meter scales – change the meter scales between the following standards
 - a. EBU

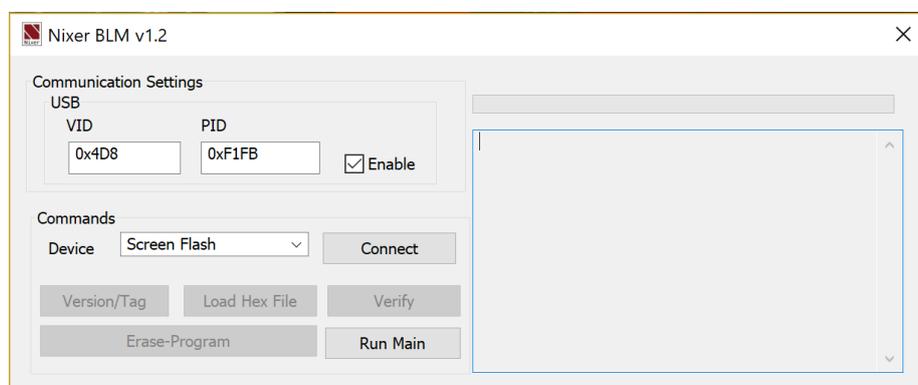
- b. SMPTE
3. Peak Indicators – can be turned on or off
4. Master Meters – can be set to be Pre or Post the Mute and Volume settings
5. Main screen – select between
 - a. Overview screen
 - b. Mix screen
6. Lock 16 Chans – locks the screen to display the first 16 channels only and disables the left/right scrolling function
7. Mode – sets the mode to either
 - a. Mix mode
 - b. Listen Mode
8. Listen Hold – selects the Listen function to either automatically cancel the previously selected listen or work in additive mode where each Listen is added and not cancelled

Update

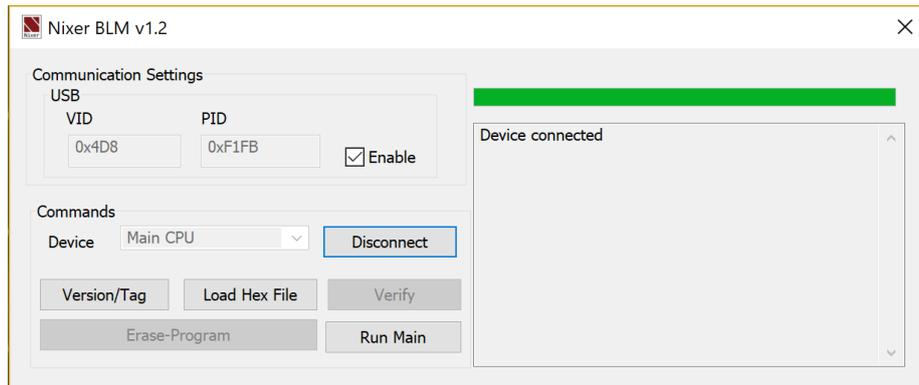


To update your WL64-4

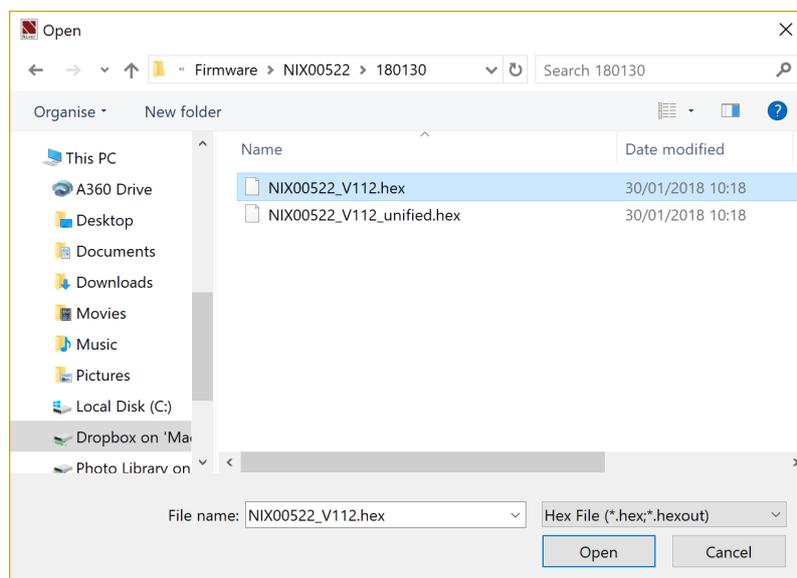
- If you do not have it download and install the Nixer BLM.exe from www.nixerproaudio.com
- Also download the latest firmware from ww.nixer.uk.com to your PC
- Next attach the RL64 to the PC via the USB cable that came with your product
- Navigate to the Update Menu in the System menus and press the button to enter Boot Loader Mode. You will see a countdown of dots before the screen goes blank
- Your WL64-4 is now ready to update
- Run the Nixer BLM program on your PC



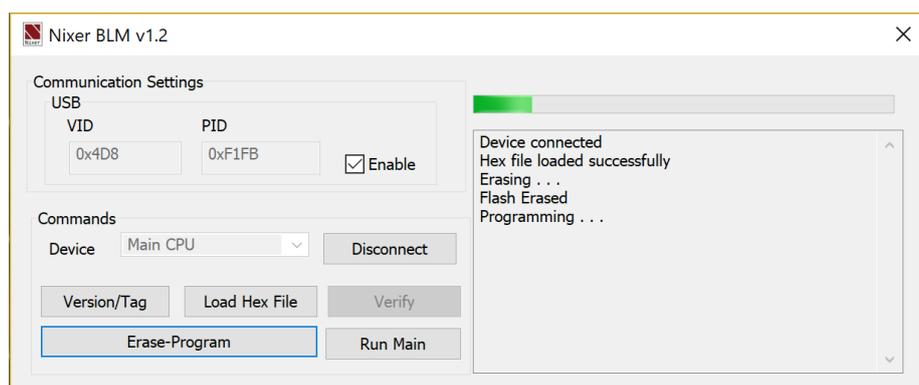
- Once the program is running change “Screen Flash” to “Main CPU” via the drop-down menu and click connect



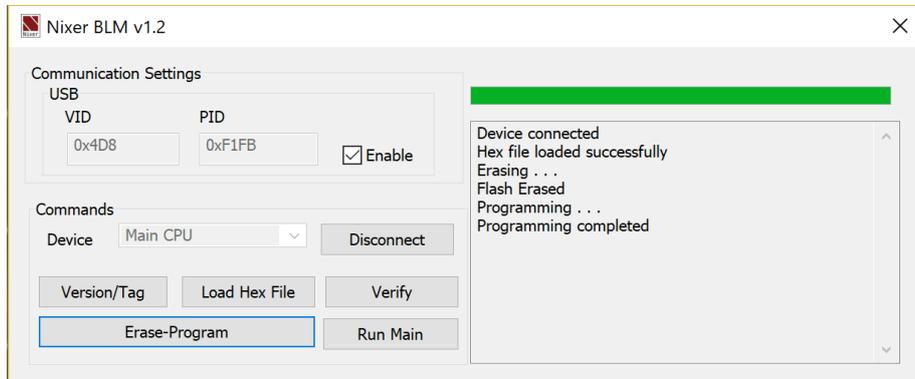
- You will now see that it says device connected in the status window
- Click on Load Hex File. Next navigate to and load in the .hex file that you downloaded from ww.nixerproaudio.com



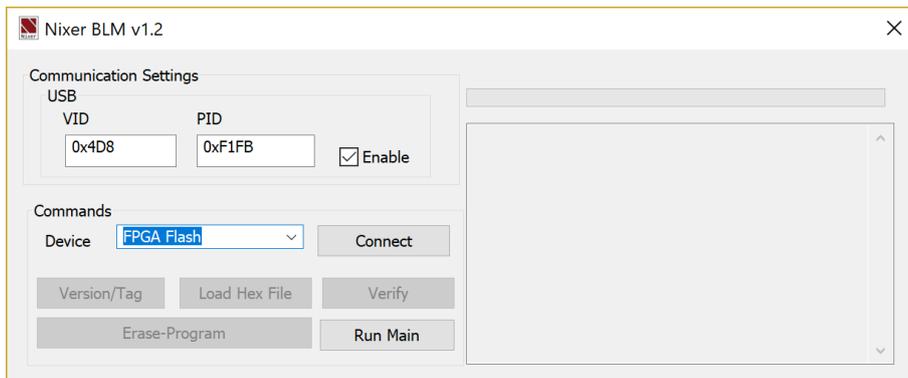
- Click the Erase-Program Button and your device will be reprogrammed. You will see the progress in the status window and by the status bar which will gradually fill as the device is programme



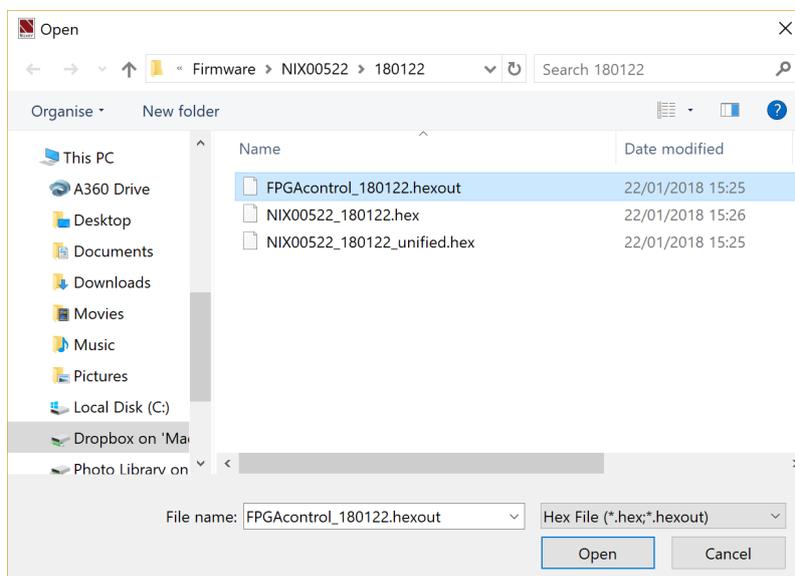
- When the device has been programmed the status window will say “Programming completed. Click Run Main and your unit will reboot with its updated software



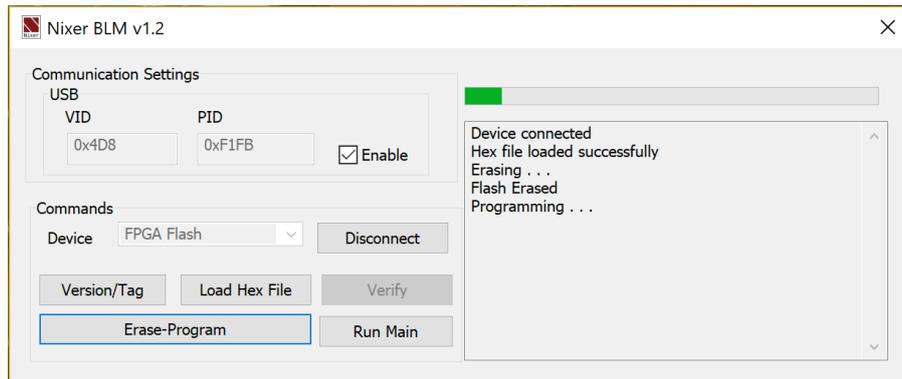
- To update the FPGA firmware, start the Nixer BLM program
- Select FPGA Flash from the pull-down menu and click connect



- Once connected click Load Hex File and navigate to and open the .hexout file you have downloaded

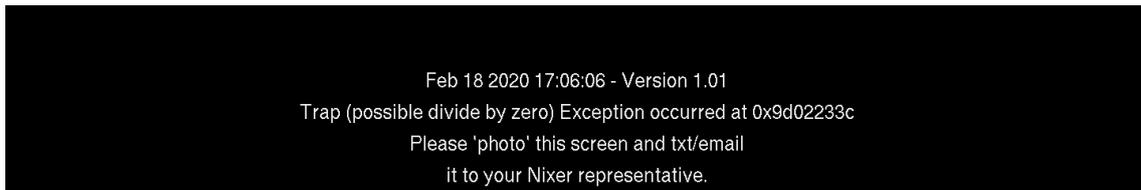


- Click Erase-Program



- Once the status window says Programming complete click Run Main and your WL64-4 will reboot
- When the Splash Window starts you will see confirmation of the Main CPU firmware followed by the FPGA version

Exceptions and Errors



If you experience an Exception which causes the WL64-4 to freeze please take a picture of the screen and email it to support@nixerproaudio.com
Please also supply if possible, a description of how you were using the WL64-4 at the time the error occurred, what screen you were in, buttons pressed etc

Restarting your device should resume normal functionality again

Support

Additional information about Nixer products, updates, manuals etc can be found at

www.nixerproaudio.com

All support and technical questions should be addressed to your local distributor or can be sent directly to

support@nixerproaudio.com

WL64-4 Web Interface

The screenshot shows a web browser window with the URL 192.168.0.25. The page title is "WL64" and the navigation menu includes "PORT SETUP" and "ADMIN SETTINGS". The main content area is titled "Network" and contains the following sections:

- Network:**
 - DHCP:
 - IP Address:
 - Subnet:
 - Gateway:
 - DNS1:
 - DNS2:
 -
- Primary Network:**
 - Configure the default network for communications.
 - Default Network:
- WiFi Configuration:**
 - You can have multiple WL64 units running on any network. To distinguish these units over WiFi, each unit can have a different SSID.
 - Changing this setting will cause the WL64 WiFi to restart.
 - SSID:
- iPad Audio Latency:**
 - Latency is the delay from source to the playback via the iPad monitor function.
 - Depending on WiFi strength / network speeds, this latency setting may need adjusting to stabilize the audio stream.
 - iPad app will need to be restarted for this change to take effect.
 - Latency (ms):
- Software Update:**
 - Running Firmware: 1.1.4
 - Upload Firmware: no file selected

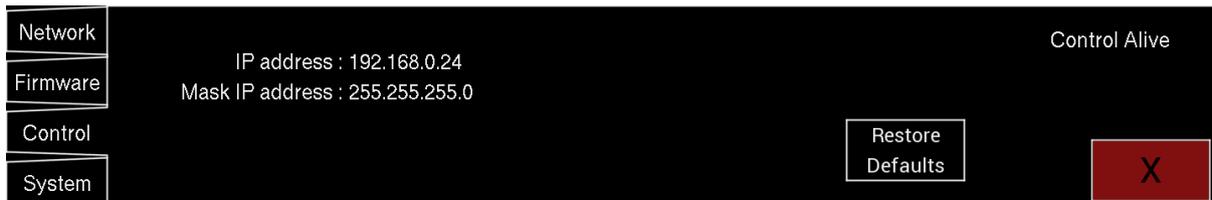
On the web interface check that the Running firmware is 1.1.4 or above.
To update the firmware, use the Choose file button and follow the instructions.

The web interface allows you to set up the WL64-4 control port.

As standard the WL64-4 control port is set up to use a DHCP server to obtain an IP address. Please make sure to connect to a DHCP server before trying to change any settings.

It also possible to use the WL64-4 with a self-assigned IP address when no DHCP server is available. The unit will need to be power cycled when changing how it is connected.

Once the WL64-4 has an IP address you can find this address by going to the Sys tab, then the Control Tab on the WL64-4 LCD



Setting DHCP or Fixed IP address (LAN only)

The Web interface will allow you to change the control port settings.

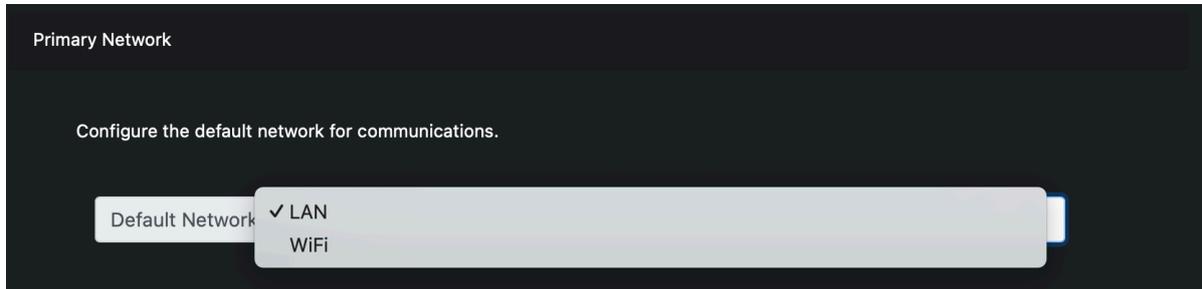
You can select whether the unit is in DHCP mode or Fixed IP mode. Tick the DHCP box to use this mode.

Alternatively, if a fixed IP address is required for use in a system without a DHCP server then fill out the five boxes.

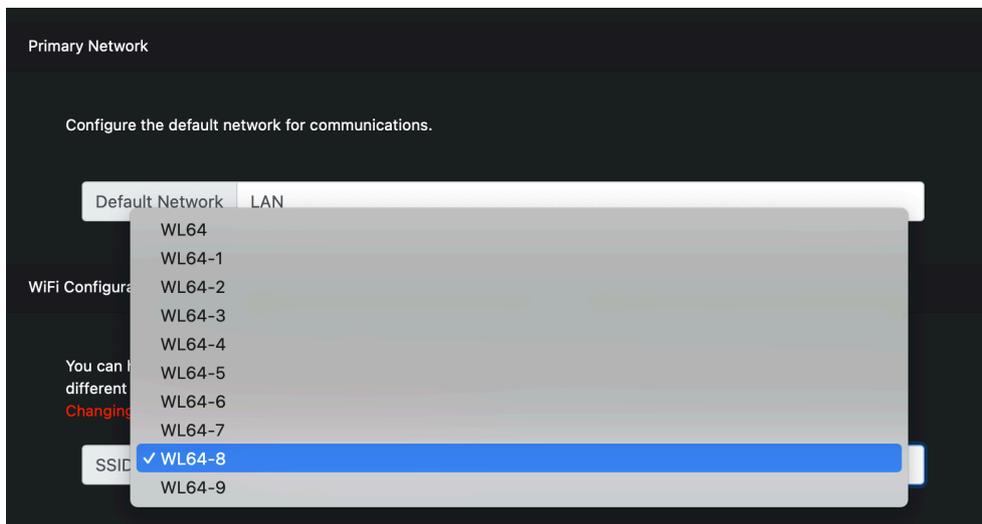
1. IP Address – type the required IP address.
2. Subnet – type the required subnet mask.
3. Gateway – type the IP address of the gateway.
4. DNS1 – type the address of
 - a. the required DNS1 server
 - b. or 0.0.0.0 if no DNS1 is required.
5. DNS2 – type the address of
 - a. The required DNS2 server
 - b. Or 0.0.0.0 if no DNS2 is required.
6. Once all five boxes have a valid value the Submit button will appear
7. Press the Submit button to set these values.
8. If the unit has had a fixed IP set and it can't be accessed on the current network go to the WL64-4 LCD and press Sys, then Control and press the Restore Defaults button to return the unit to DHCP mode.

iPad connection to the WL64-4

Internal Wi-Fi



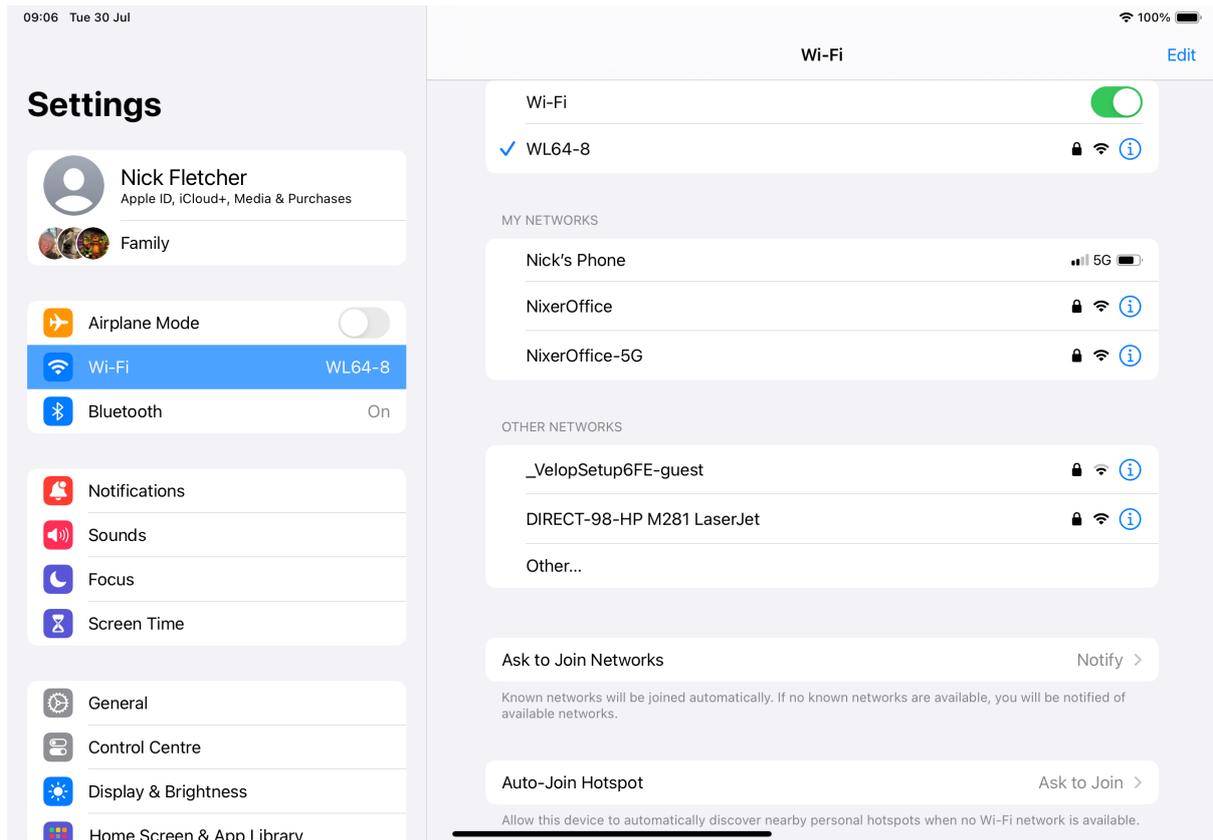
To connect the iPad to the WL64-4 via the internal Wi-Fi adaptor select the Primary Network to be Wi-Fi from the Default Network drop-down menu.



Next in Wi-Fi Configuration select the required SSID from the SSID drop-down menu. There is a choice of up to ten different names if multiple WL64-4 units are being used in the same area.

Once you have selected the SSID and the unit has had a couple of minutes to reboot the Wi-Fi interface you will need to change the setting on the iPad

Please note: the only user setting for the Wi-Fi adaptor inside the WL64-4 is the SSID name. There is no need to set DHCP/Static IP etc



Go to the Wi-Fi tab and select the SSID that you have set in the WL64-4. You will be asked to input a password which will be “m1ndth3g4p” without the quotation marks.

Please Note: That iPads will default to the last known good Wi-Fi connection when the WL64-4 is powered off and the WL64-4 SSID will need to be reselected on power up.

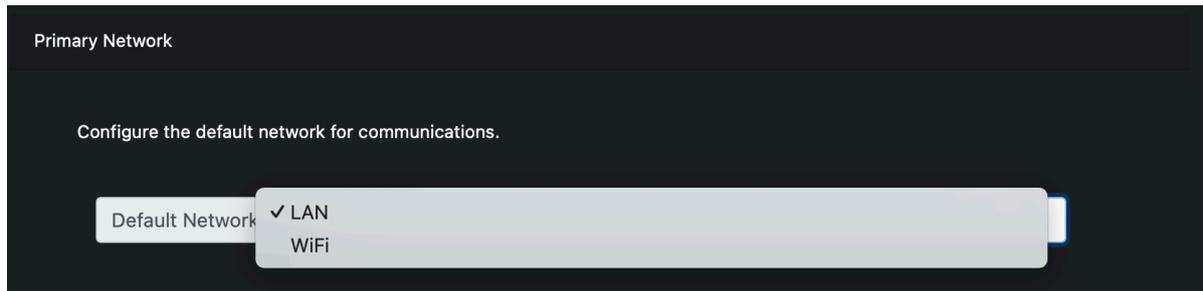
Next go to the Nixer Remote settings on the iPad

Make sure that Location is set to Always – not doing this will cause the App to crash as this is needed for the Wi-Fi to work correctly.

Also make sure that Control IP box is blank – delete any IP address set in this box as it will cause the App to not function correctly.

You will now be able to start the App and control the WL64-4.

Using the LAN (control port) via an external Wi-Fi access point

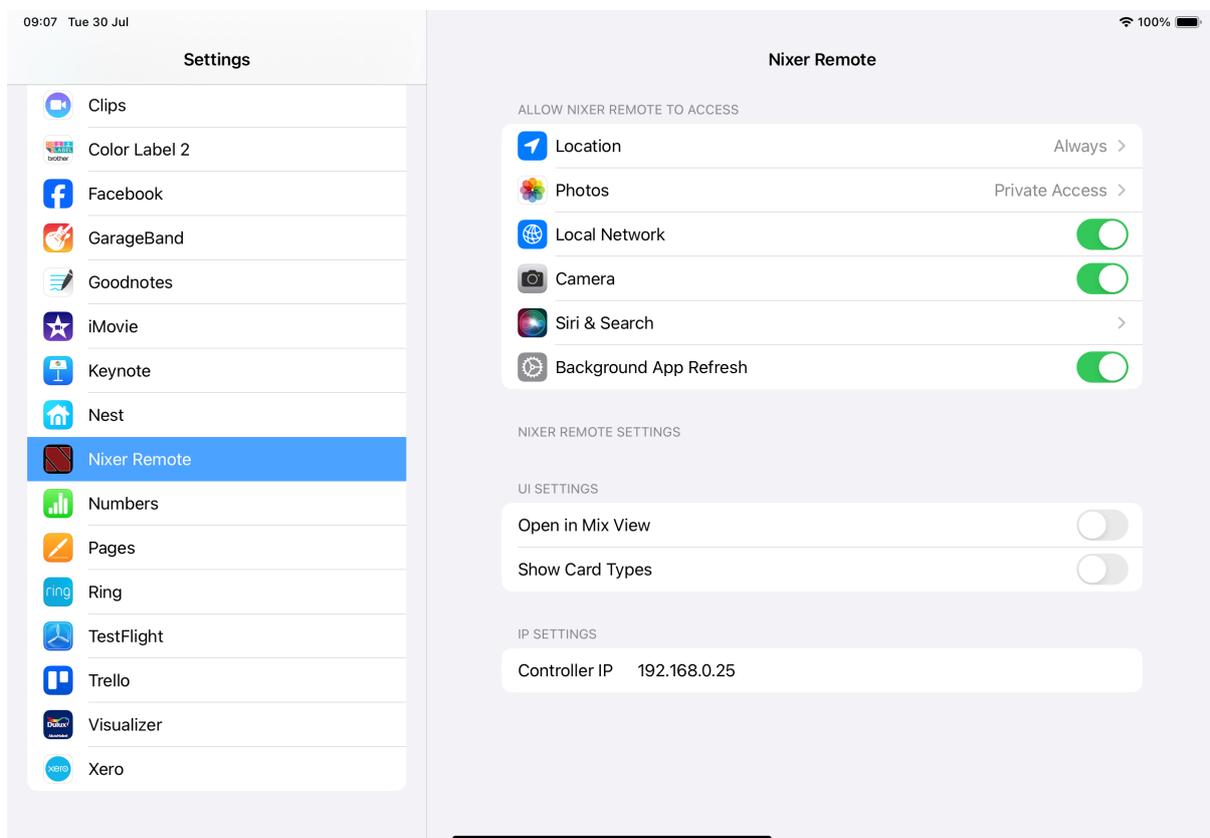


To connect the iPad to the WL64-4 via the LAN (control port) and external Wi-Fi access point select the Primary Network to be LAN from the Default Network drop-down menu.

When selected to LAN the SSID is ignored so doesn't need to be set.

Next connect your iPad to the external Wi-Fi access (see the instructions for the external Wi-Fi access point for more details)

Open the iPad Nixer Remote settings.



Make sure that Location is set to Always – not doing this will cause the App to crash as this is needed for the Wi-Fi to work correctly.

Add the IP address of the LAN control port into the Control IP box.

You will now be able to start the App and control the WL64-4.

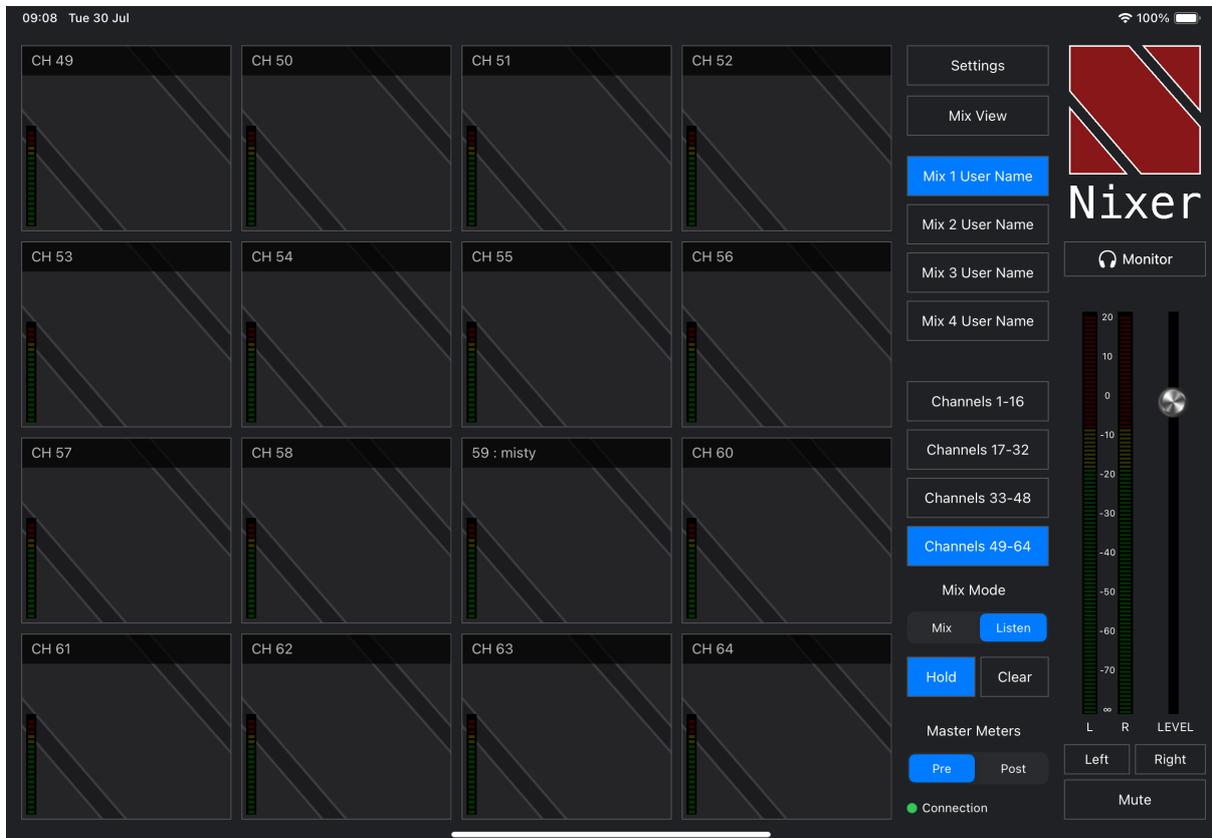
Installing the App on the iPad

Please install TestFlight on your iPad
Then use the link below to download the App and install it

<https://testflight.apple.com/join/Kc3rEbLq>

Using the App

Once the App has been installed and started you should see a screen like the one shown



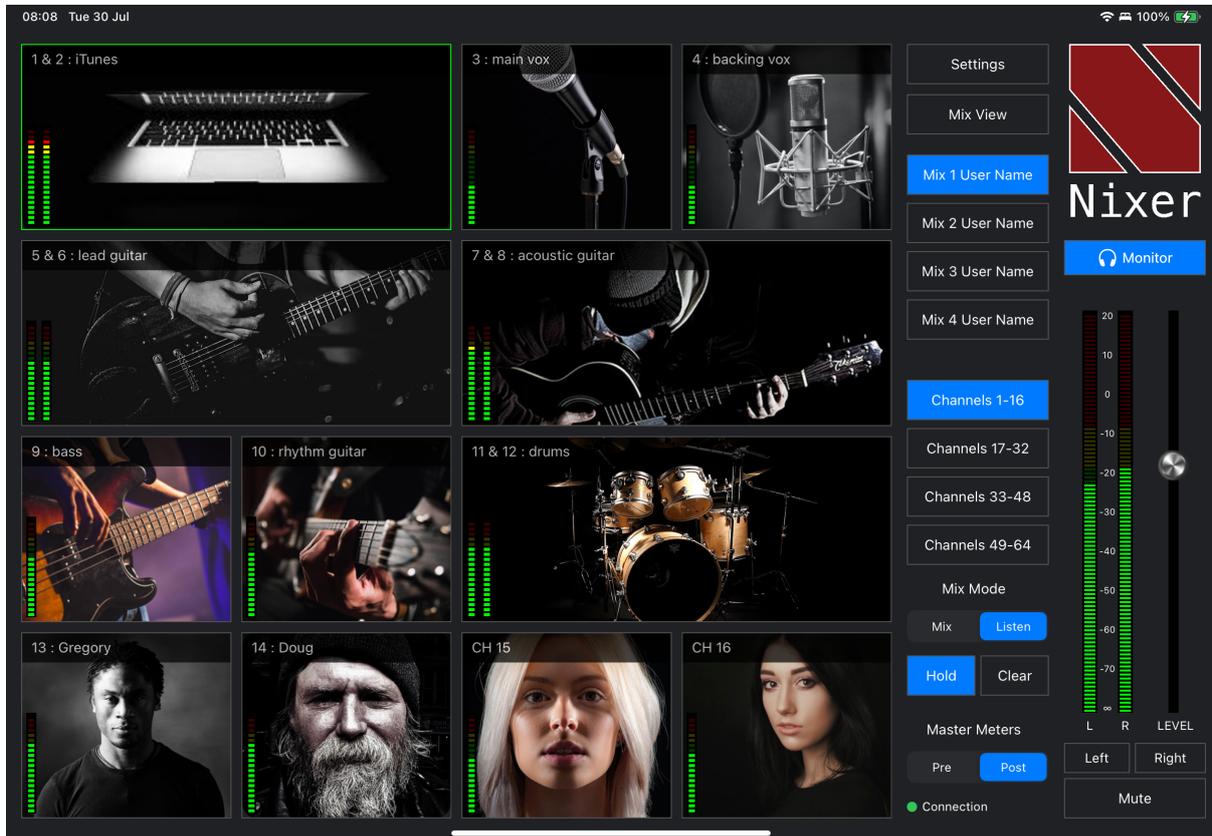
below

From here you can do the following

- Adjust Settings
- Change to Mix view
- Select alternative Ports (where fitted to the WL64-4 Series unit)
- Select Channels in groups of 16 (1 to 16, 17 to 32, 33 to 48 and 49 to 64)
- Switch Mix Mode between
 - Mix
 - Listen
- Select Meters to be Pre or Post fader
- View an active RL connection
- Turn Monitor on or off – this enables or disables the audio from the WL64-4 Series unit to the iPad.
- View output meters
- Adjust the Main Level
- Mute
 - Left only – press Left
 - Right only – press right
 - Left and Right – press Mute

Example Main View

The picture below shows a configured iPad App with audio present, user selected pictures in each cell, user defined names, stereo channels defined and Monitor audio selected.



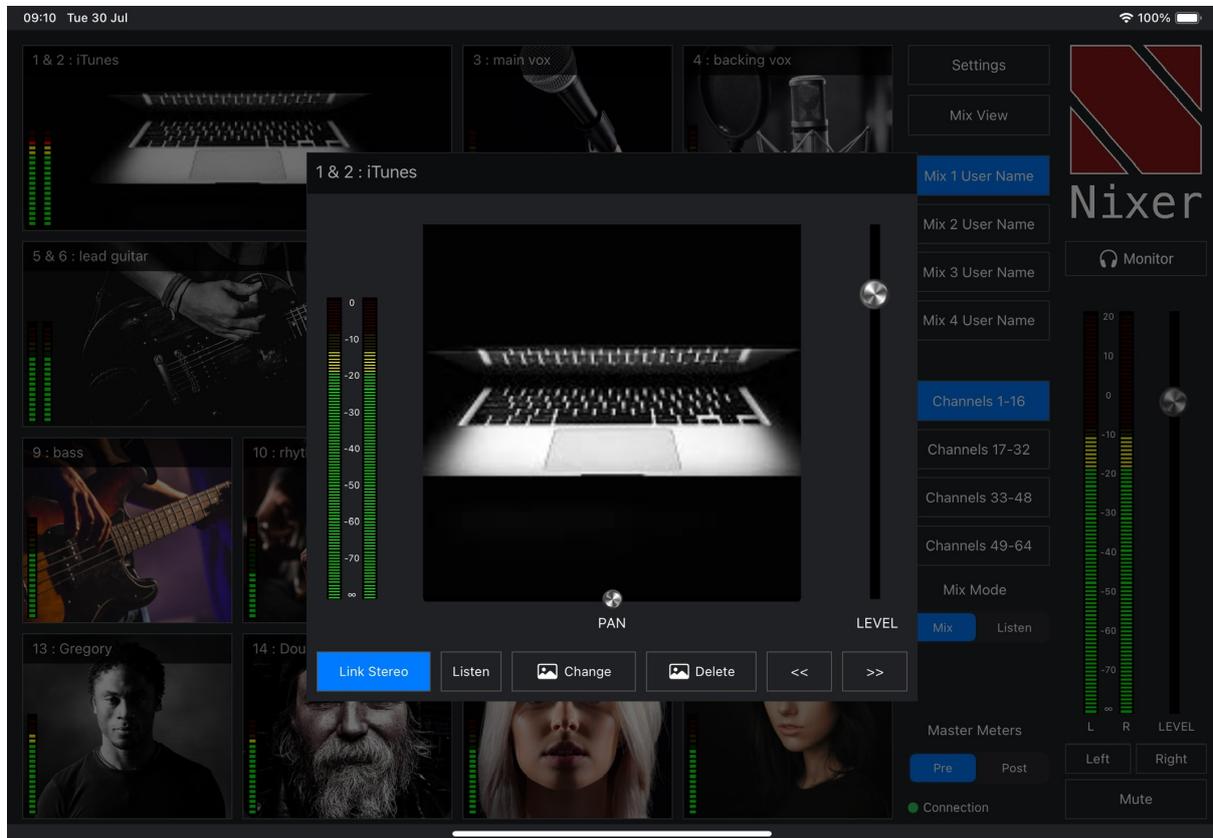
Channels can have the following properties.

- Channel number
 - Mono channels – a single number
 - Stereo channels – an odd and even number i.e., 1 & 2
- Channel name – either
 - Channel number
 - given a user defined name
- Channel Picture
 - Mono channels – have either a blank picture or a user defined picture
 - Stereo channels – have two cells combined and either a blank picture or a user defined picture
- Channel Meter(s)
 - Mono channel – a single meter
 - Stereo channel – has a stereo meter

Channel Pop-up

Channels properties can be changed by touching the respective cell. This will bring up a pop-up window as shown in the picture below.

Please Note: this is only available in Mix Mode and is inactive in Listen mode.

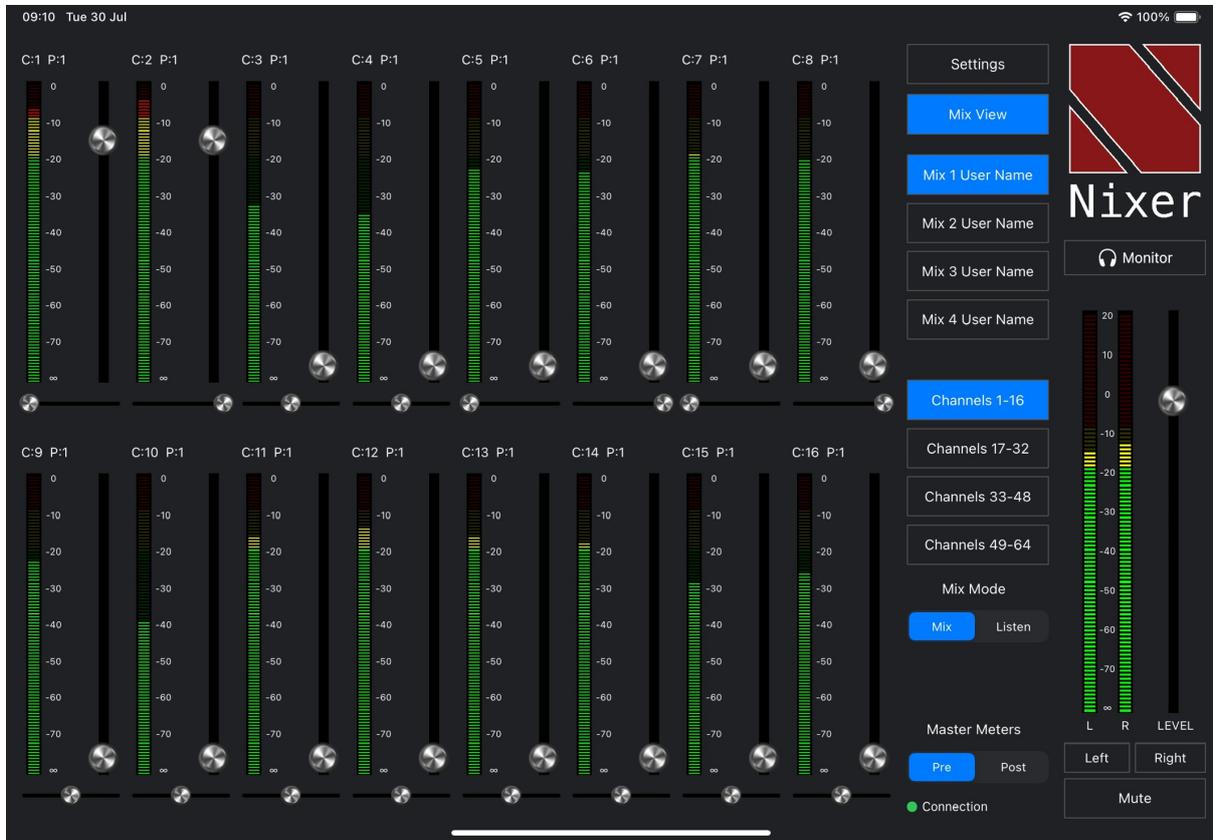


In the channel pop-up window, the following items can be edited

- Channel name – tap the channel name to edit it
- Level – touch the slider control knob and slide to the desired level.
- Pan – touch the Pan slider control and pan to the desired position
- Link Stereo touch to toggle mode
 - Grey indicates the channel is set to mono
 - Blue indicates the channel has been set to stereo
 - Note stereo channels are always an odd channel and even channel that are next to each other i.e., 1&2, 3&4 etc
- Listen – press this to hear the selected channels audio
- Change – press this to change the cell picture.
- Delete – press this to delete the cell picture
- << - will select the next lower cell
- >> - will select the next higher cell
- Tap outside of the pop-up to return to the main screen

Mix View

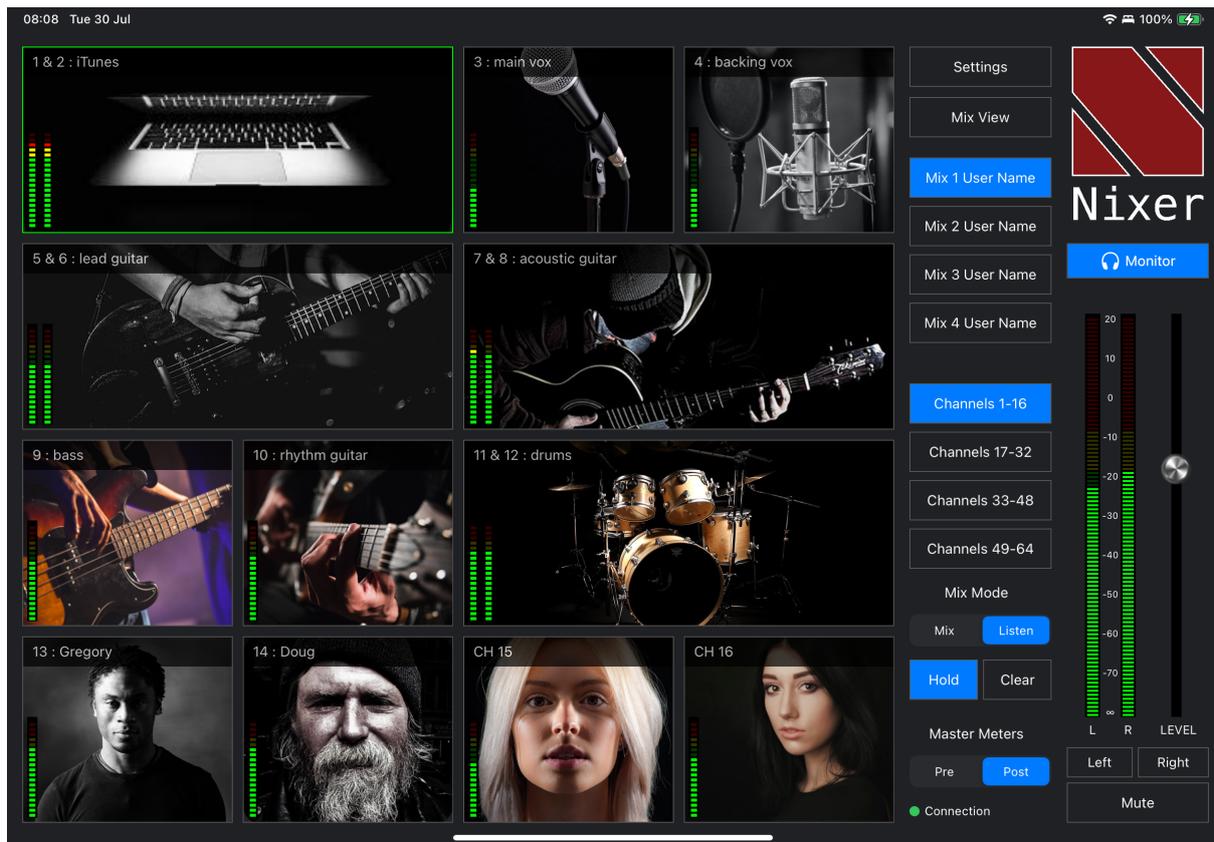
Pressing the Mix View button to alternate between the normal view and the mix view
The Mix View button turns blue in Mix View – screen shown below



This layout allows the user to use the WL64-4 unit as a simple mixer, with level and pan controls.

Touching a meter will bring up the Channel Pop-up as per the Main view (Mix mode only)

Mix and Listen Modes

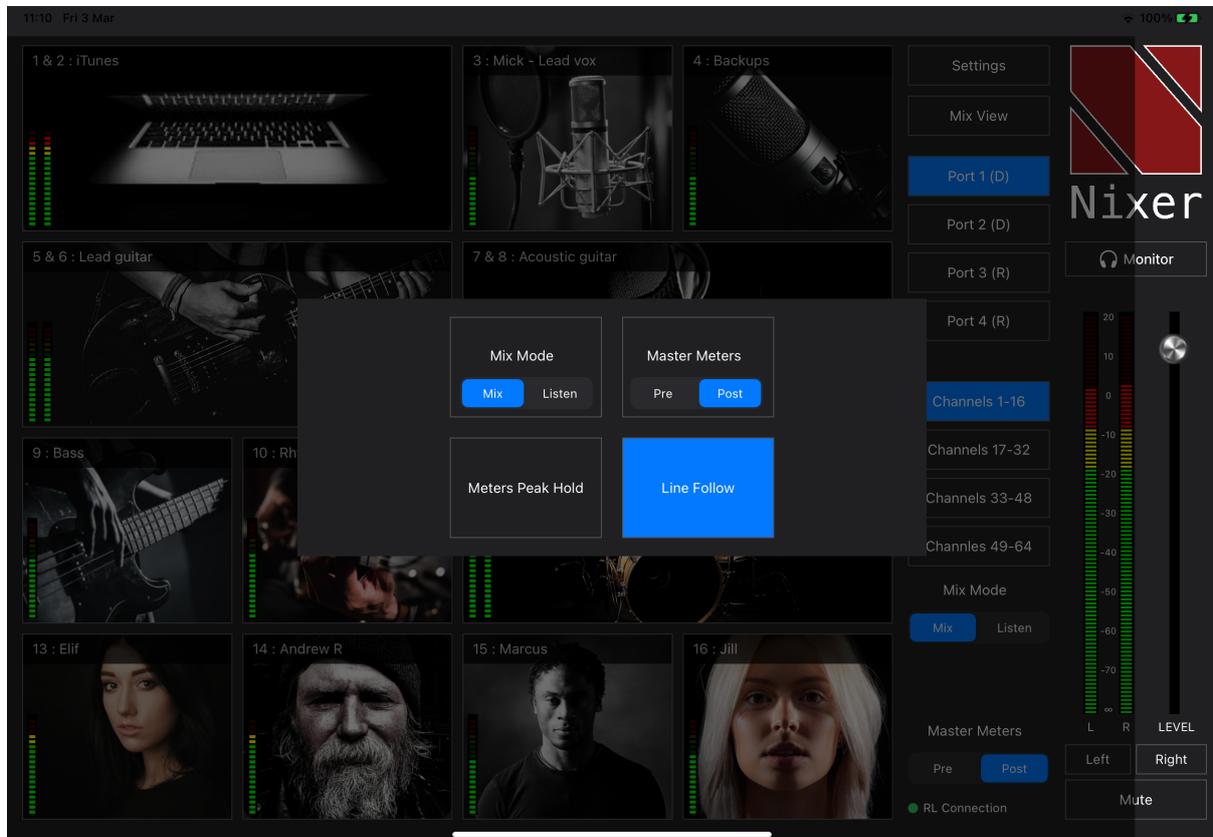


The iPad App allows the WL64-4 Series unit to be used in two different ways.

- Mix – in this mode a mix of the channel signals can be created with level control and pan control
- Listen – this mode operates in one of two ways:
 - Hold – Off.
 - touching a channel cell will highlight that cell in green and automatically route the audio.
 - Stereo channels will be selected in stereo to the left and right output.
 - Mono channels will be selected and sent in mono to the left right output.
 - Pressing another cell automatically clears the first.
 - Hold - On
 - touching a channel cell will highlight that cell in green and automatically route the audio.
 - Each additional cell touched will also be highlighted in green and the audio added into the mix.
 - Stereo channels will be selected in stereo to the left and right output.
 - Mono channels will be selected and sent in mono to the left right output.
 - To clear the selection(s) press the Clear button.

Settings

Pressing the Settings button will bring up the Settings Pop-up shown below



Mix Mode

- Mix – activates mix mode
- Listen – activates listen mode.

Master Meters

- Pre – sets the Master meters to be before the fader control
- Post – sets the Master meters to be after the fader control

Meters Peak Hold

- This activates the meter hold function

Line Follow

- As standard the Line Outputs of the WL64-4 Series unit are fed a signal that is before the main output fader
- Activating the Line Follow function means that the Line Output level is affected by the main output fader