

REDNET X2P

User Guide



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www.focusrite.com

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About this User Guide

This user guide applies to the RedNet X2P Dante interface and mic preamp with stereo line & headphone monitoring. It provides information about installing and using the unit, and how it can be connected into your system.

A RedNet System User Guide is also available from the RedNet product pages of the Focusrite website. The guide provides a detailed explanation of the RedNet system concept, that will help you achieve a thorough understanding of its capabilities. We recommend that all users, including those already experienced in digital audio networking, take the time to read through the System User Guide so that they are fully aware of all the possibilities that RedNet and its software have to offer.

Should either User Guide not provide the information you need, be sure to consult:

<https://pro.focusrite.com/technical-support>, which contains a comprehensive collection of common technical support queries.

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Box Contents

- RedNet X2P unit
- Ethernet cable
- Locking DC power supply
- Safety information cut sheet
- RedNet Getting Started Guide
- Product Registration Card – please follow the instructions on the card as it provides links to:
 - RedNet Control
 - RedNet PCIe drivers *(included with RedNet Control download)*
 - Audinate Dante Controller *(installed with RedNet Control)*
 - Dante Virtual Soundcard (DVS) Token and download instructions

INTRODUCTION

Thank you for purchasing the Focusrite RedNet X2P.



RedNet X2P incorporates two local Red Evolution mic/line/instrument preamp channels, plus two channels of premium D-A conversion for Dante audio-over-IP signals, to provide a stereo monitoring unit, featuring separate headphone and line outputs.

Local analogue input is via two Combo connectors on the rear panel, providing Mic/Line input on balanced XLR, or instrument input on standard 1/4" jack. Separate controls for gain, +48V phantom power, polarity inversion, high-pass filter and Air mode, plus a control for the Network/Local Mix, are included on the front panel. The input encoders can function independently or be linked together, and the channels are sent to the outputs as either stereo or mono-summed.

RedNet X2P includes two line-output XLRs plus a stereo TRS 1/4" jack socket. It provides high-quality digital to analogue conversion for accurate monitoring on loudspeakers or headphones and is designed to drive high or low impedance headphones at high levels with significant audio output power. Separate volume control knobs are provided for Headphone and Line output levels, the latter featuring buttons for mute and Input Mix, with associated LEDs.

An LCD display on the front panel provides: status information about the device and preamp controls, level metering plus network flags and lock information.

The compact unit, mounted in an enclosure based around a sturdy road-worthy aluminium extrusion, is fitted with non-slip feet and can either sit securely on a flat surface or be mounted on top of a mic stand using the 3/8" BSW threaded bush incorporated in the base.

Dual locking etherCON connectors are included on the rear-panel to connect to the network and to daisy-chain to additional network devices.

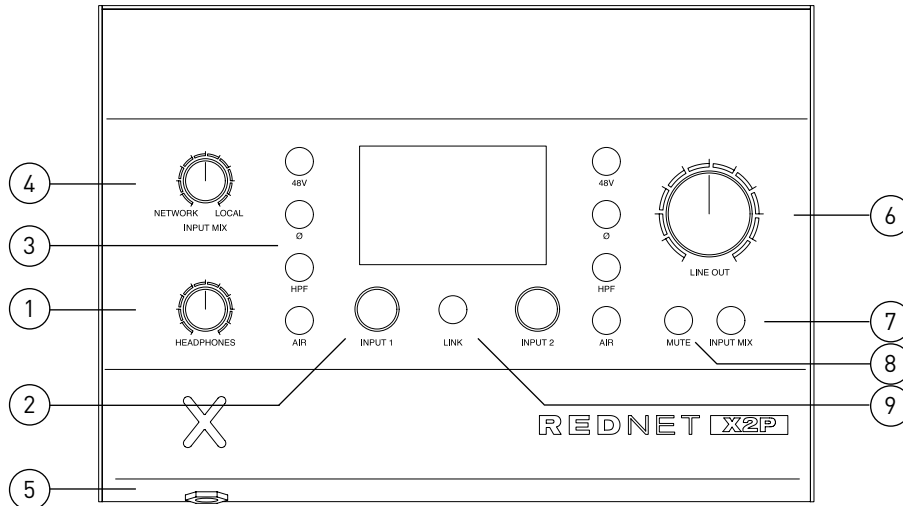
The unit is powered via Power over Ethernet (PoE) or via the locking rear-panel barrel connector and included DC power supply. Each PSU's status can be monitored remotely over the network and on the LCD display.

Tailored for all environments, each unit features two network ports, PoE and DC power options, rugged construction with latching connectors, remote control and remote monitoring – RedNet X2P is the perfect portable break-out solution for analogue monitoring from a Dante network.

INSTALLATION GUIDE

RedNet X2P Connections and Features

Top Panel



1. Headphone Level Pot

Controls the volume level sent to the stereo headphone jack.

2. Local Input Gain Encoders

Independent gain controls for the Local inputs on Combo connectors 1 and 2.

Either encoder's control can be applied to both channels using the LINK function; see next page.

3. Local Input Function Switches

Two sets of function switches for Local Inputs 1 and 2:

- 48V – Enables 48V phantom power on the XLR input.
- Ø (Phase) – Enables phase reverse
- HPF – Enables 80Hz high pass filter
- AIR – Changes the input characteristics to Air mode. *See page 17 for further information*

4. Input Mix Pot

Adjusts the level balance between the Network and the Local input signals. The mix signal can be smoothly varied between fully Network and fully Local using the pot. *This mix signal is always sent to the headphone socket.*

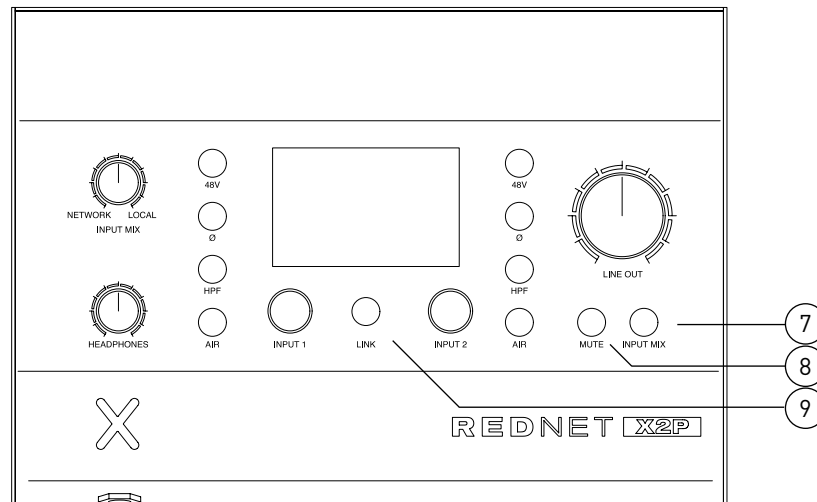
5. Headphone Socket

Standard 1/4" stereo jack for headphones.

6. Line Output Level Pot

Controls the volume level sent to the Line Output XLRs.

Top Panel ... Continued



7. Input Mix Switch

Press to send the combined Network/Local mix signal to the Line Output XLRs. When not active the Line Outputs will receive the Network signal only.

Press-and-hold for 1.5 seconds to display the Line/Headphone output signals on the LCD display's level meters. The signals will be visible while the switch remains pressed.

8. Mute Switch

Press to mute the Line output XLRs. *Power-up state is configurable from the Tools menu.*

Press and hold for 1.5 seconds to activate the Reverse ID function which will highlight the device in RedNet Control. Reverse ID will be active while the switch remains pressed.

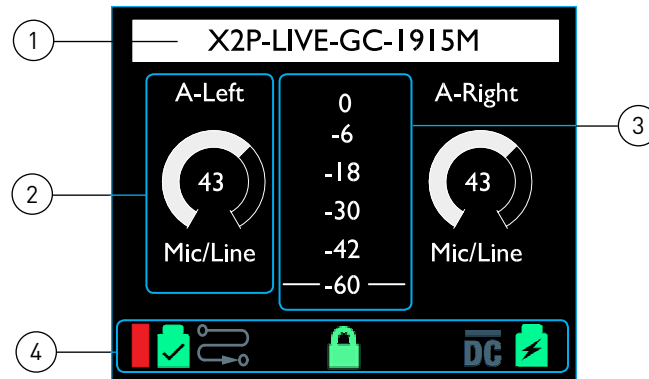
9. Link Switch

Press to combine the Local Input Gain encoders so they affect both channels. When Link is active, changing the level of either encoder will alter both channels by the same amount. Any existing offset between the two channels will be maintained.

Note that the action of the link switch will be modified if the "Auto" option is selected from the Tools menu. In this mode, the Line and Headphone outputs will switch between Stereo (Link on), and Mono-Summed (Link off) – where each Local input becomes a mono source feeding both the Left & Right outputs.

Press-and-hold for 1.5 seconds to activate Front Panel Lockout. *See page 12 for full description of Lockout options.*

LCD Display



1. Status Bar

Shows the name of the device as given in RedNet Control or Dante Controller – updated automatically. *Names longer than the display will be truncated with “...”*

The display will also show confirmation of any lock actions. Messages will be displayed for 3 seconds before returning to the device name:

- “Preamps Locked” – Appears when the preamp controls are locked on the device
- “Line Output Locked” – Appears when Line outputs are locked on the device
- “Preamps/Line Out Locked” – Appears when both options are locked on the device

2. Preamp Control & Status

Shows the following information for both Local input preamp channels:

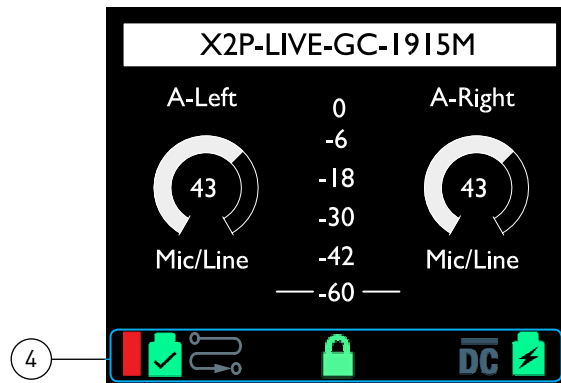
- Channel name – Live update from RedNet Control or Dante Controller
- Gain control icon – Shows level control position and gain value, 0–68dB in 1dB steps
- Input type – Mic / Line or Instrument

3. Level Meter

Shows signal level, after gain control and input function, for preamp inputs 1 and 2. LED colours represent the following signal levels in dBFS:

Red:	0dB
Yellow:	-6dB
Green:	-18dB
Green:	-30dB
Green:	-42dB
Green:	-60dB

LCD Display ... Continued







4. Status Icons




Each icon can be off (black) or illuminated as follows:

 Dante signal level in dB:

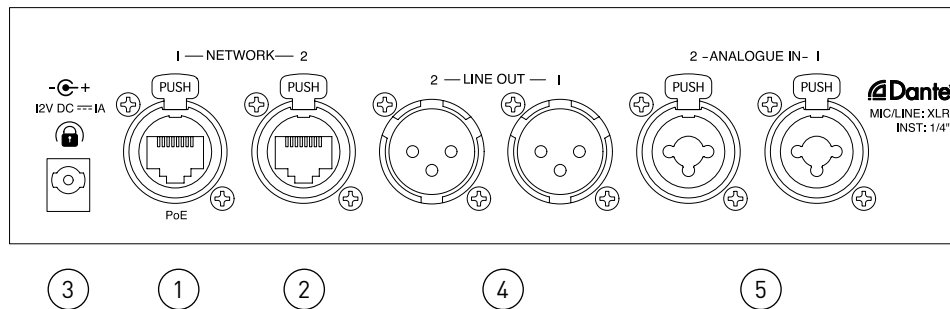
Red:	0dB
Yellow:	-6dB
Green:	-42dB
Black:	<-42dB

-  Locked – Illuminates if unit is successfully locked to the network
-  Preamp Lock – Illuminates if any of the lock states is active. The icon will flash if locked controls are modified. *See page 12 for full description of Lock functions*
-  DC power input – Illuminates if power is being received from the external DC supply
-  PoE power input – Illuminates if DC power is being received via the Ethernet cable

Device routing:

-  Two receive channels are routed
-  One receive channel is routed
-  No receive channels are routed

Rear Panel



1. Network Port 1 / Primary Power Input*

RJ45 [etherCON] connector for the Dante network. Use standard Cat 5e or Cat 6 network cables to connect RedNet X2P to an Ethernet network switch.

Power over Ethernet (PoE) can be used to power the RedNet X2P. Connect an appropriately powered Ethernet cable to network port 1.

2. Network Port 2

Second RJ45 [etherCON] network port which can be used to daisy-chain additional devices.

This port does not accept PoE input and does not pass power out.

This port cannot be used as the secondary connection on redundant networks – network ports 1 and 2 always function as a 2-port switch.

3. Secondary Power Input*

DC input with locking connector for use where Power-over-Ethernet (PoE) is not available. Can be used in conjunction with PoE.

When both power supplies are available PoE will be the default supply.

4. Line Out XLRs

Two balanced output channels which can, for example, be used for monitor loudspeakers. (Passive speakers will require external amplification). Software selectable +18 / +24 dBu maximum output level.

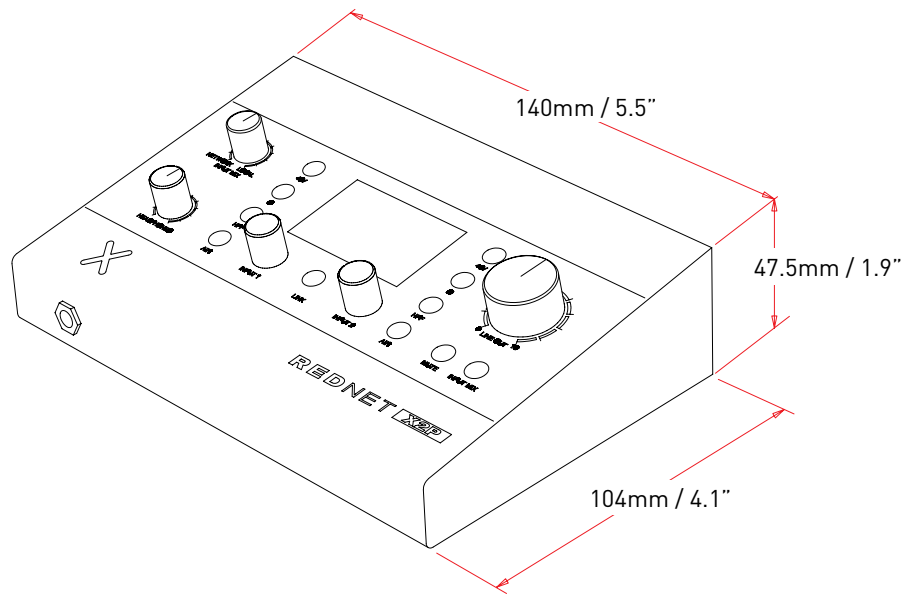
5. Local Analogue inputs

Combo connectors for Local Mic/Line or Instrument inputs. Balanced XLR for Mic/Line sources, mono TS jack for instrument input; automatic detection of input type. +48V phantom power will be disabled when a 1/4" TS jack is inserted.

 *For health and safety reasons, do not power-up RedNet X2P while monitoring through headphones.

Refer to the Appendix on page 16 for the connector pinouts.

Physical Characteristics



RedNet X2P dimensions are illustrated in the diagram above.

RedNet X2P weighs 1.04 kg and is equipped with rubber feet for desktop mounting. The baseplate includes a female 3/8" BSW thread so the unit can be mounted on a microphone stand.

A Kensington Lock slot is located in the left side panel allowing a user to secure the device.

RedNet X2P generates little significant heat and is cooled by natural convection.

Note. The maximum operating environmental temperature is 45°C / 113°F.

Power Requirements

RedNet X2P can be powered from two separate sources: Power-over-Ethernet (PoE) or DC input via external mains supply.

Standard PoE requirements are: 37.0–57.0 V @ 1–2 A (approx.) – as supplied by many suitably equipped switches and external PoE injectors. Note that PoE can only be accepted at Network Port 1 and that power is not transmitted as an output on Network Port 2.

PoE injectors used should be Gigabit capable.

To use the 12V DC input, connect the external plugtop PSU supplied to an adjacent mains outlet.

Only use the DC PSU supplied with RedNet X2P. Use of other external supplies may affect performance or could damage the unit.

When both PoE and external DC supplies are connected, PoE becomes the default supply.

The power consumption of the RedNet X2P is: DC supply: 13.32 W, PoE: 11.0 W

Please note that there are no fuses in RedNet X2P, or other user-replaceable components of any type. Please refer all servicing issues to the Customer Support Team (see "Customer Support and Unit Servicing" on page 21).

REDNET X2P OPERATION

First Use and Firmware Updates

Your RedNet X2P may require a firmware update* when it is first installed and switched on. Firmware updates are initiated and handled automatically by the RedNet Control application.

**It is important that the firmware update procedure is not interrupted – either by switching off power to the RedNet X2P or the computer on which RedNet Control is running, or by disconnecting either from the network.*

From time to time Focusrite will release RedNet firmware updates within new versions of RedNet Control. We recommend keeping all RedNet units up to date with the latest firmware version supplied with each new version of RedNet Control.

The RedNet Control application will automatically inform the user if there is a firmware update available.

Digital Clocking

Each RedNet X2P will automatically lock to a valid Network Master via its Dante connection. Alternatively, if a Network Master is not already present, the unit can be chosen as the Network Master by the user.

Pull Up and Pull Down Operation

RedNet X2P is able to operate at a specified pull up or pull down percentage as selected in the Dante Controller application (Dante Ultimo capability):

- 44.1 kHz
- 48 kHz
- 88.2 kHz
- 96 kHz
- Pull Up/Down:
 - -4%
 - -0.1%
 - 0%
 - +0.1%
 - +4.1667%

Front Panel Lockout

The front panel controls can be locked to prevent accidental modification; three lockout modes are available: 'Preamp Control', 'Line Out Control' and both modes together. Note that when Lockout is active, only the front panel controls are disabled – control changes over the network will still be possible.

Lockout can be activated and deactivated from the Tools menu, or by pressing the front panel LINK switch for more than 1.5 seconds. The lockout mode is selected using the Tools menu. See page 14.

Preamp Control – The following controls will be disabled:

- Input Level encoders
- +48V
- Phase
- HPF
- AIR
- Link – *This does not disable Front Panel Lockout (>1.5s)*

Line Out Control – The following controls will be disabled:

- Line Output Level pot
- Network/Local Mix pot – *Headphone levels can still be adjusted*
- Mute – *This does not disable Reverse ID (>1.5s)*
- Input Mix

Notes:

- *If level pots are moved whilst Line Out Control Lockout is active, the pot will need to be returned to its pre-lockout position before new level changes will take effect. (This prevents sudden jumps in output level.)*
- *Front Panel Lockout will continue after a reboot and/or power-cycle.*
- *If a user tries to control a locked switch on the Front Panel, the "Locked" icon on the LCD will flash 5 times.*
- *If a user tries to control a locked pot on the Front Panel, the "Locked" icon on the LCD will flash whilst the control is adjusted and for approximately 2.5s afterwards.*

OTHER REDNET SYSTEM COMPONENTS

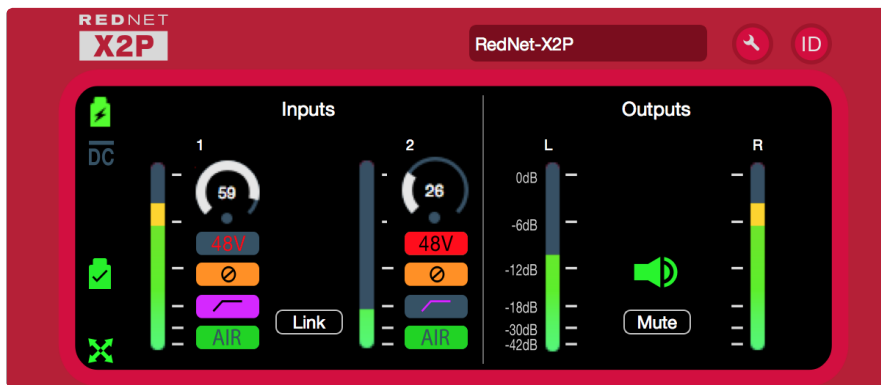
The RedNet hardware range includes various types of I/O interface and the PCIe/ PCIeR digital audio interface cards which are installed in the system's host computer or in a chassis. All the I/O units can be considered as "Break-Out" (and/or "Break-In") boxes to/from the network, and all are built in mains-powered, 19" rackmount housings, unless otherwise stated. There are also three software items, RedNet Control (see below), Dante Controller and Dante Virtual Soundcard.

REDNET CONTROL 2









RedNet Control 2 is Focusrite's customisable software application for controlling and configuring RedNet and Red-range interfaces. A graphical representation of each device shows its control levels and function settings, signal meters, as well as critical status indicators for power supplies, clock status and the primary/secondary network connections.

A maximum of four RedNet Control sessions can run a single RedNet X2P at any one time. The plugin will indicate if the maximum number of available sessions has been reached.


The RedNet Control GUI for the RedNet X2P unit is shown below.



The image shows the input preamp channels' gain and function settings, level meters for inputs and outputs plus the power and network status indicators. Please refer to the section 'Device Control' in the RedNet Control Operator's Manual for full details of operation and setup using the software.

-   PoE power input – Illuminates if DC power is being received via the Ethernet cable.
-   DC supply power input – Illuminates if power is being received from the external DC supply.
-   Locked – Unit is successfully locked to the network (changes to the red cross if not locked).
-   Network Master – Illuminates if the unit is the network master.

ID (Identification)


Clicking on the ID icon  will identify the physical device being controlled by flashing its front panel "+48V", "HPF", "Phase", "Air" and "Link" switch LEDs for a period of 10s.

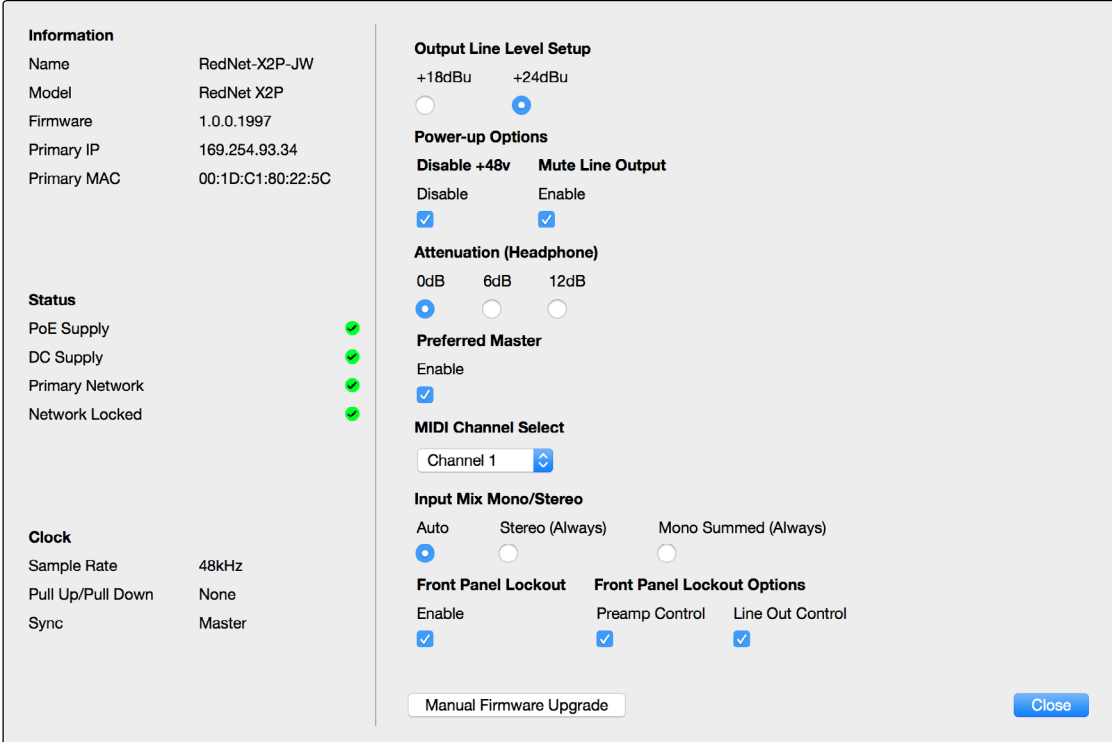
The ID state can be cancelled by pressing any of the front panel switches during the 10 second period. Once cancelled, the switches then return to their normal function.

Reverse ID

A Reverse ID request from a RedNet X2P unit will flash the black background in the device GUI.

Tools Menu

Clicking on the Tools icon  will bring up the System Settings window:



The screenshot shows the System Settings window for a RedNet-X2P-JW device. The window is divided into several sections:

- Information:** Name: RedNet-X2P-JW, Model: RedNet X2P, Firmware: 1.0.0.1997, Primary IP: 169.254.93.34, Primary MAC: 00:1D:C1:80:22:5C.
- Status:** PoE Supply, DC Supply, Primary Network, and Network Locked, all indicated by green checkmarks.
- Clock:** Sample Rate: 48kHz, Pull Up/Pull Down: None, Sync: Master.
- Output Line Level Setup:** Radio buttons for +18dBu and +24dBu (selected).
- Power-up Options:** Checkboxes for Disable +48v (checked) and Mute Line Output (checked).
- Attenuation (Headphone):** Radio buttons for 0dB, 6dB, and 12dB (selected).
- Preferred Master:** Enable checkbox (checked).
- MIDI Channel Select:** Dropdown menu set to Channel 1.
- Input Mix Mono/Stereo:** Radio buttons for Auto (selected), Stereo (Always), and Mono Summed (Always).
- Front Panel Lockout:** Enable checkbox (checked).
- Front Panel Lockout Options:** Checkboxes for Preamp Control (checked) and Line Out Control (checked).

At the bottom, there is a 'Manual Firmware Upgrade' button and a 'Close' button.

Output Line Level Setup – Sets the analogue Line output level at 0dBFS:

- +18dBu
- +24dBu (*factory default setting*)

Power-up Options – On/Off state (*factory default is Enabled*).

- **Mute Line Output** – On/Off state (*factory default is Enabled*).
- **Disable +48V** – On/Off state. When enabled, Local input 1 and 2's phantom power settings will be restored to their previous state on power-up.

Attenuation (Headphone) – The headphone output volume can be attenuated to match different headphone sensitivities. Available settings are:

- 0dB
- 6dB
- 12dB (*factory default setting*)

Preferred Master – On/Off state.

MIDI Channel Select – Select the MIDI channel, "Off", "1" – "16", to which the unit will respond.

Tools Menu ... Continued

Information		Output Line Level Setup		
Name	RedNet-X2P-JW	+18dBu	+24dBu	
Model	RedNet X2P	<input type="radio"/>	<input checked="" type="radio"/>	
Firmware	1.0.0.1997	Power-up Options		
Primary IP	169.254.93.34	Disable +48v	Mute Line Output	
Primary MAC	00:1D:C1:80:22:5C	Disable	Enable	
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
		Attenuation (Headphone)		
		0dB	6dB	12dB
		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Preferred Master		
		Enable		
		<input checked="" type="checkbox"/>		
		MIDI Channel Select		
		Channel 1		
		<input type="text" value="Channel 1"/>		
		Input Mix Mono/Stereo		
		Auto	Stereo (Always)	Mono Summed (Always)
		<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		Front Panel Lockout		Front Panel Lockout Options
		Enable	Preamp Control	Line Out Control
		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Status				
PoE Supply	<input checked="" type="checkbox"/>			
DC Supply	<input checked="" type="checkbox"/>			
Primary Network	<input checked="" type="checkbox"/>			
Network Locked	<input checked="" type="checkbox"/>			
Clock				
Sample Rate	48kHz			
Pull Up/Pull Down	None			
Sync	Master			
		<input type="button" value="Manual Firmware Upgrade"/>		<input type="button" value="Close"/>

Notes:

- The default is "Off"
- 16 channels are available, allowing a maximum of 16 independent RedNet X2P control paths
- Two devices should not be set to the same MIDI channel
- MIDI channel selection is saved with the computer, not the device. Therefore, when controlling the same unit from a different computer, the MIDI channel allocation may no longer be the same

For more information, please download the MIDI Control User Guide from www.focusrite.com

Input Mix Mono/Stereo – Assigns the operating mode for the Local preamp inputs:

- 'Auto' – The mode is determined by the Link switch setting:
 - Link switch, On: Stereo
 - Link switch, Off: Mono-Summed
- Stereo (Always)
- Mono Summed (Always)

Front Panel Lockout – On/Off state.

Front Panel Lockout Options – Selects which controls are affected when Lockout is active:

- Preamp Control
- Line Out Control

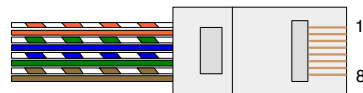
APPENDICES

1 – Connector Pinouts

Ethernet Connectors (Dante)

Connector type: RJ-45 (EtherCON) receptacle

Applies to: NETWORK 1 & 2



Pin	Cat 6 Core	PoE A	PoE B
1	White + Orange	DC+	
2	Orange	DC+	
3	White + Green	DC-	
4	Blue		DC+
5	White + Blue		DC+
6	Green	DC-	
7	White + Brown		DC-
8	Brown		DC-

PoE information only applicable to Network port 1

XLR Connectors

Connector type: XLR(M)-3 receptacle

Applies to: Line Output 1 & 2

Pin	Signal
1	Screen
2	Hot (+ve)
3	Cold (-ve)

Connector type: XLR Combo

XLR Applies to: Mic/Line Input 1 & 2

1/4" Jack Applies to: Instrument Input 1 & 2

Pin	Signal
1	Screen
2	Hot (+ve)
3	Cold (-ve)
T (Tip)	Instrument In
S (Sleeve)	Ground

1/4" Jack Connector

Connector type: Stereo receptacle

Applies to: Headphone Output

Pin	Signal
Tip	Right
Ring	Left
Sleeve	Ground

Appendices

2 – Air information

Air is the name we give to the sonic signature of the classic transformer ISA Preamp. Our customers first coined this name as a simple description of the effect the ISA preamp added to their sound recordings. The three most significant attributes of the transformer design that create the “Air” effect are:

- Microphone interaction, created by the unique input impedance of the transformer coupling with the microphone output impedance.
- Clarity, created by the low distortion and high linearity of the transformer and preamp design.
- Frequency response tilt created by the transformer resonance resulting in an emphasis in the higher frequency content of the sound.

Engaging the Air switches the impedance of the preamp, and enables the “transformer resonance effect”, giving your microphone recordings the air and clarity of an ISA transformer-based mic pre recording.

PERFORMANCE AND SPECIFICATIONS

Microphone / Line Inputs	
<i> measurements taken at maximum gain, unless otherwise stated, $R_s = 150\Omega$</i>	
Gain Range	0 to 68 dB in 1 dB steps
Maximum Input Level	>+24 dBu, minimum gain
Input Impedance	6.2 k Ω , electronically balanced Air Mode: 2.2 k Ω
Signal-to-Noise Ratio	-120 dB 'A'-Weighted (typical), minimum gain
Frequency Response	20 Hz – 35 kHz ± 0.1 dB Air Mode: 2dB boost at 10 kHz and -2 dB at 20 kHz (ref. 1 kHz)
THD + N	-103 dB (0.0007%) @ -1 dBFS
HPF	-3 dB @ 80 Hz, 12 dB/octave
EIN	<-130 dBu 'A'-Weighted (typical)

Instrument Inputs	
<i> measurements taken at maximum gain, unless otherwise stated, $R_s = 600\Omega$</i>	
Gain Range	0 to 68 dB in 1 dB steps
Maximum Input Level	>+15 dBu
Input Impedance	2 M Ω
Signal-to-Noise Ratio	-118 dB 'A'-Weighted
Frequency Response	20 Hz – 35 kHz ± 0.1 dB Air Mode: 2dB boost at 10 kHz and -2 dB at 20 kHz (ref. 1 kHz)
THD + N	<-100dB (0.001%) @ -1 dBFS, 16 dB gain
HPF	-3 dB @ 80 Hz, 12 dB/octave

Line Level Outputs	
<i>All measurements taken at +24dBu reference level, maximum gain, $R_L = 100k\Omega$</i>	
0 dBFS Reference Level	+18 or +24 dBu, switchable
Frequency Response	20 Hz – 35 kHz ± 0.1 dB
THD + N	<-104 dB (0.0006%) at -1 dBFS
Dynamic Range	120 dB 'A'-weighted (typical), 20 Hz - 20 kHz

Performance and Specifications ... Continued

Headphone Output	
<i>All measurements taken at +19dBm reference level, maximum gain, $R_L = 600\Omega$</i>	
0 dBFS Reference Level	>+19 dBm
Frequency Response	20 Hz – 20 kHz ± 0.2 dB
THD + N	<-103 dB (0.0007%) at -1 dBFS
Dynamic Range	117 dB 'A'-weighted (typical), 20 Hz - 20 kHz
Output Impedance	5 Ω
Headphone Impedance	32 Ω – 600 Ω

Digital Performance	
Supported sample rates	44.1 / 48 / 88.2 / 96 kHz [-4% / -0.1% / +0.1% / +4.167%] at 24 bit
Clock Sources	Internal or from Dante Network Master

Connectivity	
Front Panel	
Headphone	1/4" stereo Jack socket
Rear Panel	
Mic/Line/Instrument Input	2 x Locking Combo XLR
Line Output	2 x XLR-3 male
Network	2 x etherCON, also compatible with standard RJ45 connectors
PSU (PoE and DC)	1 x PoE (Network Port 1) Input and 1 x DC 12V Locking Barrel Input Connector

Performance and Specifications ... Continued

Top Panel Indicators / Controls	
LCD Screen	Combined display for Status and Metering
Encoders	2 x Encoders: Local Inputs 1 & 2
Pots	3 x Pots: Headphone Output, Line Output, Network/Local Mix
Switches	11 x Switches with LEDs: 2 x 48V, 2 x Ø, 2 x HPF, 2 x "AIR", Link (combines Input encoder function), Mute (Mutes Line Out), Input Mix (sends Mix signal to the Line Outputs)

Dimensions	
Height (<i>Chassis Only</i>)	47.5mm / 1.87"
Width	140mm / 5.51"
Depth (<i>Chassis Only</i>)	104mm / 4.09"

Weight	
Weight	1.04 kg

Power	
Power over Ethernet (PoE)	Complies with IEEE 802.3af class 0 Power-over-Ethernet standard <i>PoE A or PoE B compatible.</i>
DC Power Supply	1 x 12 V 1.2 A DC power supply
Consumption	PoE: 11 W; DC: 13.32 W when using supplied DC PSU

Environmental	
Operating Temperature	45°C / 113°F Maximum ambient operating temperature

Focusrite RedNet Warranty and Service

All Focusrite products are built to the highest standards and should provide reliable performance for many years, subject to reasonable care, use, transportation and storage.

Very many of the products returned under warranty are found not to exhibit any fault at all. To avoid unnecessary inconvenience to you in terms of returning the product please contact Focusrite support.

In the event of a Manufacturing Defect becoming evident in a product within 12 months from the date of the original purchase Focusrite will ensure that the product is repaired or replaced free of charge.

A Manufacturing Defect is defined as a defect in the performance of the product as described and published by Focusrite. A Manufacturing Defect does not include damage caused by post-purchase transportation, storage or careless handling, nor damage caused by misuse.

Whilst this warranty is provided by Focusrite the warranty obligations are fulfilled by the distributor responsible for the country in which you purchased the product.

In the event that you need to contact the distributor regarding a warranty issue, or an out-of-warranty chargeable repair, please visit: www.focusrite.com/distributors

The distributor will then advise you of the appropriate procedure for resolving the warranty issue. In every case it will be necessary to provide a copy of the original invoice or store receipt to the distributor. In the event that you are unable to provide proof of purchase directly then you should contact the reseller from whom you purchased the product and attempt to obtain proof of purchase from them.

Please do note that if you purchase a Focusrite product outside your country of residence or business you will not be entitled to ask your local Focusrite distributor to honour this limited warranty, although you may request an out-of-warranty chargeable repair.

This limited warranty is offered solely to products purchased from an Authorised Focusrite Reseller (defined as a reseller which has purchased the product directly from Focusrite Audio Engineering Limited in the UK, or one of its Authorised Distributors outside the UK). This Warranty is in addition to your statutory rights in the country of purchase.

Registering Your Product

For access to Dante Virtual Soundcard, please register your product at: www.focusrite.com/register

Customer Support and Unit Servicing

You can contact our dedicated RedNet Customer Support team free of charge:

Email: focusriteprosupport@focusrite.com

Phone (UK): +44 (0)1494 836 384

Phone (USA): +1 (310) 450 8494

Troubleshooting

If you are experiencing problems with your RedNet X2P, we recommend that in the first instance, you visit our Support Answerbase at: <https://pro.focusrite.com/technical-support>