



88M



Dual Mic Preamp and USB Audio Interface

User Manual

1.0

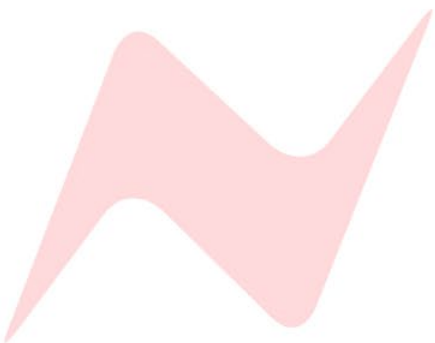
Health & Safety Notice

**FOR YOUR OWN SAFETY AND FOR THE PROTECTION OF OTHERS
PLEASE OBSERVE THE FOLLOWING HEALTH AND SAFETY INSTRUCTIONS**



- READ THESE INSTRUCTIONS AND KEEP THEM HANDY
- HEED ALL SAFETY WARNINGS
- DO NOT USE NEAR WATER
- CLEAN ONLY WITH A DRY CLOTH
- DO NOT INSTALL NEAR HEAT SOURCES
- DO NOT BLOCK VENTILATION OPENINGS
- PROTECT THE USB CORD
- USE ONLY ACCESSORIES SPECIFIED BY THE MANUFACTURER
- UNPLUG USB WHEN UNUSED FOR LONG PERIODS OF TIME
- REFER ALL SERVICING TO QUALIFIED PERSONNEL ONLY
- NO USER SERVICEABLE PARTS INSIDE

**FAILURE TO OBSERVE THESE PROCEDURES AND RECOMMENDATIONS
WILL INVALIDATE THE MANUFACTURER'S WARRANTY**



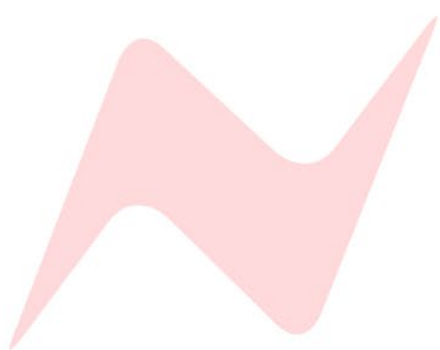
Avertissements de Santé & Sécurité

POUR VOTRE SECURITE ET CELLE DES AUTRES MERCI DE RESPECTER LES INSTRUCTIONS DE SANTE ET SECURITE SUIVANTES



- LISEZ CES INSTRUCTIONS ET GARDEZ-LES À PORTÉE DE MAIN
- TENEZ COMPTE DE TOUS LES AVERTISSEMENTS DE SÉCURITÉ
- NE PAS UTILISER PRÈS D'UNE SOURCE D'EAU
- NETTOYER UNIQUEMENT AVEC UN CHIFFON SEC
- NE PAS INSTALLER PRÈS D'UNE SOURCE DE CHALEUR
- NE PAS BLOQUER LES BOUCHES D'AÉRATION
- PROTÉGER LE CORDON USB
- N'UTILISER QUE LES ACCESSOIRES SPÉCIFIÉS PAR LE FABRICANT
- DÉBRANCHER PENDANT DE LONGUES PÉRIODES D'INACTIVITÉ
- CONFIER TOUTES LES OPÉRATIONS DE MAINTENANCE À DU PERSONNEL QUALIFIÉ UNIQUEMENT
- AUCUNE PIÈCE INTERNE N'EST RÉPARABLE PAR L'UTILISATEUR

LE NON-RESPECT DE CES PROCÉDURES ET RECOMMANDATIONS INVALIDERA LA GARANTIE DU FABRICANT



Important Safety Instructions

For your own Safety and for the protection of others, please observe the following safety precautions:

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Protect the USB cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 11) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when 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

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

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Instructions Importantes sur la Sécurité:

Pour votre sécurité et celle des autres merci de respecter les instructions de santé et sécurité suivantes :

- 1) Lisez ces instructions.
- 2) Gardez ces instructions.
- 3) Tenez compte de tous les avertissements.
- 4) Suivez toutes les instructions.
- 5) **ATTENTION:** afin de réduire les risques d'incendie ou de choc électrique, n'exposez pas cet appareil à la pluie ou à l'humidité
- 6) Nettoyez uniquement avec un chiffon sec
- 7) Ne pas bloquer les bouches d'aération
- 8) Ne pas installer à proximité d'une source de chaleur telle qu'un radiateur, une bouche d'air chaud, des plaques de cuisson (ou cuisinière), ou n'importe quel autre appareil producteur de chaleur (y compris un amplificateur)
- 9) Protégez le cordon USB d'alimentation afin d'éviter les piétinements et pincements, et plus particulièrement à proximité des prises de courant ou tout autre élément de branchement, ainsi qu'au point de sortie de l'appareil)
- 10) Débranchez cet appareil pendant les orages ou de longues périodes d'inactivité.
- 11) Confiez toutes les opérations de maintenance à un technicien qualifié. Un entretien est nécessaire lorsque l'appareil a été endommagé de quelque manière que ce soit, comme par exemple si le cordon d'alimentation ou la fiche sont endommagés, du liquide a été renversé ou des objets sont tombés dans l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas correctement ou a subi une chute de hauteur.

ATTENTION:

AFIN DE RÉDUIRE LES RISQUES D'INCENDIE OU DE CHOC ÉLECTRIQUE, N'EXPOSEZ PAS CET APPAREIL À LA PLUIE OU À L'HUMIDITÉ.

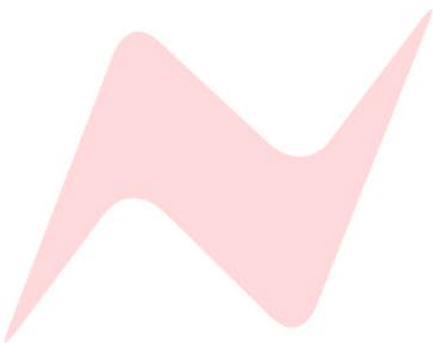
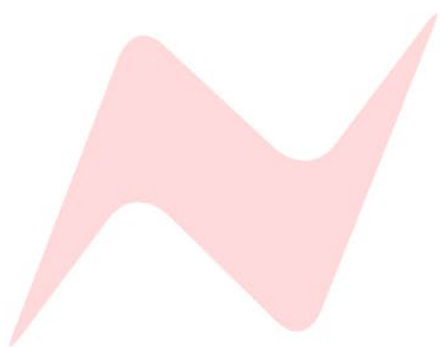


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Legendary Studio Technology

Neve has been at the forefront of studio technology for 60 years, providing ultimate sonic solutions for studios worldwide, creating ground-breaking technology and providing artists and producers with the tools required to make hit records.

Premier Audio Lineage

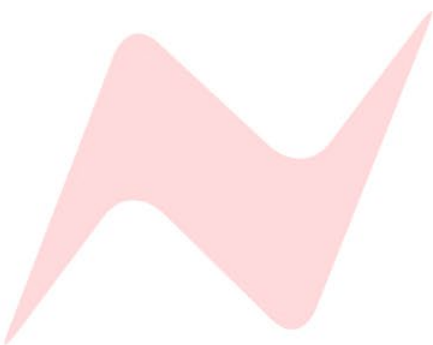
One prime example of this is the world-leading 88RS console, housed in the world's premier studios – Abbey Road, Air, Capitol, and Skywalker Sound, to name just a few. The phenomenal 88RS sound quality can be heard on hit records, blockbuster film scores, and top 10 video game soundtracks.

Neve Transformer Technology

Neve transformers have become the stuff of legend over the past six decades, and this British Iron is the glue that transforms a good recording into a great one capable of breaking into the charts. Subtle yet highly musical harmonic saturation, supreme clarity, and analogue 'warmth' are characteristics of the 88R console transformer found inside the 88M Audio Interface.

Professional Sound Quality

The 88M is professional sound in its simplest form, giving artists, producers, and engineers the ability to create premium recordings when working from small studios, home environments, or even when recording on the move.



Quick Start Guide

The 88M, delivered in premium packaging, contains the following-

- 88M 2-Channel Audio Interface
- USB A > USB B 3.0 cable (Black)
- USB C > USB B 3.0 cable (Black)
- Quick Start Guide
- Neve Outboard Product Brochure
- Neve Sticker

Physical Computer Connections

The 88M unit is USB-powered and does not require an external PSU or additional cabling to operate. Connect your 88M unit to your computer using the USB cable provided, do not use USB cables longer than 3m as they can cause a drop in power that can affect the performance of your unit. The 88M is USB 2.0 compliant; USB 2 and USB 3 ports can connect to the unit.

Once a Stable connection is made, the USB light will illuminate Blue.

Connecting Via a USB hub

It is best practice to connect the 88M Directly to your computer. If your computer has a spare USB3.0 port, this ensures a stable connection with a continuous power supply. If a USB Hub is required, it is highly recommended to use a high-quality powered USB Hub. Most low-quality self-powered USB Hubs do not provide a stable power supply for high-quality audio production.

Software Quick Start

The following information contains connection & software installation instructions for Mac and PC systems. The 88M complies with the USB Device Class Definition for Audio Devices 2.0 specification.

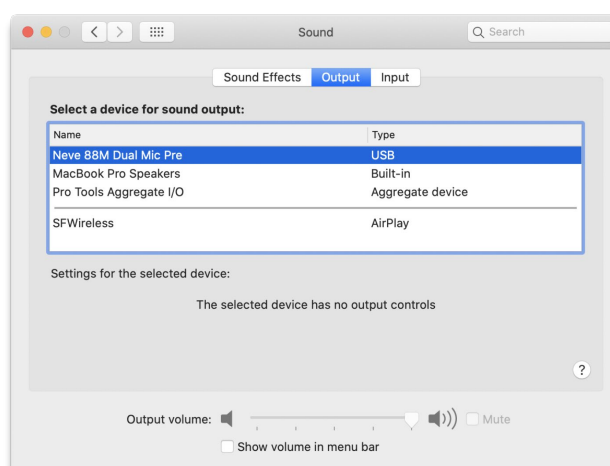
MAC

The 88M will appear as a core audio device as soon as it is physically connected to your Apple Mac computer.

To select the 88M as your Mac Audio Interface, navigate to-

Apple > System Preferences > Sound

Select the Neve 88M Dual Mic Pre as both Input and Output Device



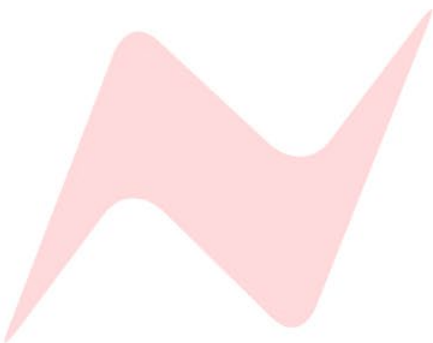
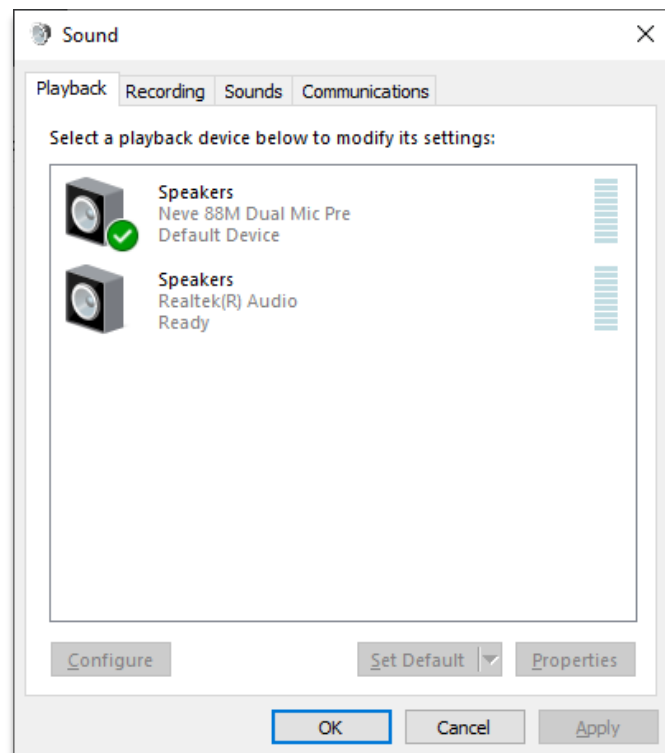
Windows

To operate on a Windows 10 PC, the 88M Driver must be installed.
Download the software from - www.ams-neve.com > 88M > Supporting Documentation

Follow the setup wizard instructions to install the driver.



To select the 88M as your PC Audio Interface, navigate to –
Control panel>Hardware & Sound>Sound>Manage Audio Devices
Select 88M Dual Mic Pre as the Playback and Recording device.



Preamp Controls



The 88M preamplifiers can accept inputs from various musical instruments and microphones. Channel one and channel two inputs are mounted on the front of the unit via combi XLR/TRS input.

Microphone Input

XLR Connection

The 88M microphone inputs benefit from the 88R transformer colouration, adding warmth and subtle harmonic saturation to input signals.

Press the **GAIN** pot until the **MIC** LED illuminates **RED** to select microphone input -

Connect your microphone to the 88M by using an XLR cable and adjust the **GAIN** pot until the desired signal level is reached.

Dynamic microphones such as SM58's and Ribbon microphones do not require phantom power (+48v) to operate. The +48V switch should be off for Dynamic and Ribbon microphones.

Phantom Power (+48v)

Condenser Microphones require Phantom power to operate. Phantom power is activated from the grey +48V switch and will only send to the XLR input.

Before activating Phantom Power, ensure that the channel gain and monitor level is turned fully down to protect your monitoring system from pops.

Line Input

TRS Connection

The 88M line input is fed through the 88R Marinair transformer and can be used to input external preamps and a host of line-level instruments such as synthesisers and drum machines.

Press the **GAIN** pot until the **LINE** LED illuminates **GREEN** to select Line input.

Connect your line-level instruments to the 88M with a ¼" jack cable into the combi TRS port. The 88M accepts balanced (TRS) or unbalanced line inputs.

DI Input

TRS Connection

The 88M DI input is fed through the 88 Marinair transformer to add warmth and weight to instrument signals.

Press the **GAIN** pot until the **DI** LED illuminates **YELLOW** to select DI input.

Connect your instruments to the 88M with a ¼" Jack cable into the combi TRS port. The 88M accepts balanced (TRS) or unbalanced direct inputs.

Monitor Controls



MON Level

The 88M Monitor level is controlled from the red knob controller on the front of the unit. This level controller pot is also found on the Neve 88RS console and provides an accurate level controller that tracks the stereo image precisely through all levels.

The Monitor Level pot has a centre-detent which is set at -12dBu from the maximum output level. This can be used to calibrate studio monitors to an optimum listening level.

HP Level

Just above the Monitor level pot is the headphone level controller. This pot sets the level for the stereo headphone TRS output on the front of the unit. The headphone pot is push-function. Pressing this pot toggles through the four monitoring options which are reflected in the **MON/OP** loudspeaker outputs and the headphone outputs.

The HP Level pot has a centre-detent which is set at -12dBu from the maximum output level.



Stereo Direct Monitoring (DIR)

This option is ideal for stereo recording situations such as piano or acoustic guitar.

DIR feeds the direct signal from both preamps into the monitor outputs. This monitor feed is post-insert so that any analogue gear used in the insert loop, is also included in the monitoring.

To select stereo direct output monitoring, press the **HP Level** pot until the **DIR** LED illuminates **RED**.

Since DIR is stereo, preamp channel 1 will appear only in the left headphone and monitor output only, while preamp 2 will appear in the right headphone and monitor output only.



Stereo Mix Monitoring (MIX)

This option is ideal for stereo overdubbing, such as recording a piano or acoustic guitar live along with a backing track played from the DAW.

MIX feeds the direct signal from both preamps into the monitor outputs and the stereo DAW return signal. This monitor feed is post-insert so that any analogue gear used in the insert loop is also included in the monitoring.

To select stereo mix output monitoring, press the **HP Level** pot until the **MIX** LED illuminates **GREEN**.

Since MIX is stereo, preamp channel 1 will appear in the left headphone and monitor output only, while preamp 2 will appear in the right headphone and monitor output only. The DAW Return will be stereo.



Stereo DAW Monitoring (DAW)

This option is ideal for mixing and for monitoring DAW/Computer audio.

DAW feeds only the stereo DAW signal into the monitor outputs and headphone outputs.

To select DAW output monitoring, press the **HP Level** pot until the **DAW** LED illuminates **YELLOW**.



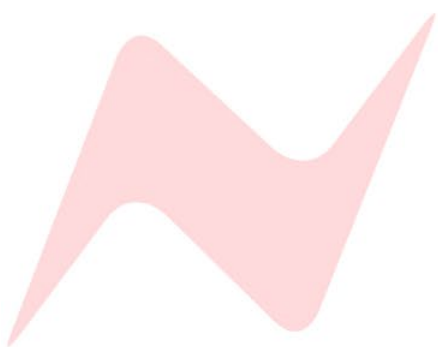
Mono Mix Monitoring (MONO MIX)

This option is ideal for mono recording/overdubbing situations such as solo vocals or DI instruments.

MONO MIX feeds the direct signal of both channel 1 & 2 as a mono signal into both left and right headphones and monitor outputs. This signal is blended with the stereo DAW signal so that when overdubbing, the DAW track retains its stereo image.

To select mono mix output monitoring, press the **HP Level** pot until the **MONO MIX** LED illuminates **BLUE**.

Since **MONO MIX** is mono, preamp channels 1 & 2 will appear only in the left and right headphone and monitor outputs while preamp 2 will appear in the right headphone and monitor output only. The DAW Return will be stereo.



Rear Panel



Mon O/P

The two TRS outputs labelled **LEFT & RIGHT** are used to connect to your studio loudspeakers or speaker amplification system. The stereo main monitor output is fed into your speakers post monitor level control at a maximum of +18dBu. The monitor source is selected by pushing the HP Level pot and toggles through **DIR/MIX/DAW/MONO MIX**.

CH1/CH2 Inserts

The four TRS outputs labelled **CH 1/CH 2 SEND/RET** are used to connect to additional analogue hardware units into the 88M preamp signal chain. Each insert circuit is balanced at +4dBu, providing an ideal connection to professional equipment.

To create an insert loop

- Connect the **SEND** TRS to the input of external analogue equipment.
- Connect the output of the external analogue equipment back into the **RET** TRS connection.

Once connected, the complete audio signal chain

- Preamp source (Microphone, Line, Instrument)
- Preamp gain
- Preamp output
- Insert send
- External analogue equipment
- Insert return
- Analogue to digital converter
- DAW input

K LOCK

This provides a connection port to secure the unit to a desktop.



The USB 3.0 B-type port is used along with the cable provided to connect to your computer and provides digital audio and power transmission.



ADAT



The 88M features one optical output ports and one optical input port. These two optical connections are used to connect the 88M via TOSLINK cables to another ADAT enabled audio interface such as the Neve 1073OPX. This system allows you to expand the 88M's recording capabilities by adding eight channels of inputs, such as additional preamps, or further line level inputs. The ADAT output also provides eight additional digital outputs which can be used to expand the monitor outputs of the 88M as cue sends, or for surround monitoring for example.

ADAT Output



The **ADAT OUT** port is used to feed signals from the 88M into an external ADAT enabled device.

At lower sample rates (**44.1kHz, 48kHz**) the optical outputs can transmit eight channels of digital audio through a single optical cable.

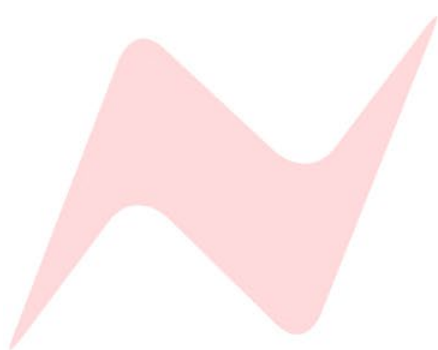
At higher sample rates (**88.2kHz, 96kHz**) four channels of digital audio are transmitted.

- ADAT 1, 2, 3 & 4 are available
- ADAT 5, 6, 7, & 8 are deactivated

At the highest sample rates available (**176.4kHz, 192kHz**) two channels of digital audio are transmitted.

- ADAT 1 & 2 are available
- ADAT 3, 4, 5, 6, 7, & 8 are deactivated

Output	Available Outputs 44.1/48kHz	Available Outputs 88.2/96kHz	Available Outputs 176.4/192kHz
1	88M Monitor 1	88M Monitor 1	88M Monitor 1
2	88M Monitor 2	88M Monitor 2	88M Monitor 2
3	ADAT 1	ADAT 1	ADAT 1
4	ADAT 2	ADAT 2	ADAT 2
5	ADAT 3	ADAT 3	
6	ADAT 4	ADAT 4	
7	ADAT 5		
8	ADAT 6		
9	ADAT 7		
10	ADAT 8		





ADAT Input

The **ADAT IN** port is used to feed signals from an external ADAT enabled equipment through the 88M audio interface.

At lower sample rates (**44.1kHz, 48kHz**) the optical inputs can receive eight channels of digital audio through a single optical cable.

At higher sample rates (**88.2kHz, 96kHz**) four channels of digital audio are received.

- ADAT 1, 2, 3 & 4 are available
- ADAT 5, 6, 7, & 8 are deactivated

At the highest sample rates available (**176.4kHz, 192kHz**) two channels of digital audio are received.

- ADAT 1 & 2 are available
- ADAT 3, 4, 5, 6, 7 & 8 are deactivated

Input	Available Inputs 44.1/48kHz	Available Inputs 88.2/96kHz	Available Inputs 176.4/192kHz
1	88M Mic Pre 1	88M Mic Pre 1	88M Mic Pre 1
2	88M Mic Pre 2	88M Mic Pre 2	88M Mic Pre 2
3	ADAT 1	ADAT 1	ADAT 1
4	ADAT 2	ADAT 2	ADAT 2
5	ADAT 3	ADAT 3	
6	ADAT 4	ADAT 4	
7	ADAT 5		
8	ADAT 6		
9	ADAT 7		
10	ADAT 8		

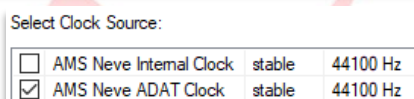
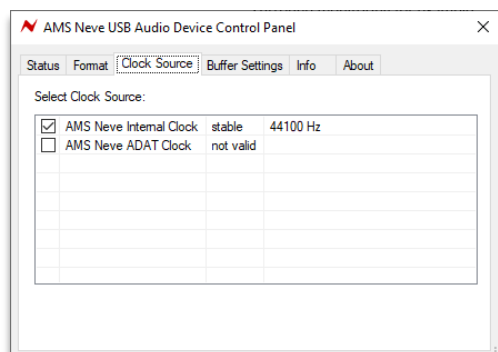
ADAT Digital Synchronization

The 88M must operate as master clock in the system when used as a **Mac** core audio USB device.

For **PC ASIO** systems, the Neve USB audio device driver software allows the 88M to synchronise to an external incoming ADAT clock source.

By default, the 88M will synchronise to its own internal clock.

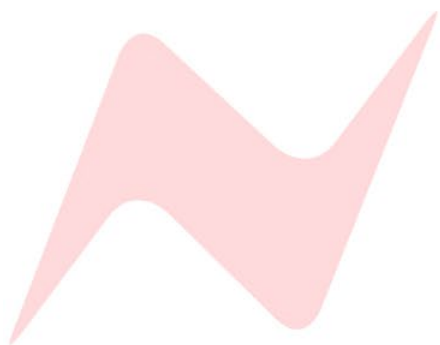
To switch from the internal clock source to external ADAT, open the Neve USB audio device driver software.



If a Valid ADAT connection is made to the **ADAT IN** port, the **AMS Neve ADAT clock** option will be available to select from the Clock source tab. **Tick the box** to be selected with the adjacent tickbox.

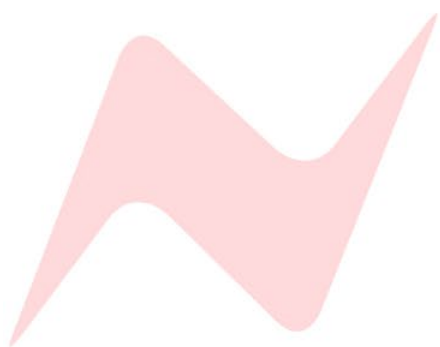
Dimensions & Power Requirements

Height	76mm/3 inches
Width	182mm/7.2 inches
Depth	203mm/8 inches
Weight	1.675Kg/3.7Lbs
Heat Dissipation	<5 watts
Power factor	N/A
Voltage	USB3
Current	<900mA

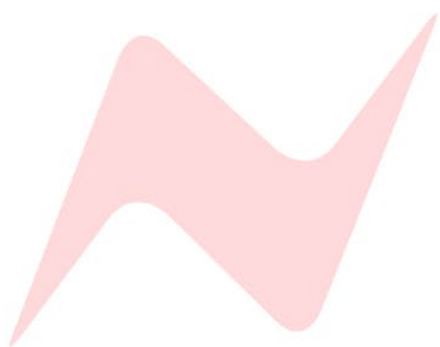


Audio Specification

General Specifications	
Headroom	+18dBu @ 1kHz (<0.5% THD+N)
Distortion (THD+N)	Typically 0.008% @ 1kHz (measured at +18dBu, 10Hz to 80kHz filter)
General Noise	<-85dBu (A-wtg)
Microphone Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.1dB
Frequency Response 10Hz to 35kHz	+/- 0.5dB
Dynamic Range	>110dB
Distortion (THD+N)	<0.004%
Noise EIN	-125dBA
Gain Range	+21dB to +68dB
Maximum Input Level (Max Gain @ 68dB)	-50dBu
Maximum Input Level (Min Gain @ 21dB)	-3dBu
Input Impedance	≈1.5kΩ
Line Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.1dB
Frequency Response 10Hz to 35kHz	+/- 0.5dB
Dynamic Range	>111dB
Distortion (THD+N)	<0.006%
Gain Range	-12dB to +35dB
Maximum Input Level (Max Gain @ 35dB)	-17dBu
Maximum Input Level (Min Gain @ -12dB)	+30dBu
Input Impedance	≈20kΩ



DI Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.1dB
Frequency Response 10Hz to 35kHz	+/- 0.5dB
Dynamic Range	>100dB
Distortion (THD+N)	<0.006%
Gain Range	+13 to +60dB
Maximum Input Level (Max Gain @ 60dB)	-42dBu
Maximum Input Level (Min Gain @ 13dB)	+5dBu
Input Impedance	≈900kΩ
Insert Sends	
Maximum Output Level	18dBu (Balanced TRS)
Dynamic Range	>112dB
Mon Outputs	
Maximum Output Level	18dBu (Balanced TRS)
Dynamic Range	>113dB
Headphone output (150 Ohm load)	
Maximum Output Level	10dBu
Frequency Response	20-20kHz +/- 0.3dB
Distortion (THD +N)	<0.007% @10dBu 1kHz
Noise floor	-96dBA
Metering	
Signal	-43dBFS
Clip	-3dBFS
Crosstalk	
Inter-channel crosstalk	<-60dBr @ 10kHz



AD/DA Specification

Type	Device	S.R	Noise	Dynamic Range	Distortion
USB	Analogue to Digital Conversion	48,000	better than -118dBFS ¹	-	<0.0007% ³
USB	Digital to Analogue Conversion	48,000	<-94dBu ²	>120dB ²	<0.0008% ⁴
USB	Analogue to Digital Conversion	192,000	better than -118dBFS ¹	-	<0.0007% ³
USB	Digital to Analogue Conversion	192,000	<-91dBu ²	>117dB ²	<0.0008% ⁴

¹Noise (A weighted), 22Hz, 22kHz filter ON

²Noise (A weighted), 22Hz, 22kHz filter ON, headroom set to +26dBu

³Distortion, with a 20dBu input signal, headroom set to +26dBu

⁴Distortion, with a -6dBFS input signal

Round Trip Latency (RTL)

Type	Device	S.R.	Bits	Buffer	Measured RTL (ms)	Noise Floor
ASIO	AMS Neve USB Audio Device	44100	32	16	7.0068	-111.3
ASIO	AMS Neve USB Audio Device	44100	32	32	7.8458	-111.5
ASIO	AMS Neve USB Audio Device	44100	32	64	8.82086	-111.3
ASIO	AMS Neve USB Audio Device	44100	32	128	13.1746	-111.4
ASIO	AMS Neve USB Audio Device	44100	32	256	21.9501	-111.4
ASIO	AMS Neve USB Audio Device	44100	32	512	31.2472	-111.3
ASIO	AMS Neve USB Audio Device	44100	32	1024	55.102	-111.3
ASIO	AMS Neve USB Audio Device	44100	32	2048	102.109	-111.4
ASIO	AMS Neve USB Audio Device	48000	32	16	6.91667	-111
ASIO	AMS Neve USB Audio Device	48000	32	32	7.89583	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	64	8.3125	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	128	12.5	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	256	20.4375	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	512	30.1458	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	1024	52.5625	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	2048	98.125	-111.1
ASIO	AMS Neve USB Audio Device	96000	32	16	4.97917	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	32	5.01042	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	64	5.46875	-105.2
ASIO	AMS Neve USB Audio Device	96000	32	128	6.38542	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	256	10.3438	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	512	19.0104	-105.2
ASIO	AMS Neve USB Audio Device	96000	32	1024	28.3438	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	2048	51.0104	-105.1
ASIO	AMS Neve USB Audio Device	96000	32	4096	96.4583	-107.1
ASIO	AMS Neve USB Audio Device	192000	32	32	4.01563	-91.2
ASIO	AMS Neve USB Audio Device	192000	32	64	4.18229	-91.3
ASIO	AMS Neve USB Audio Device	192000	32	128	4.39063	-91.4
ASIO	AMS Neve USB Audio Device	192000	32	256	5.18229	-91.3
ASIO	AMS Neve USB Audio Device	192000	32	512	9.51563	-91.3
ASIO	AMS Neve USB Audio Device	192000	32	1024	18.1771	-91.3
ASIO	AMS Neve USB Audio Device	192000	32	2048	27.5156	-91.3
ASIO	AMS Neve USB Audio Device	192000	32	4096	50.0625	-91.3

Unit Connection Tables

Power and Comms	USB3 Type-B
Preamplifier Microphone Inputs	XLR 3-pin plug female
Preamplifier Line Inputs	¼" TRS Jack sockets
Preamplifier DI inputs	¼" TRS Jack sockets
Headphone Output	¼" TRS Jack socket
Insert Sends	¼" TRS Jack sockets
Insert Returns	¼" TRS Jack sockets
Monitor Outputs	¼" TRS Jack sockets

¼" Inputs and Outputs

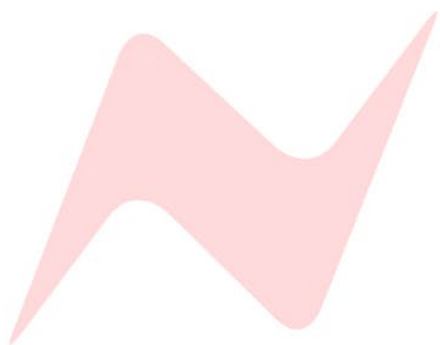
All ¼" Line Inputs & Outputs on the unit have the same wiring, excluding headphones

Tip	Hot
Ring	Cold
Sleeve	Ground

XLR Inputs & Outputs

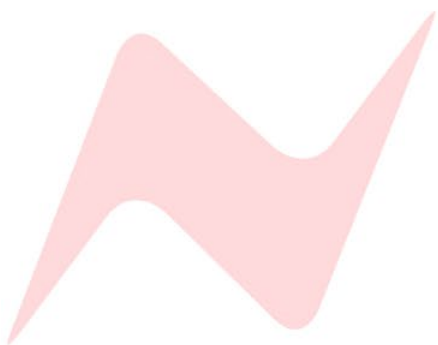
All XLR Inputs & Outputs on the unit have the same wiring

Pin 2	Hot
Pin 3	Cold
Pin 1	Ground



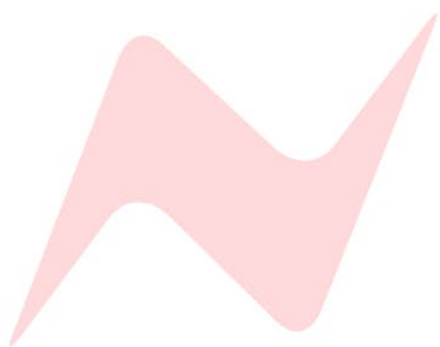
Dimensions & Exigences Alimentation

Hauteur	76mm/3 inches
Largeur	182mm/7.2 inches
Profondeur	203mm/8 inches
Poids	1.675Kg/3.7Lbs
Dissipation de chaleur	<5 watts
Facteur de puissance	N/A
Voltage	USB3
Courant	<900mA

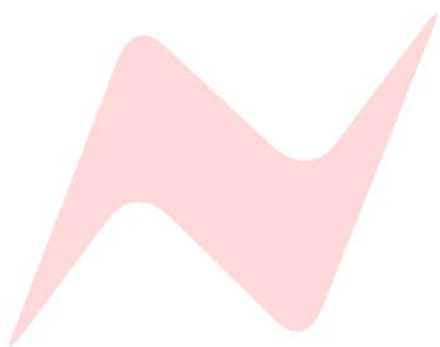


Spécifications Audio

Spécifications Générales	
Marge de sécurité	+18dBu @ 1kHz (<0.5% THD+N)
Distortion (THD+N)	généralement 0.008% @ 1kHz (mesuré à +18dBu, filtre 10Hz à 80kHz)
Bruit général	<-85dBu (A-wtg)
Entrées Microphone	
Réponse de fréquence 20Hz à 20kHz	+/- 0.1dB
Réponse de fréquence 10Hz à 35kHz	+/- 0.5dB
Plage Dynamique	>110dB
Distortion (THD+N)	<0.004%
Bruit EIN	-125dBA
Plage de Gain	+21dB à +68dB
Niveau Maximum Entrée (Gain Max @ 68dB)	-50dBu
Niveau Maximum Entrée (Gain Min @ 21dB)	-3dBu
Impédance d'entrée	≈1.5kΩ
Entrées Ligne	
Réponse de fréquence 20Hz à 20kHz	+/- 0.1dB
Réponse de fréquence 10Hz à 35kHz	+/- 0.5dB
Plage Dynamique	>111dB
Distortion (THD+N)	<0.006%
Plage de Gain	-12dB à +35dB
Niveau Maximum Entrée (Gain Max @ 35dB)	-17dBu
Niveau Maximum Entrée (Gain Min @ -12dB)	+30dBu
Impédance d'entrée	≈20kΩ



Entrées Directes (DI)	
Réponse de fréquence 20Hz à 20kHz	+/- 0.1dB
Réponse de fréquence 10Hz à 35kHz	+/- 0.5dB
Plage Dynamique	>100dB
Distortion (THD+N)	<0.006%
Plage de Gain	+13 à +60dB
Niveau Maximum Entrée (Gain Max @ 60dB)	-42dBu
Niveau Maximum Entrée (Gain Min @ 13dB)	+5dBu
Impédance d'entrée	≈900kΩ
Départs insert	
Niveau Maximum Sortie	18dBu (TRS symétrique)
Plage Dynamique	>112dB
Sorties Moniteur	
Niveau Maximum Sortie	18dBu (TRS symétrique)
Plage Dynamique	>113dB
Sortie Casque (charge 150 Ohm)	
Niveau Maximum Sortie	10dBu
Réponse de fréquence	20-20kHz +/- 0.3dB
Distortion (THD +N)	<0.007% @10dBu 1kHz
Bruit de fond	-96dBA
Mesure	
Signal	-43dBFS
Clip	-3dBFS
Diaphonie	
Diaphonie entre canaux	<-60dBr @ 10kHz



Spécification AD/DA

Type	Dispositif	S.R	Bruit	Plage Dynamique	Distortion
USB	Conversion Analogue vers USB	48,000	Meilleure que -118dBFS ¹	-	<0.0007% ³
USB	Conversion USB vers Analogue	48,000	<-94dBu ²	>120dB ²	<0.0008% ⁴
USB	Conversion Analogue vers USB	192,000	Meilleure que -118dBFS ¹	-	<0.0007% ³
USB	Conversion USB vers Analogue	192,000	<-91dBu ²	>117dB ²	<0.0008% ⁴

¹Bruit (Pondéré A), 22Hz, 22kHz filtre ON

²Bruit (Pondéré A), 22Hz, 22kHz filtre ON, marge de sécurité réglée sur +26dBu

³Distortion, avec un signal d'entrée de 20dBu, marge de sécurité réglée sur +26dBu

⁴Distortion, avec un signal d'entrée de -6dBFS

Latence aller-retour

Type	Dispositif	S.R.	Bits	Tampon	RTL mesuré (ms)	Bruit de Fond
ASIO	AMS Neve Dispositif USB Audio	44100	32	16	7.0068	-111.3
ASIO	AMS Neve Dispositif USB Audio	44100	32	32	7.8458	-111.5
ASIO	AMS Neve Dispositif USB Audio	44100	32	64	8.82086	-111.3
ASIO	AMS Neve Dispositif USB Audio	44100	32	128	13.1746	-111.4
ASIO	AMS Neve Dispositif USB Audio	44100	32	256	21.9501	-111.4
ASIO	AMS Neve Dispositif USB Audio	44100	32	512	31.2472	-111.3
ASIO	AMS Neve Dispositif USB Audio	44100	32	1024	55.102	-111.3
ASIO	AMS Neve Dispositif USB Audio	44100	32	2048	102.109	-111.4
ASIO	AMS Neve Dispositif USB Audio	48000	32	16	6.91667	-111
ASIO	AMS Neve Dispositif USB Audio	48000	32	32	7.89583	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	64	8.3125	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	128	12.5	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	256	20.4375	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	512	30.1458	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	1024	52.5625	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	2048	98.125	-111.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	16	4.97917	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	32	5.01042	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	64	5.46875	-105.2
ASIO	AMS Neve Dispositif USB Audio	96000	32	128	6.38542	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	256	10.3438	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	512	19.0104	-105.2
ASIO	AMS Neve Dispositif USB Audio	96000	32	1024	28.3438	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	2048	51.0104	-105.1
ASIO	AMS Neve Dispositif USB Audio	96000	32	4096	96.4583	-107.1
ASIO	AMS Neve Dispositif USB Audio	192000	32	32	4.01563	-91.2
ASIO	AMS Neve Dispositif USB Audio	192000	32	64	4.18229	-91.3
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ASIO	AMS Neve Dispositif USB Audio	192000	32	1024	18.1771	-91.3
ASIO	AMS Neve Dispositif USB Audio	192000	32	2048	27.5156	-91.3
ASIO	AMS Neve Dispositif USB Audio	192000	32	4096	50.0625	-91.3

Table de connexion de l'unité

Alimentation et Communications	USB3 Type-B
Préamplificateur (Sorties Microphone)	XLR 3-broches (femelle)
Préamplificateur (Entrées Ligne)	¼" (6.35mm) TRS Jack
Préamplificateur (Entrées Directes DI)	¼" (6.35mm) TRS Jack
Sortie Casque	¼" (6.35mm) TRS Jack
Départs Insert	¼" (6.35mm) TRS Jack
Retours Insert	¼" (6.35mm) TRS Jack
Sorties Moniteur	¼" (6.35mm) TRS Jack

¼" Entrées et Sorties

Toutes les entrées & sorties ¼" (6.35mm) de l'unité ont le même câblage, sauf casque

Pointe	Chaud
Bague	Froid
Corps	Masse

XLR Entrées et Sorties

Toutes les entrées & sorties XLR de l'unité ont le même câblage

Point 2	Chaud
Point 3	Froid
Point 1	Masse

