



88M



Dual Mic Preamp and USB Audio Interface

User Manual

1.3

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.

Head Office:
AMS Neve
AMS Technology Park
Billington Road
Burnley
Lancashire
England
BB11 5UB

Phone: +44 (0) 1282 457 011
Fax: +44 (0) 1282 417 282

Email: info@ams-neve.com
Web: www.ams-neve.com

© ® 2005 - 2022 AMS Neve Ltd own the copyright of all information and figures contained in this manual which are not to be copied or reproduced by any means or disclosed in part or whole to any third party without written permission. As part of our policy of continual product improvement, we reserve the right to alter specifications without notice but with due regard to all current legislation.

Disclaimer: The information in this manual has been carefully checked and is believed to be accurate at the time of publication. However, no responsibility is taken by AMS-Neve for inaccuracies, errors or omissions nor any liability assumed for any loss or damage resulting either directly or indirectly from use of the information contained within.

Trademarks: Neve®, 1073® and Marinair® are registered trademarks. AMS Neve Limited pursues a policy of continual improvement therefore all specifications are subject to change without notice. All trademarks are property of their respective owners E & O E ©2020 AMS Neve Ltd.

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.



Table of Contents

Health & Safety notice (English)	2
Health & Safety notice (French).....	3
Important Safety Instructions (English)	4
Important Safety Instructions (French).....	5
88M Introduction	7
Quick Start Guide	8
Preamp Controls	10
Monitor Controls	12
Rear Panel	14
ADAT	15
Dimensions & Power Requirements	18
Audio Specification	19
AD/DA Specification.....	21
Round Trip Latency	21
Unit connection Tables	22
Dimensions & Power Requirements (French).....	23
Audio Specification (French)	24
AD/DA Specification (French)	26
Round Trip Latency (French)	26
Unit connection Tables (French).....	27





Legendary Studio Technology

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

Premier Audio Lineage

The ultimate evolution of the Neve console lineage is the world-leading 88RS. Developed over many years with the help of top studio engineers, the 88RS was the only choice for the world's premier studios – Abbey Road, Air, Capitol, and Skywalker Sound, to name just a few. The phenomenal sound quality of the 88RS console can be heard on countless 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 hue are characteristics of the Marinair specification transformers used inside the 88RS and 88M preamplifiers.

Professional Sound Quality

The 88M is designed and manufactured entirely in the UK by the same skilled engineers who developed the 88RS console. For the first time, artists, producers, and engineers working from small studios, home environments, or even recording on the move have access to professional Neve console sound in its purest form – The 88M.



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. 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 be used for digital audio transfer. However, if using a USB2 hub, a powered USB3 hub must be added to provide sufficient power for the 88M. 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's USB3.0 port, ensuring 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.

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.

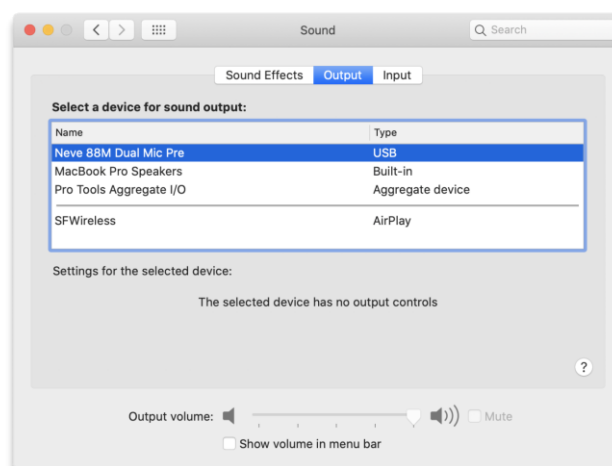
MAC

The 88M will appear as a core audio device once 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



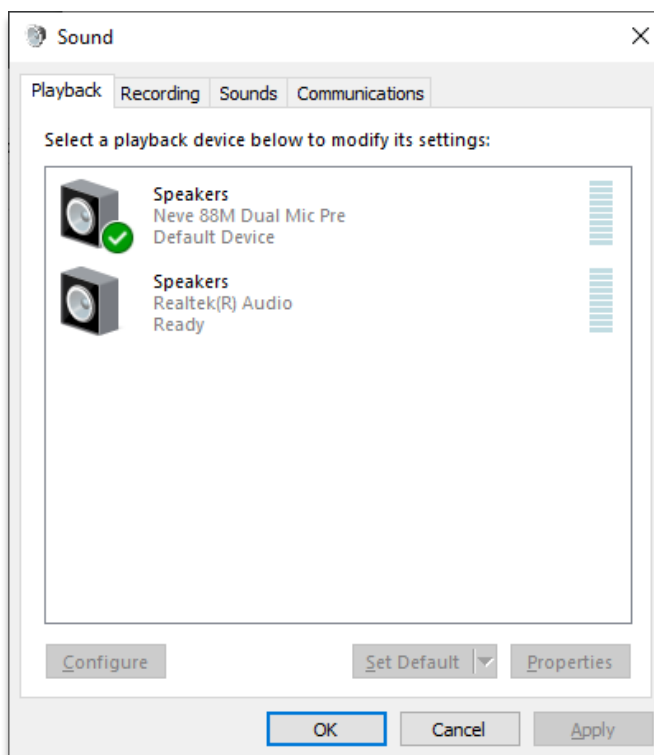
Windows

To operate on a Windows 10 PC, download and install the 88M Driver from - <https://www.ams-neve.com/88m/#MoreInfo> > **Downloads**

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. Both preamp inputs are front-mounted via combi XLR/TRS

Microphone Input (XLR Connection)

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

To configure the 88M MIC input for microphone recording -

- Press the **GAIN** pot until the **MIC LED** illuminates **RED** to select the microphone input
- Connect your microphone to the 88M using an XLR cable into the combi XLR port
- Adjust the **GAIN** pot to set the desired signal level

Phantom Power (+48v)

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

Condenser Microphones require Phantom power. Phantom power is activated from the grey **+48V** switch.

Before activating Phantom Power, ensure that the channel gain and monitor level are turned 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 a host of line-level instruments such as synthesisers and drum machines or the output of external preamps.

To configure the 88M LINE input for line recording -

- Press the **GAIN** pot until the **LINE LED** illuminates **GREEN** to select the 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 TS line inputs
- Adjust the **GAIN** pot to set the desired signal level

DI Input TRS Connection

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

To configure the 88M DI input for instrument recording -

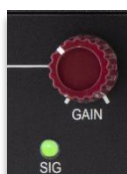
- Press the **GAIN** pot until the **DI LED** illuminates **YELLOW**
- Connect your instruments to the 88M with a ¼" Jack cable into the combi TRS port. The 88M accepts balanced TRS or unbalanced TS direct inputs
- Adjust the **GAIN** pot to set the desired signal level

Signal Metering

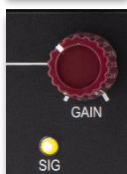
The **SIG LED** indicator uses a traffic light LED system to display incoming preamp audio signals visually. The signal LEDs are fed from the analogue preamp before the ADC but are tuned to dBFS scaling to provide accurate metering and prevent digital clipping from the ADC into the DAW.

The Meters are post-insert return, allowing for accurate metering of the complete analogue signal path before reaching the ADC. This topology allows for precise gain staging of outboard processors such as EQs or compressors.

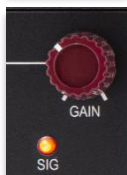
The tri-colour LED will change colour depending on the incoming signal level.



Green – Signal present at **-43dBFS to -5dBFS**



Yellow – Signal 'hot' at **-5dBFS to -3dBFS**



Red – Signal close to clipping at **-3dBFS to 0dBFS**



Monitor Controls



MON Level

The 88M loudspeaker outputs are controlled from the front-mounted red knob. This master level control, used on the Neve 88RS console, provides accurate monitoring attenuation, tracking the stereo image precisely through all levels.

The Monitor Level pot has a centre-detent, set at -12dBu from the maximum output level. This detent is ideal for calibrating studio monitors to your optimal 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 has a push function; pressing toggles through the four monitoring options for the monitor and headphone outputs.

The HP Level pot has a centre-detent set at -6dBu from the maximum output level.



Stereo Direct Monitoring (DIR)

This option is ideal for stereo recording scenarios using two microphones, 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 any analogue gear used in the insert loop is included in the monitoring.

To select stereo direct output monitoring-

- Press the **HP Level** pot until the **DIR** LED illuminates **RED**.

DIR is stereo, preamp 1 output is sent only to the left headphone and monitor output. Preamp 2 output is sent only to the right headphone and monitor output.



Stereo Mix Monitoring (MIX)

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

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

To select stereo mix output monitoring -

- Press the **HP Level** pot until the **MIX** LED illuminates **GREEN**.

MIX is stereo, preamp 1 output is sent only to the left headphone and monitor output. Preamp 2 output is sent only to the right headphone and monitor output. The DAW Return is 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 tracking solo vocals or DI instruments.

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

To select mono mix output monitoring,

- Press the **HP Level** pot until the **MONO MIX** LED illuminates **BLUE**.

MONO MIX uses **mono direct monitoring**, **preamp outputs 1 & 2** are sent **to the left and right headphone and monitor outputs equally**. The **DAW Return** is 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, which 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 will be as follows-

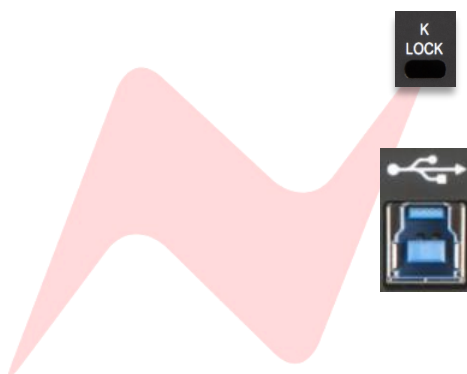
- ↓ Preamp source (Microphone, Line, Instrument)
- ↓ Preamp gain
- ↓ Preamp output
- ↓ Insert send
- ↓ External analogue equipment
- ↓ Insert return
- ↓ Analogue to digital converter
- ↓ DAW input

K LOCK

The K Lock is a connection port to secure the unit to a desktop.



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



ADAT



The 88M features one optical output port 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. 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 additional monitoring.

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 active
- 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 active
- 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
Analogue	1	88M Mon O/P 1	88M Mon O/P 1	88M Mon O/P 1
Analogue	2	88M Mon O/P 2	88M Mon O/P 2	88M Mon O/P 2
Digital	3	ADAT 1	ADAT 1	ADAT 1
Digital	4	ADAT 2	ADAT 2	ADAT 2
Digital	5	ADAT 3	ADAT 3	
Digital	6	ADAT 4	ADAT 4	
Digital	7	ADAT 5		
Digital	8	ADAT 6		
Digital	9	ADAT 7		
Digital	10	ADAT 8		

The table above shows all available outputs from the DAW into the 88M.

- Outputs 1 - 2 from the DAW>USB to the 88M stereo monitor path
- Outputs 3 – 10 from DAW>USB to the ADAT OUT optical connection



ADAT Input



The **ADAT IN** port is used to feed signals from 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 active
- 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 active
- 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
Analogue	1	88M Mic Pre 1	88M Mic Pre 1	88M Mic Pre 1
Analogue	2	88M Mic Pre 2	88M Mic Pre 2	88M Mic Pre 2
Digital	3	ADAT 1	ADAT 1	ADAT 1
Digital	4	ADAT 2	ADAT 2	ADAT 2
Digital	5	ADAT 3	ADAT 3	
Digital	6	ADAT 4	ADAT 4	
Digital	7	ADAT 5		
Digital	8	ADAT 6		
Digital	9	ADAT 7		
Digital	10	ADAT 8		

The table above shows all available inputs from the 88M into the DAW.

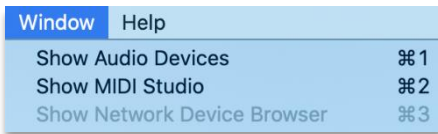
- Inputs 1 - 2 from the analogue 88M preamp into the USB>DAW
- Inputs 3 - 10 from the ADAT IN optical connection to the USB>DAW



ADAT Digital Synchronization Mac

The 88M can operate as master clock or can sync to an incoming external ADAT clock source when used as a **Mac** core audio USB device.

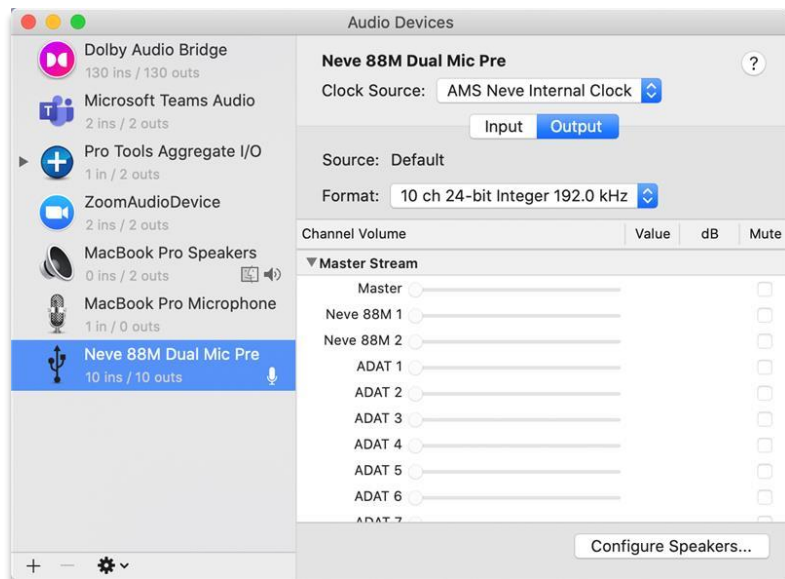
The clock source is selected via the Mac utility **Audio MIDI Setup>Audio Devices**



To select ADAT as the 88M master clock source -

- **Open Audio MIDI Setup**
- **Click 'Window' & 'Show Audio Devices'**

The Audio Devices window shows available audio devices on your system



- **Select Neve 88M Dual Mic Pre**

- **Open Clock Source dropdown menu**

- **Select AMS Neve ADAT Clock**

ADAT Digital Synchronization Windows PC

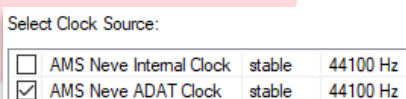
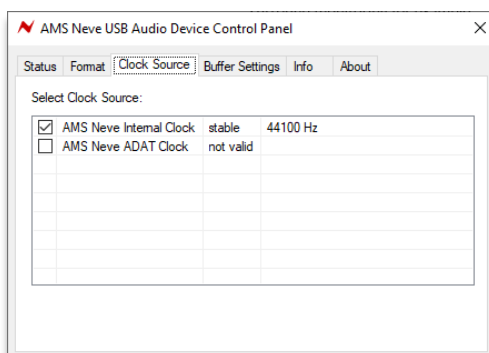
For **PC** ASIO systems, the Neve USB audio device driver software allows the 88M to synchronise to an external incoming ADAT clock source.

First, download and install the 88M ASIO Driver available at 'downloads' <https://www.ams-neve.com/88m/>

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

To switch from the internal clock source to external ADAT -

- **Open the Neve USB audio device driver software.**
- **Tick the AMS Neve ADAT Clock box**



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	<-60dB @ 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
ASIO	AMS Neve Dispositif USB Audio	192000	32	128	4.39063	-91.4
ASIO	AMS Neve Dispositif USB Audio	192000	32	256	5.18229	-91.3
ASIO	AMS Neve Dispositif USB Audio	192000	32	512	9.51563	-91.3
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

