

Neve

1073DPX-D



Dual 1073 Channel Strip and USB/ADAT Audio Interface

User Manual

Issue 1

572-421

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 POWER CORD
- USE ONLY ACCESSORIES SPECIFIED BY THE MANUFACTURER
- UNPLUG POWER CORD 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**



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- NE PAS INSTALLER PRÈS D'UNE SOURCE DE CHALEUR
- NE PAS BLOQUER LES BOUCHES D'AÉRATION
- PROTÉGER LE CORDON D'ALIMENTATION
- N'UTILISER QUE LES ACCESSOIRES SPÉCIFIÉS PAR LE FABRICANT
- DÉBRANCHER LE CORDON D'ALIMENTATION DE LONGUES PÉRIODES D'INACTIVITÉ
- CONFIER TOUTES LES OPÉRATIONS DE MAINTENANCE À DU PERSONNEL QUALIFIÉ UNIQUEMENT
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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 power 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.

WARNING:

WHERE THE MAINS PLUG OR AN APPLIANCE COUPLER IS USED AS THE DISCONNECT DEVICE, THE DISCONNECT DEVICE SHOULD REMAIN READILY OPERABLE.

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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 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.

ATTENTION:

LORSQUE LA FICHE SECTEUR OU UN COUPLEUR D'APPAREIL EST UTILISÉ COMME DISPOSITIF DE DÉCONNEXION, LE DISPOSITIF DE DÉCONNEXION DOIT RESTER FACILEMENT OPÉRATIONNE.



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1073DPX-D Introduction



Legendary Preamps

For over 60 years, Neve preamps have set the benchmark for professional recording. Renowned for their depth, clarity, and musical response, they provide a premium front-end that engineers, artists, and producers trust to capture performances with confidence, allowing creativity to take centre stage.

Analogue Legacy

The Neve 1073® is widely regarded as one of the most iconic microphone preamps ever created, embodying the unmistakable Neve sound. In continuous production since the early 1970s, its discrete class-A topology features transformer-balanced inputs and outputs, inductor-based EQ, and a choke-coupled high-pass filter. Combined with Neve's decades of engineering expertise, these elements work together to deliver the rich, musical character heard at the output.

Modern Enhancements

The 1073DPX-D houses two complete 1073® channel strips within a robust 2U rack-mount chassis. While remaining faithful to the original class-A design, the DPX-D introduces a range of modern features, ensuring seamless integration into contemporary studio workflows without compromising the classic 1073 sound.

Digital Innovation

The 1073DPX-D represents the next evolution of the 1073 lineage, pairing dual 1073 channel strips with an integrated high-performance digital audio interface. With both USB and ADAT connectivity, the unit functions as a versatile hub for recording, mixing, and monitoring across a wide range of studio and production environments.

Custom Workflows

The DPX-D's flexible digital architecture supports multiple workflow configurations. It can be connected directly to a Mac or PC for straightforward plug-and-play operation, or used as an ADAT audio expander alongside an existing audio interface. This adaptability allows users to incorporate two full 1073 channel strips into their setup with ease, whether in a home studio, professional facility, or mobile recording system.

Rack Mount Instructions

- ▶ Elevated Operating Ambient- If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (30°C) specified by the manufacturer.
- ▶ Reduced Air Flow - Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.
- ▶ Mechanical Loading - Mounting of the equipment in the rack should be such that a hazardous condition is not created by improper or uneven mechanical loading.
- ▶ **Reliable Earthing - Reliable earthing of rack-mounted equipment should be maintained. Attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).**

Installation en Baie (rack)

- ▶ Température en service élevée – si l'installation est effectuée dans un endroit clos et/ou multi-rack, il se peut que la température localisée soit plus élevée que la température ambiante. Dans ce cas, il faudra faire attention à ce que l'environnement soit compatible avec la température ambiante maximale (30°) spécifiée par le fabricant.
- ▶ Aération réduite – l'installation de l'appareil dans une baie devra être réalisée afin de permettre une circulation d'air suffisante pour que le fonctionnement de celui-ci ne soit pas compromis.
- ▶ Installation mécanique – l'installation de l'appareil dans un rack devra être réalisée afin d'éviter une position qui s'avèrerait dangereuse dans le cas d'une installation instable.
- ▶ Mise à la terre convenable – la mise à la terre dans le cas d'une installation en baie/rack doit être maintenue. Une attention particulière devra être portée pour toute connection indirecte (par exemple utilisation d'une multiprise)



Quick Start Guide

The DPX-D, delivered in premium packaging, contains the following-

- **DPX-D 19" rack unit**
- **USB C > USB B 2.0 cable (Black)**
- **User Manual QR link**
- **Neve Outboard Product Brochure**
- **Neve Sticker**

Physical Computer Connections

Connect your 1073DPX-D unit to your computer using the USB cable provided, do not use USB cables longer than 3m as they can cause a drop in performance of your unit. The 1073DPX-D is USB 2.0 compliant; USB 2 and USB 3 ports can be used for digital audio transfer. Once a Stable connection is made, (and the AMS Neve Audio Driver is installed for PC users) the USB LED will illuminate Blue.

Connecting via a USB hub

It is best practice to connect the 1073DPX-D Directly to your computer's USB 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 1073DPX-D complies with the USB Device Class Definition for Audio Devices 2.0 specification.

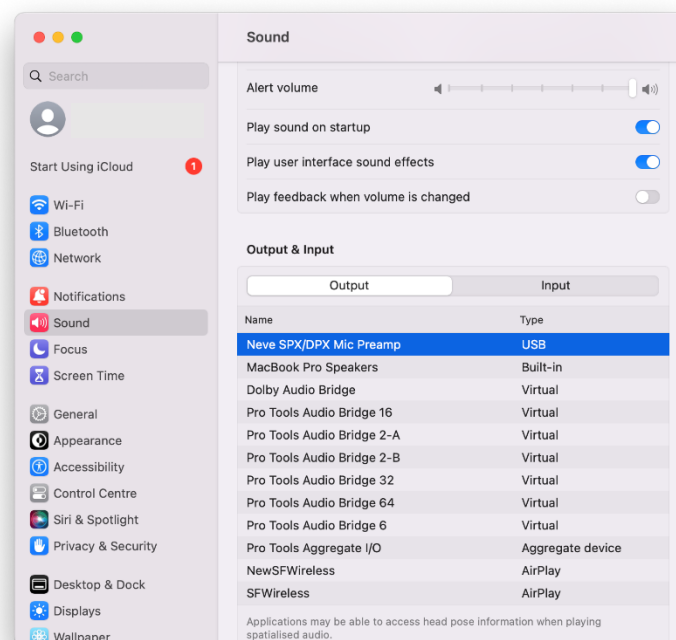
MAC

The 1073DPX-D will appear as a core audio device once connected to your Apple Mac computer.

To select the 1073DPX-D as your Mac Audio Interface, navigate to-

🍏 > System Settings > Sound

Select Neve SPX/DPX Mic Preamp as both Input and Output Device



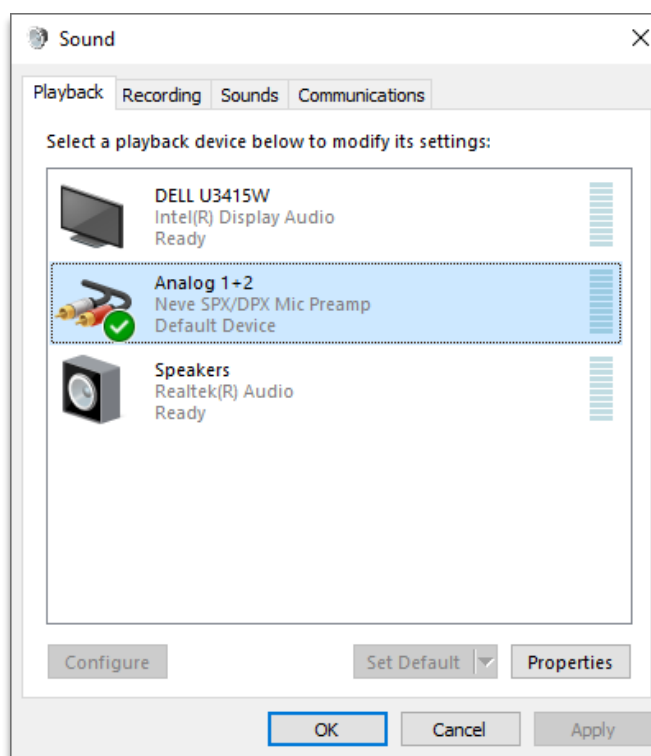
Windows

To operate on a Windows 10 PC, download and install the 1073DPX-D Driver from - <https://www.ams-neve.com/1073DPX-D/#MoreInfo> > **Downloads**

Follow the setup wizard instructions to install the driver.



To select the 1073DPX-D as your PC Audio Interface, navigate to – **Control panel>Hardware & Sound>Sound>Manage Audio Devices.** Select **1073DPX-D Dual Mic Pre** as the **Playback and Recording device.**



Input Connections



Rear Connections

The 1073DPX-D features independent rear mounted female XLR connections for microphone or line level inputs. Each channel has dedicated XLR input connections.

The rear connections are ideally suited for studio integration into patch bays or direct connections to studio microphone snakes and line-level equipment such as audio interface outputs.

The two Rear connections for each channel are the default inputs for the 1073DPX-D.



FRONT Switch

The FRONT switch activates the front mounted Combi Mic/line/DI connector and disables the rear XLR input connections. Each channel has a dedicated switch.

Toggling the **FRONT** switch allows for easy access to the unit via the front combi input, without disconnecting the integrated rear inputs.

Front Input Connections

Microphone Input (XLR Connection)

Connect microphone sources via an XLR cable to the front combi input.

Line/DI Input (TRS Connection)

Connect line or instrument sources via a TRS/TS jack cable to the front combi input.

Each channel has dedicated combi XLR connections.





DIGI

The DIGI switch activates the digital line inputs, fed from DAW outputs 3&4 named **Neve Out 3 (Digi/Mon 3)** and **Neve Out 4 (Digi/Mon 4)**. Each channel has a dedicated switch.

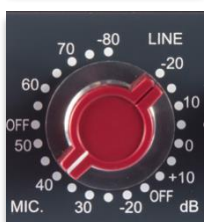
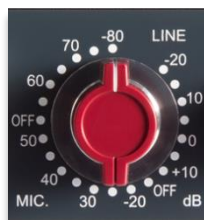
This input is designed so that the 1073DPX-D can act as a USB or ADAT hardware insert by sending DAW signals directly into the DPX-D line preamp.

When DIGI is depressed, front & rear analogue line inputs (XLR & TRS/TS) are bypassed and only the digital input is fed to the 1073 Line preamplifier.

See Page 13 for Line preamp configuration



Preamp Controls



The 1073DPX-D features two of the legendary 1073 preamps, complete with transformer-balanced topology and multiple gain stages for all input types.

Gain Switch

The 1073DPX-D gain switch is used to select the input type (Mic or Line) and set the preamp gain level for the selected input.

Preamp gain is incremented in 5dB steps, ranging from -20 to +10 of line level, and -20 to -80dB of microphone level.

The **line preamp** has seven gain settings, selectable from the gain switch. In each of these positions, the rear XLR or front TRS line input is selected via the **FRONT** switch setting.

The **microphone preamp** has 13 switch settings, selectable from the gain switch. In each of these positions, the rear XLR or front XLR microphone input is selected via the **FRONT** switch setting.

There are two '**off**' positions. The first **off** position deactivates the line preamp before switching to the microphone preamp.

The second '**off**' position denotes the point in which the first single-transistor microphone preamp gain stage is deactivated, and the second, dual-transistor microphone preamp gain stage is activated.

At higher gain settings (-55dB or more) a greater degree of harmonic saturation can be achieved and clipping into the DAW can be avoided by decreasing the output gain via the **O/P Level** control.

Phantom Power (+48v)

The **+48V** switch activates phantom power for the front & rear XLR microphone inputs. When activated, the red LED will illuminate. Each channel has a dedicated switch.

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.

The +48V switch should be switched on for condenser microphones.

Note: Before activating Phantom Power, ensure that the monitor level is turned down to protect your monitoring system from pops.



Lo-Z

Lo-Z Switches the front or rear microphone input impedance from the default 1.2k Ω setting to 300 Ω impedance. Each channel has a dedicated switch.

This switch should be used to impedance match the microphone preamp to the connected microphone.

Most modern microphones use higher impedance settings, so the default 1.2k Ω setting should be used.

Vintage microphones may use lower impedances, so the Lo-Z setting of 300 Ω should be used.

In modern use, this setting can be used to apply a different 'voicing' to the microphone input.

Note: Always check your microphone output impedance settings before activating lo-Z



DI

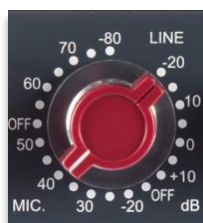
The **DI** Switch activates the front TRS DI instrument preamplifier input. Each channel has a dedicated switch.

When depressed, instruments can connect to the front TRS combi connector via a 6.35mm TS or TRS jack cable.

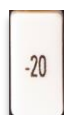
The DI input has a high impedance of 2M Ω . DI signals pass through the microphone transformer and mic preamp stage of the 1073DPX-D.

To apply gain to an instrument DI, set the 1073DPX-D gain switch to the microphone input side of the switch, and adjust gain accordingly.

NOTE: When DI is depressed, all other microphone inputs are automatically disconnected



-20



The **-20** switch Provides 20dB of attenuation to the DI input, accommodating 'hot' instrument signals. Each channel has a dedicated switch.

In the default position (**-20 off**) the input impedance of the DI input is approximately 2M Ω .

When set to -20dB attenuation (**-20 depressed**) the input impedance of the DI input is reduced to approximately 200k Ω .



EQ Section



The 1073DPX-D uses a three-band inductor-based EQ circuit, identical to the classic 1073 80-series modules. The EQ circuit also includes a choke-based high pass filter.

EQ Switch

The three-band EQ and HPF are activated via the **EQ** switch. Unless **EQ** is switched, the EQ and HPF are completely bypassed. Each channel has a dedicated switch.



High Frequency

The high EQ band control provides smooth ± 16 dB of fixed frequency shelving EQ at 12kHz.



Mid Frequency

The mid EQ band control provides smooth ± 18 dB of peaking EQ with a fixed Q.

The second ring of the dual concentric control is a switched frequency selector, ranging from 0.36, 0.7, 1.6, 3.2, 4.8, & 7.2kHz.

In the 'off' position, the mid EQ band is bypassed.



Low Frequency

The Low EQ band control provides smooth ± 16 dB of shelving EQ.

The second ring of the dual concentric control is a switched frequency selector, ranging from 35, 60, 110, & 220Hz.

In the 'off' position, the low EQ band is bypassed.



High Pass Filter

The **HPF** is a switched rotary control used to activate an 18dB per octave high pass filter into the 1073DPX-D signal path.

Corner frequencies are selectable at 50, 80, 160 & 300Hz.

In the 'off' position, the HPF is bypassed.

Output Connections & Controls



Phase

The Phase switch reverses the polarity of the 1073DPX-D selected channel's output signal. In the default position, absolute phase is preserved through the unit. When Phase is depressed, the output signal of the unit is inverted by 180 degrees. Each channel has a dedicated switch.

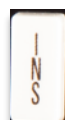


Insert Send & Return Connections

The insert send and return TRS connections are balanced at +4dBu, allowing for connection to professional audio equipment such as compressors etc. Each channel has dedicated insert send/return connections.

The insert send is always active and provides a parallel split of the preamp output, pre or post EQ.

The insert return breaks the preamp>EQ/Output circuit and can be used to inject signals from outboard gear into the 1073DPX-D's EQ/Output signal path.



INS

The **INS** Switch activates the rear TRS insert send/return loop into the DPX-D signal path. Each channel has a dedicated switch.



PRE

When depressed, the **PRE** switch positions the insert send/return loop before the 1073DPX-D EQ circuit (pre-EQ). Each channel has a dedicated switch.

In the default position, the insert loop is positioned immediately after the EQ circuit (post-EQ).



Line O/P

The Line O/P male XLR connection is the main analogue output of the 1073DPX-D. Each channel has a dedicated XLR output connection.

Connect the Line output to an available line input on your audio interface to record DPX signals into your DAW.



O/P Level

Adjusts the output audio level fed to the XLR outputs.

This control is post-EQ but pre-output transformer.

The pot ranges from -inf to +5dB, the thick line on the graticule indicates the '0' point of nominal unity gain.

Metering



The 1073DPX-D features a 7-stage LED PPM meter ranging from -30dB to +24dBu.

Metering can be fed from three sources, selected by pressing **O/P LEVEL**.



I/P – Displays metering just after the preamp gain switch.



EQ – Displays metering after the EQ & Insert send/return loop circuit.



O/P – Displays metering after the output level control.

In addition to the 7-stage LED meters, each of the meter source LEDS (I/P, EQ, O/P) include clip indication and will illuminate red if their respective signal source is close to clipping.



Monitor Connections & Controls



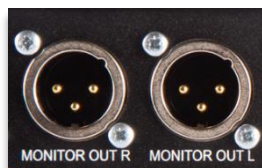
Monitor Input

The two monitor in L and monitor in R connections are used to input a stereo monitor source into the 1073DPX-D analogue monitor path.

These connections are ideally used as monitor connections from an external audio interface, providing an additional monitor attenuator control via the **HP** or **Monitor level** pot.



HP/Monitor level must be set to **MON** to activate the stereo analogue monitor path.



Monitor Output

The two monitor out L and R connections are used as the main stereo monitor output for the 1073DPX-D.

These connections are designed to connect to active studio loudspeakers or loudspeaker amplifiers.



HP Level

The HP Level control is a full range attenuator ranging from 0dB at the fully clockwise position to -inf at the fully counterclockwise position.

The HP Level control features a centre détente at the 12-o'clock position. This position is set at -10dB from the maximum output level and can be used as an ideal reference point when listening through headphones.



Monitor Level

The Monitor Level control is a full range attenuator ranging from 0dB at the fully clockwise position to -inf at the fully counterclockwise position.

Monitor **CUT** can be activated by short pressing the Monitor Level pot. When depressed **CUT** will disable the stereo monitor L&R XLR outputs. The TRS HP output will remain un-cut.

Monitor Source Selection

Monitor level controls can be long pressed to toggle through a selection of monitor sources that feed to their respective outputs. The monitor sources are detailed below.



DPX- The outputs of the DPX-D channel strips are fed to the monitor output as either mono or stereo signals depending on **MONO/STEREO** switch setting.



DAW- The output of the DAW/computer is fed into the left & right stereo monitor output as a stereo signal. The DAW feed for the Monitor is always DAW output 1&2 and indicated with a green LED.



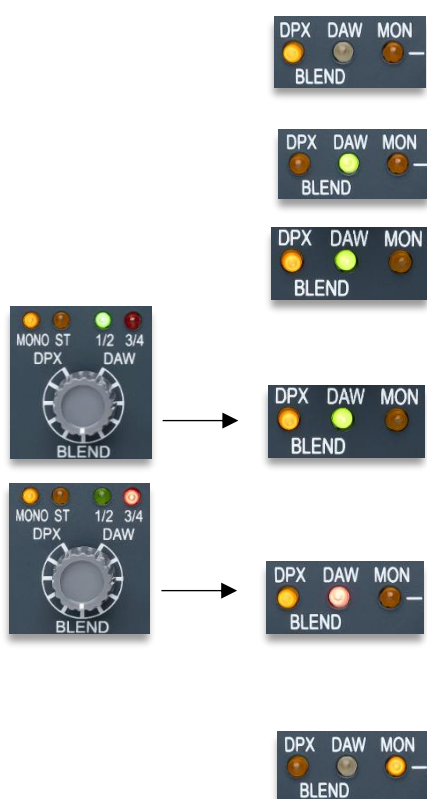
BLEND (DPX/DAW) - A blend of DPX-D outputs and stereo DAW input is fed into left & right stereo monitor outputs. When both DPX and DAW LEDs are illuminated, the **BLEND** pot is engaged.



MON - The stereo analogue monitor input is fed into the stereo left & right monitor outputs.

Headphone Source Selection

Both the HP and Monitor level controls can be long-pressed to toggle through a selection of monitor sources that feed to their respective outputs. The monitor sources are detailed below.



DPX- The outputs of the DPX-D channel strips are fed to the headphone output as either mono or stereo signals depending on **MONO/STEREO** switch setting.

DAW- The output of the DAW/computer is fed into the left & right stereo monitor output as a stereo signal.

BLEND (DPX/DAW) - A blend of DPX-D outputs and stereo DAW input is fed into left & right Headphone outputs. When both DPX and DAW LEDs are illuminated, the **BLEND** pot is engaged.

The DAW feed for the Headphones can be fed from either DAW outputs **1&2** (green LED) or **3&4** (red LED).

A long press of the **BLEND** pot changes the stereo DAW signal from DAW output **1/2** to output **3/4**. This allows for two independent stereo mixes to be selected and sent to the headphones.

MON - The stereo analogue monitor input is fed into the stereo left & right Headphone outputs.

Blend

The blend control is used to crossfade stereo DAW and mono/stereo DPX signals into the 1073DPX-D stereo monitor and headphone outputs. This pot is designed to allow for latency-free monitoring when tracking through the 1073DPX-D.



- At the centre position, DAW and DPX signals are each attenuated by 6dB.
- At the maximum, counterclockwise position (**DAW**) the DPX signal is fully attenuated, and only the stereo DAW signal is present at the stereo monitor and headphone outputs.
- At the maximum, clockwise position (**DPX**) the DAW signal is fully attenuated, and only the mono DPX signal is present at the stereo monitor and headphone outputs.

Mono/Stereo monitoring

1

A short press of the **BLEND** pot changes the input source from mono to stereo.

This option only affects the DPX portion of the Monitoring, whether in **DPX** or **BLEND** mode (**DPX + DAW**) for both the Headphone and Monitor outputs.



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

STEREO (ST) – This option is ideal for stereo tracking, and overdubbing using two microphones, such as recording a piano or acoustic guitar.

Channel 1 feeds the left loudspeaker and headphone outputs, and channel 2 feeds the right loudspeaker and headphone outputs.

In **BLEND** mode, stereo overdubbing is achieved by blending the stereo direct DPX signal along with a stereo backing track played from the DAW.





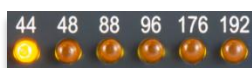
The USB 2.0 B-type port is used along with the cable(s) provided to connect the DPX-D to your computer as an audio interface.

When connected, the 1073DPX-D can be used as both a playback and recording device for the connected computer and DAW software applications.



When a valid USB connection is made, the USB LED will illuminate blue, indicating that the device can now be configured as the computer audio interface.

Sample rate selection is handled either from the DAW application, or from the ASIO/Core audio driver.



The LEDs on the front of the unit indicate the selected sample rate.



ADAT Connections

The 1073DPX-D features one optical output port and one optical input port. These two optical connections are used to connect the 1073DPX-D via TOSLINK cables to another ADAT-enabled audio interface such as the Neve 1073OPX, 1073SPX-D or another 1073DPX-D.



Wordclock Synchronisation

The 1073OPX USB/ADAT Digital card has a Wordclock 75Ohm BNC output connector.

This output can be used to synchronise external equipment to the 1073DPX-D internal clock.

The Wordclock output transmits sync data when either ADAT internal/external mode or USB mode is selected.



USB/ADAT Hub Mode

The 1073DPX-D has two possible modes of digital operation.

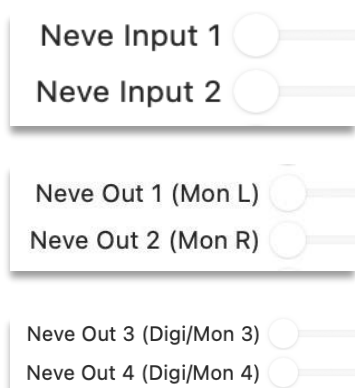
USB/ADAT Hub mode enables the 1073DPX-D to function as a 10x12 I/O USB audio interface for your Mac or PC, expandible via ADAT input and output connections.

Connect the 1073DPX-D to your computer via USB. The USB LED will illuminate once the computer selects the DPX-D as its audio device.

In USB/ADAT Hub mode, the USB audio interface will report two analogue inputs, 8 digital inputs, four analogue outputs, and 8 digital outputs from the audio driver (Core Audio for Mac, AMS Neve USB Audio Device Control Panel for PC).

USB/ADAT Hub mode is activated automatically when a valid USB connection is established.

USB Driver I/O



The 1073DPX-D has two digital inputs to the USB connection and four digital outputs from the USB connection.

- **Neve Input 1** is reserved to send the 1073DPX-D Channel 1 signal into the DAW.
- **Neve Input 2** is reserved to send the 1073DPX-D Channel 2 signal into the DAW.
- **Neve Outputs 1&2 (Mon L/R)** are reserved for stereo DAW monitoring.
- **Neve Outputs 3&4 (Digi/Mon)** can be configured as an additional stereo monitoring pair.
- **Neve Outputs 3&4 (Digi/Mon)** are also used as the DPX-D digital DIGI line inputs.



ADAT Output

In USB/ADAT Hub mode, a single ADAT output is used to transmit up to eight additional outputs digitally from your DAW via the ADAT output port.

At lower sample rates (44.1kHz, 48kHz) the optical output can transmit eight channels of digital audio. ADAT OUT transmits channels 1-8.

At higher sample rates (88.2kHz, 96kHz) only the first four channels of digital audio are available. ADAT OUT transmits channels 1-4.

At the highest sample rates (176.4kHz, 192kHz) only the first two channels of digital audio are available. ADAT OUT transmits channels 1-2.

ADAT Input

In USB/ADAT Hub mode, the ADAT IN port is used to feed signals from external devices through the 1073OPX USB and into the DAW.

At lower sample rates (44.1kHz, 48kHz) the optical output can transmit eight channels of digital audio. ADAT IN transmits channels 1-8.

At higher sample rates (88.2kHz, 96kHz) only the first four channels of digital audio are available. ADAT IN transmits channels 1-4.

At the highest sample rates (176.4kHz, 192kHz) only the first two channels of digital audio are available. ADAT IN transmits channels 1-2.



Sample Rate	ADAT OUT	ADAT IN
44.1/48 kHz	DAW Outputs 5-12	DAW Inputs 3-10
88.2/96 kHz	DAW Outputs 5-8	DAW Inputs 3-6
176.4/192 kHz	DAW Outputs 5-6	DAW Inputs 3-4

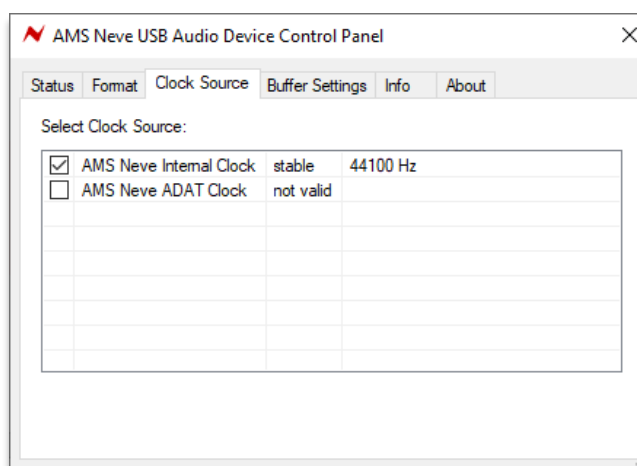
Internal/ADAT clock source selection

In USB Hub mode, the 1073DPX-D can either clock to its internal clock source or can clock to an external source via the ADAT input.

Note: sample rates must be matched on both devices when using ADAT clock mode.

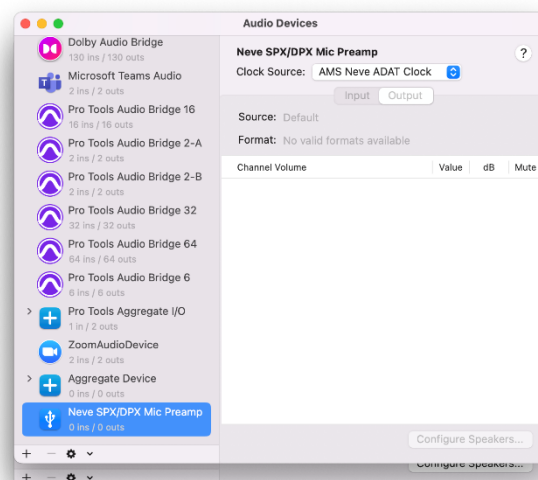
Clock Source Selection PC

Open the AMS Neve USB Audio Device Control Panel, navigate to 'clock source tab and select either AMS Neve Internal clock, or AMS Neve ADAT Clock.



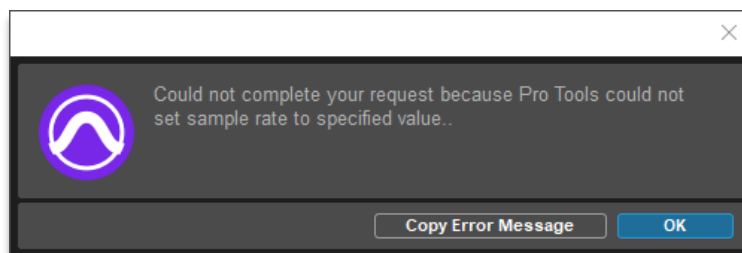
Clock Source Selection Mac

Open Audio MIDI Setup, navigate to 'show audio devices' and select either AMS Neve Internal clock, or AMS Neve ADAT Clock from the dropdown option at the top of the window.



Sample Rate/ ADAT Channel Count Configuration

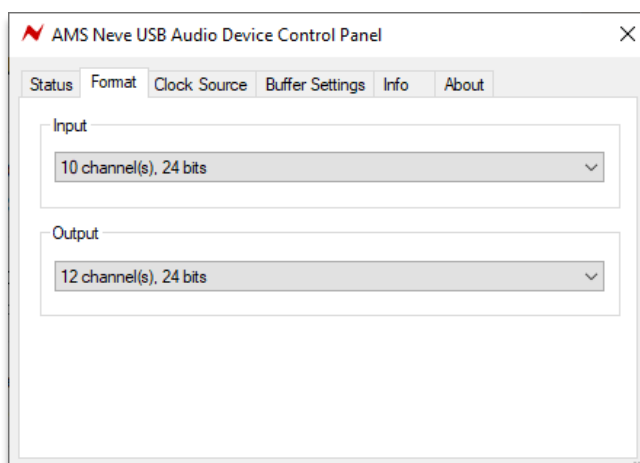
When using the 1073DPX-D in USB/ADAT Hub mode, adjustments must be made from within the audio driver to correctly map the unit's digital ADAT I/O to the available channel count at the requested sample rate. If this step is not performed, the DAW may present an error message when changing sample rates.



PC

To configure the ADAT channel count for your selected sample rate -

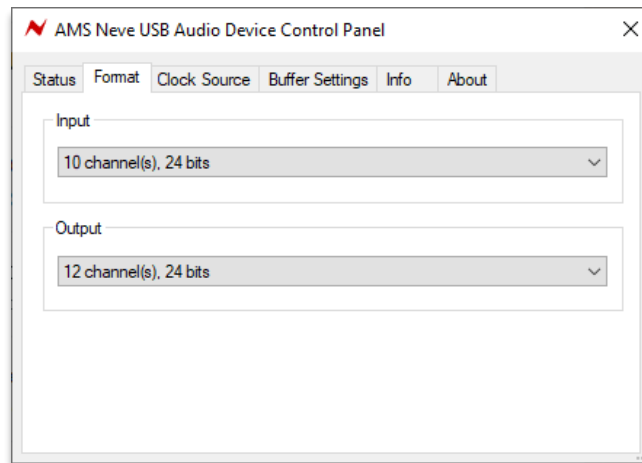
- ▶ Navigate to the **Windows Start Menu>AMS Neve>AMS Neve USB Audio Device Control Panel**
- ▶ Open the **AMS Neve USB Audio Device Control Panel** application
- ▶ Open the **Format** tab



To configure for 44.1 or 48kHz sample rates, select –

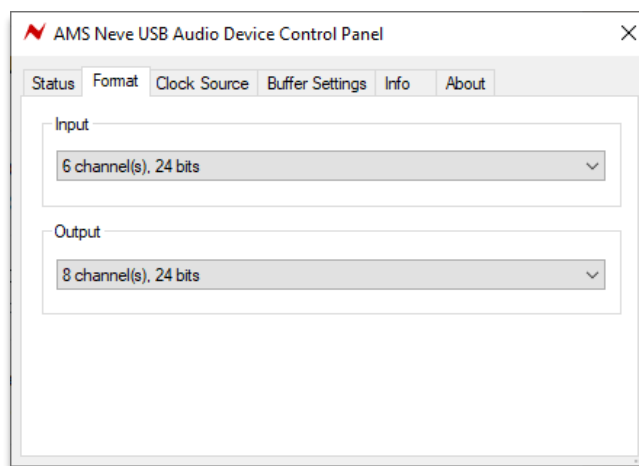
- ▶ Input – 10 channel(s)
- ▶ Output – 12 channel(s)





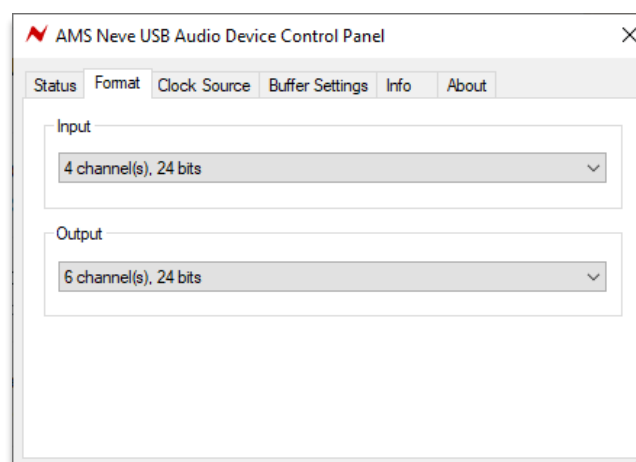
To configure for 88.2 or 96kHz sample rates, select –

- ▶ Input – 6 channel(s)
- ▶ Output – 8 channel(s)



To configure for 176.4 or 192kHz sample rates, select –

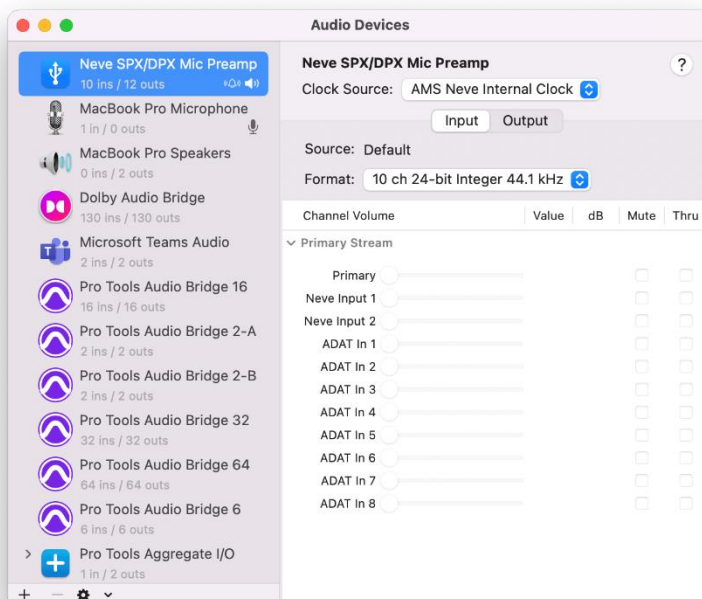
- ▶ Input – 4 channel(s)
- ▶ Output – 6 channel(s)



Mac

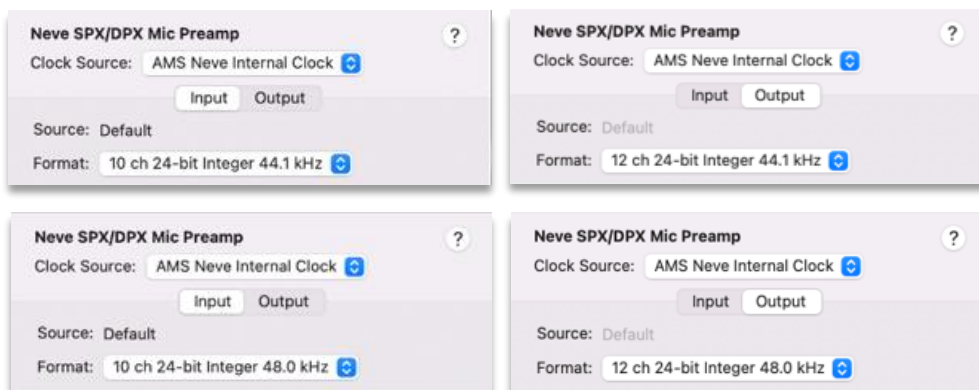
To configure the ADAT channel count for your selected sample rate -

- ▶ Navigate to the **Applications>Utilities>Audio MIDI Setup**
- ▶ Select **Neve SPX/DPX Mic Preamp** from the Audio Devices Window
- ▶ Select **Input & Output** tabs to configure the ADAT I/O channel count



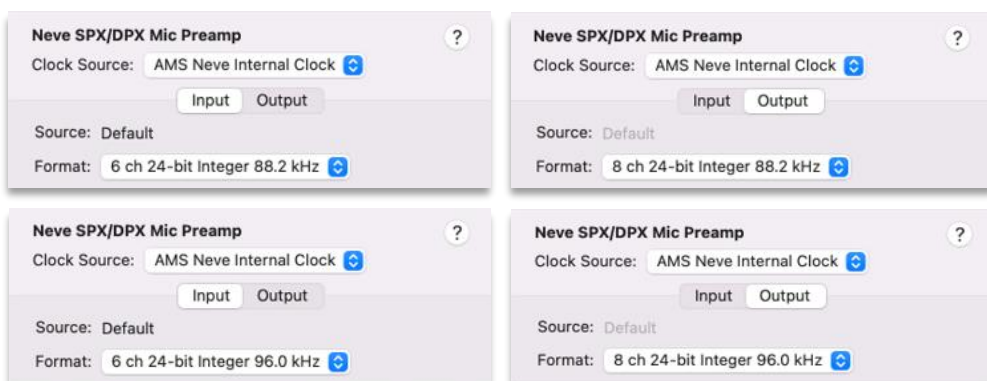
To configure for 44.1 or 48 kHz sample rates, select –

- ▶ Input – 10 ch 24-bit Integer 44.1 kHz/10 ch 24-bit Integer 48 kHz
- ▶ Output – 12 ch 24-bit Integer 44.1 kHz/12 ch 24-bit Integer 48 kHz



To configure for 88.2 or 96 kHz sample rates, select –

- ▶ Input – 6 ch 24-bit Integer 88.2 kHz/6 ch 24-bit Integer 96 kHz
- ▶ Output – 8 ch 24-bit Integer 88.2 kHz/ 8 ch 24-bit Integer 96 kHz



To configure for 176.4 or 192 kHz sample rate, select –

- ▶ Input – 4 ch 24-bit Integer 176.4 kHz/4 ch 24-bit Integer 192 kHz
- ▶ Output – 6 ch 24-bit Integer 176.4 kHz/6 ch 24-bit Integer 192 kHz

Neve SPX/DPX Mic Preamp ?

Clock Source: AMS Neve Internal Clock

Input Output

Source: Default

Format: 4 ch 24-bit Integer 176.4 kHz

Neve SPX/DPX Mic Preamp ?

Clock Source: AMS Neve Internal Clock

Input Output

Source: Default

Format: 6 ch 24-bit Integer 192.0 kHz

Neve SPX/DPX Mic Preamp ?

Clock Source: AMS Neve Internal Clock

Input Output

Source: Default

Format: 4 ch 24-bit Integer 192.0 kHz

Neve SPX/DPX Mic Preamp ?

Clock Source: AMS Neve Internal Clock

Input Output

Source: Default

Format: 6 ch 24-bit Integer 176.4 kHz



ADAT Audio Expander Mode



ADAT Audio Expander mode allows the 1073DPX-D to function as an I/O expansion device for your current audio interface (if it includes either an ADAT input or an ADAT input & output).

The 1073DPX-D features an optical output port and an optical input port. These two optical connections are used to connect the 1073DPX-D via TOSLINK cables to your audio interface, expanding its recording capabilities by adding a complete 1073 channel strip and two additional stereo monitor outputs.

NOTE: ADAT expander mode is activated by default if no USB connection is present. If USB connection is present, USB/ADAT Hub mode is automatically activated.

ADAT Outputs

In ADAT Audio Expander mode, the ADAT output is used to transmit the digital output signal of the 1073DPX-D channel strips at sample rates ranging from 44.1kHz to 96kHz.

DPX channel 1 is presented to your audio interface at ADAT Input 1

DPX channel 2 is presented to your audio interface at ADAT Input 2

ADAT Input

In ADAT Audio Expander mode, the **ADAT IN** port is used to feed signals from the DAW, into the 1073DPX-D **DAW 1&2** or **3&4** stereo monitor input at sample rates ranging from 44.1kHz to 96kHz.

From your audio interface or DAW, **ADAT outputs 1-2** or **ADAT outputs 3-4** can feed the DPX-D stereo monitoring path.

ADAT Output 3 is also used for Channel 1 DIGI Input

ADAT Output 4 is also used for Channel 2 DIGI Input

Sample Rate Selection

To select the 1073DPX-D sample rate, **press the red SR button** located to the left of the sample rate LEDs. The sample rate will toggle through 44, 48, 88, and 96.

The sample rate set on the 1073DPX-D must match the sample rate set on your audio interface.

Digital Synchronization

The 1073DPX-D can operate as Master clock or can slave to an external clock via the ADAT input via **pressing the red SYNC button** located to the right of the sample rate LEDs.

Internal clock (INT LED On)

In internal clock mode, the 1073DPX-D is the master clock for your audio interface. In this mode, your audio interface must select ADAT as its clock source.

ADAT Clock (INT LED Off)

In ADAT clock mode, the 1073DPX-D receives its clock source from the ADAT Input. In this mode, your audio interface must be set to internal clock source.

Note: External sync can only be selected when a valid ADAT signal is detected.

Dimensions & Power Requirements

Height	88mm/3.5 inches
Width	480mm/19 inches
Depth	360mm/14.17 inches
Weight	5.475Kg/12.07Lbs
Voltage	100 – 240Vac
Current	0.2A @ 240Vac

PSU	Neve PS12221
+16V internal fuse	T2A 230V 20mm
-16V internal fuse	T2A 230V 20mm
48V internal fuse	T250mA 230V 20mm



Audio Specification

Microphone Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.4dB
Frequency Response 10Hz to 35kHz	+/-1dB
Distortion (THD)	<0.2% 20-20kHz, <0.02% 1kHz
Noise EIN	<-124.5dBu 20-20kHz unweighted, gain @ 60dB
Gain Range	20 to 80dB
Maximum Input Level (Max Gain @ 80dB)	-52dBu
Maximum Input Level (Min Gain @ 20dB)	+6dBu
Input Impedance	1200Ω / 300Ω
Line Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.4dB
Frequency Response 10Hz to 35kHz	+/- 1dB
Distortion (THD)	<0.2% 20-20kHz, <0.02% 1kHz
Noise (EIN)	<-100dBu 20-20kHz unweighted, gain @ 20dB
Gain Range	-10 to +20dB
Maximum Input Level (Max Gain @ 20dB)	+6dBu
Maximum Input Level (Min Gain @ -10dB)	+36dBu
Input Impedance	10kΩ
DI Inputs	
Frequency Response 20Hz to 20kHz	+/- 0.5dB
Distortion (THD)	<0.2% 20-20kHz, <0.02% 1kHz
Gain Range	20 – 80dB without pad
Maximum Input Level (Max Gain @ 80dB)	-56dBu
Maximum Input Level (Min Gain @ 20dB)	+6dBu
Input Impedance	2MΩ / 200kΩ
Insert Send / Return	
Maximum Output Level	+26dBu
Maximum Input Level	+26dBu
Mon Outputs	
Maximum Output Level	+20dBu

Headphone output (600Ω load)	
Maximum Output Level	+14dBu
Frequency Response	10 - 30kHz +/-0.1dB
Distortion (THD)	0.005%
Noise floor	-90dBu
Metering	
Signal	~-30dBu
Clip	+23dBu



AD/DA Specification

Type	Device	Sample Rate	THD+Noise	Dynamic Range	Distortion	Max Input Level	Max Output Level
USB	A/D Conversion	48,000	<100dBFS ¹	>119dB	<0.002% ²	>+26dBu	-
USB	D/A Conversion	48,000	<-91.5dBu ¹	>117dB	<0.001% ²	-	26dBu
USB	A/D Conversion	192,000	<100dBFS ¹	>119dB	<0.002% ²	>+26dBu	-
USB	D/A Conversion	192,000	<-91.5dBu ¹	>117dB	<0.001% ²	-	26dBu

¹THD+Noise (A weighted), 20Hz, 20kHz filter ON, measured through line in transformer

²Distortion, with a +26dBu input signal, minimum gain

Round Trip Latency (RTL)

Type	Device	S.R.	Bits	Buffer	Measured RTL (ms)	Noise Floor
ASIO	AMS Neve USB Audio Device	44100	32	16	8.707	-110.7
ASIO	AMS Neve USB Audio Device	44100	32	32	10.454	-110.4
ASIO	AMS Neve USB Audio Device	44100	32	64	10.794	-111.4
ASIO	AMS Neve USB Audio Device	44100	32	128	12.132	-111.1
ASIO	AMS Neve USB Audio Device	44100	32	256	16.145	-111.8
ASIO	AMS Neve USB Audio Device	44100	32	512	26.327	-111.6
ASIO	AMS Neve USB Audio Device	44100	32	1024	45.669	-111.3
ASIO	AMS Neve USB Audio Device	44100	32	2048	87.029	-111.6
ASIO	AMS Neve USB Audio Device	48000	32	16	8.854	-109.1
ASIO	AMS Neve USB Audio Device	48000	32	32	9.958	-110.5
ASIO	AMS Neve USB Audio Device	48000	32	64	10.604	-111.7
ASIO	AMS Neve USB Audio Device	48000	32	128	11.062	-111.1
ASIO	AMS Neve USB Audio Device	48000	32	256	17.875	-111.6
ASIO	AMS Neve USB Audio Device	48000	32	512	25.333	-111.2
ASIO	AMS Neve USB Audio Device	48000	32	1024	45.104	-111.6
ASIO	AMS Neve USB Audio Device	48000	32	2048	82.188	-110.6
ASIO	AMS Neve USB Audio Device	96000	32	16	5.062	-109.7
ASIO	AMS Neve USB Audio Device	96000	32	32	5.49	-109.5
ASIO	AMS Neve USB Audio Device	96000	32	64	6.312	-109.8
ASIO	AMS Neve USB Audio Device	96000	32	128	6.104	-109.3
ASIO	AMS Neve USB Audio Device	96000	32	256	9.062	-109.6
ASIO	AMS Neve USB Audio Device	96000	32	512	13.99	-109.6
ASIO	AMS Neve USB Audio Device	96000	32	1024	23.323	-109.7
ASIO	AMS Neve USB Audio Device	96000	32	2048	40.99	-109.7
ASIO	AMS Neve USB Audio Device	192000	32	32	3.365	-107
ASIO	AMS Neve USB Audio Device	192000	32	64	3.516	-107.1
ASIO	AMS Neve USB Audio Device	192000	32	128	4.474	-107.2
ASIO	AMS Neve USB Audio Device	192000	32	256	4.771	-107.2
ASIO	AMS Neve USB Audio Device	192000	32	512	7.099	-107.5
ASIO	AMS Neve USB Audio Device	192000	32	1024	11.516	-107.1
ASIO	AMS Neve USB Audio Device	192000	32	2048	21.484	-107.4

Unit Connection Tables

Power and Comms	USB2 Type-B
Preamplifier Microphone Inputs	XLR 3-pin plug female
Preamplifier Line Inputs	XLR 3-pin plug female & ¼" TRS Jack socket
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	XLR 3-pin plug male

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	44mm/1.75"
Largeur	480mm/19"
Profondeur	360mm/14.17"
Poids	5.475Kg/12.07Lbs
Voltage	100 – 240Vac
Courant	0.2A @ 240Vac

PSU	Neve PS12221
+16V fusible interne	T2A 230V 20mm
-16V fusible interne	T2A 230V 20mm
48V fusible interne	T250mA 230V 20mm



Spécifications Audio

Entrées Microphone	
Réponse de fréquence 20Hz à 20kHz	+/- 0.4dB
Réponse de fréquence 10Hz à 35kHz	+/-1dB
Distortion (THD+N)	<0.2% 20-20kHz, <0.02% 1kHz
Bruit EIN	<-124.5dBu 20-20kHz unweighted, gain @ 60dB
Plage de Gain	20 – 80dB
Niveau Maximum Entrée (Gain Max @ 80dB)	-52dBu
Niveau Maximum Entrée (Gain Min @ 20 dB)	+6dBu
Impédance d'entrée	1200Ω / 300Ω
Entrées Ligne	
Réponse de fréquence 20Hz à 20kHz	+/- 0.4dB
Réponse de fréquence 10Hz à 35kHz	+/- dB
Distortion (THD+N)	<0.2% 20-20kHz, <0.02% 1kHz
Plage de Gain	<-100dBu 20-20kHz unweighted, gain @ 20dB
Niveau Maximum Entrée (Gain Max @ 20dB)	-10 – +20dB
Niveau Maximum Entrée (Gain Min @ -10dB)	+6dBu
Impédance d'entrée	+36dBu
Entrées Directes (DI)	
Réponse de fréquence 20Hz à 20kHz	+/- 0.5dB
Distortion (THD+N)	<0.2% 20-20kHz, <0.02% 1kHz
Plage de Gain	20 – 80dB without pad
Niveau Maximum Entrée (Gain Max @ 80dB)	-56dBu
Niveau Maximum Entrée (Gain Min @ 20dB)	+6dBu
Impédance d'entrée	2MΩ / 200kΩ
Départs insert	
Niveau Maximum Sortie	+26dBu
Niveau Maximum Entrée	+26dBu
Sorties Moniteur	
Niveau Maximum Sortie	+20dBu

Sortie Casque (charge 600 Ohm)	
Niveau Maximum Sortie	+14dBu
Réponse de fréquence	10 - 30kHz +/-0.1dB
Distortion (THD +N)	0.005%
Bruit de fond	-90dBu
Mesure	
Signal	-30dBu
Clip	+23dBu



Spécification AD/DA

Type	Dispositif	S.R	Bruit	Plage Dynamique	Distortion	Niveau Max Entrée	Niveau Max Sortie
USB	A/D Conversion	48,000	<100dBFS ¹	>119dB	<0.002% ²	>+26dBu	-
USB	D/A Conversion	48,000	<-91.5dBu ¹	>117dB	<0.001% ²	-	26dBu
USB	A/D Conversion	192,000	<100dBFS ¹	>119dB	<0.002% ²	>+26dBu	-
USB	D/A Conversion	192,000	<-91.5dBu ¹	>117dB	<0.001% ²	-	26dBu

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

²Distortion, avec un signal d'entrée de 26dBu, gain minimum

Latence aller-retour

1

Type	Dispositif	S.R.	Bits	Tampon	RTL mesuré (ms)	Bruit de Fond
ASIO	AMS Neve Dispositif USB Audio	44100	32	16	8.707	-110.7
ASIO	AMS Neve Dispositif USB Audio	44100	32	32	10.454	-110.4
ASIO	AMS Neve Dispositif USB Audio	44100	32	64	10.794	-111.4
ASIO	AMS Neve Dispositif USB Audio	44100	32	128	12.132	-111.1
ASIO	AMS Neve Dispositif USB Audio	44100	32	256	16.145	-111.8
ASIO	AMS Neve Dispositif USB Audio	44100	32	512	26.327	-111.6
ASIO	AMS Neve Dispositif USB Audio	44100	32	1024	45.669	-111.3
ASIO	AMS Neve Dispositif USB Audio	44100	32	2048	87.029	-111.6
ASIO	AMS Neve Dispositif USB Audio	48000	32	16	8.854	-109.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	32	9.958	-110.5
ASIO	AMS Neve Dispositif USB Audio	48000	32	64	10.604	-111.7
ASIO	AMS Neve Dispositif USB Audio	48000	32	128	11.062	-111.1
ASIO	AMS Neve Dispositif USB Audio	48000	32	256	17.875	-111.6
ASIO	AMS Neve Dispositif USB Audio	48000	32	512	25.333	-111.2
ASIO	AMS Neve Dispositif USB Audio	48000	32	1024	45.104	-111.6
ASIO	AMS Neve Dispositif USB Audio	48000	32	2048	82.188	-110.6
ASIO	AMS Neve Dispositif USB Audio	96000	32	16	5.062	-109.7
ASIO	AMS Neve Dispositif USB Audio	96000	32	32	5.49	-109.5
ASIO	AMS Neve Dispositif USB Audio	96000	32	64	6.312	-109.8
ASIO	AMS Neve Dispositif USB Audio	96000	32	128	6.104	-109.3
ASIO	AMS Neve Dispositif USB Audio	96000	32	256	9.062	-109.6
ASIO	AMS Neve Dispositif USB Audio	96000	32	512	13.99	-109.6
ASIO	AMS Neve Dispositif USB Audio	96000	32	1024	23.323	-109.7
ASIO	AMS Neve Dispositif USB Audio	96000	32	2048	40.99	-109.7
ASIO	AMS Neve Dispositif USB Audio	192000	32	32	3.365	-107
ASIO	AMS Neve Dispositif USB Audio	192000	32	64	3.516	-107.1
ASIO	AMS Neve Dispositif USB Audio	192000	32	128	4.474	-107.2
ASIO	AMS Neve Dispositif USB Audio	192000	32	256	4.771	-107.2
ASIO	AMS Neve Dispositif USB Audio	192000	32	512	7.099	-107.5
ASIO	AMS Neve Dispositif USB Audio	192000	32	1024	11.516	-107.1
ASIO	AMS Neve Dispositif USB Audio	192000	32	2048	21.484	-107.4

Table de connexion de l'unité

Alimentation et Communications	USB2 Type-B
Préamplificateur (Sorties Microphone)	XLR 3-broches F
Préamplificateur (Entrées Ligne)	XLR 3-broches F & 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	XLR 3-broches M

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

