# NEVE

# 4081

Quad Mic Preamp

User Manual for Software V1.02 or later

Issue 2



#### Health & Safety Notice

#### FOR YOUR OWN SAFETY AND 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 WHEN UNUSED FOR LONG PERIODS OF TIME
- REFER ALL SERVICING TO QUALIFIED PERSONNEL ONLY
- ✓ NO USER SERVICEABLE PARTS INSIDE

#### FAILURE TO FOLLOW THESE PROCEDURES AND RECOMMENDATIONS COULD INVALIDATE THE MANUFACTURER'S WARRANTY

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Email:info@ams-neve.com Web: <u>www.ams-neve.com</u> Support: www.ams-neve.info/ftp/ The 4081 Quad Mic Preamp builds on the incredible success of the **1081** and **1081R** modules and provides both powerful control and legendary Neve sound.

Perfect for vocals, ADR and Foley recording, the 4081 features make it the number one choice for any studio, OB truck or live stage environment.

Every function of the 4081 can be controlled directly from the front panel or by remote control using a Mac or Intel based computer with Neve Remote Control software.

This provides a simple and elegant solution for users of ProTools, Nuendo, Cubase and similar DAW systems.

Multiple 4081 units can be linked together to create up to 64 independent channels of Mic Preamps or Line Level inputs, all controlled from a single point.

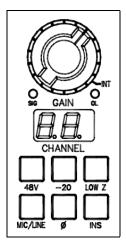
An optional Digital module provides a Firewire/AES interface with four channels of A/D and D/A conversion to either AES or Firewire.

An Insert point is available before the A/D converter on each channel to allow external, analogue outboard equipment to be switched into the signal path.

- Legendary Neve microphone preamp design.
- Four genuine 1081 Mic preamp channels in a single 8.5" wide unit.
- Two units can be fastened together to provide 8-channels in a single 19" unit.
- Remote control using a Mac/Intel computer and the Neve remote control software.
- XLR Mic input can be switched between Mic and electronically balanced Line.
- Switchable 48V Phantom power supply.
- Digital I/O Option:
- Firewire/AES interface with four channels of A/D conversion to either AES or Firewire and 4 channels of D/A conversion.
- Analogue Insert (pre A/D converter) per channel.



#### **Channel Controls**



The channels can be controlled from the front panel, from a remote Mac or PC or from Pro Tools using the optional remote control software.

By default, the unit powers-up with all functions locally controllable and settings are retained on power-down.

The unit is powered by the silver switch with the Neve logo, which will light red once the power is on.

Front panel control is available on each input for:

- **48V**: Turns on Phantom Power to the Mic (Not available for **LINE**)
- -20: Pad, attenuates the incoming Mic signal by -20dB (Not available for LINE)
- LOW Z: Impedance for Ribbon Microphones (Not available for LINE)
- **MIC/LINE**: Selects between the Mic or Line input. The button lights yellow when **MIC** is selected; the button will be unlit
- for LINE.Ø: Swaps the incoming phase of the Mic or Line signal.
- **INS**: This function is controls the source for the A/D in the FireWire expansion module if fitted. When illuminated, allows an external Insert Pre- the A/D of the expansion module.

Turning the **Gain** control will vary the gain as shown in the display beneath.

The Gain level is not related to the actual position of the knob, which will infinitely rotate.

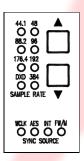
- The **MIC** gain control runs from +20dB to +70dB in 5dB steps.
- The **LINE** gain control runs from 0dB to +20dB in 5dB steps.

Just beneath the Gain control are two leds that indicate:

- Signal Presence (lights green at approx -30dBu or greater)
- Signal overload (lights red at 2dB below clipping)

The metering point is Post- the Gain stage. The maximum signal level is 26dBu.

The Gain knob also has a push-switch which only has a function if the unit is attached to an AMS Neve 88R console, where it is used to interrogate console control settings (to be implemented in V2.0 software)



If the optional **Digital / Firewire** hardware is fitted, the **Sample Rate** leds and adjacent buttons will also function.

The unit automatically detects the type and sample rate of the incoming sync signal if a connection is made to the **WCLK I/P** connector on the rear.

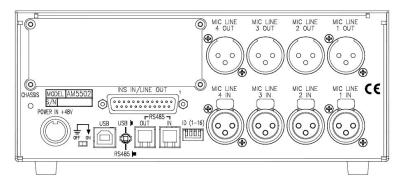
The  $\checkmark$  and  $\blacktriangle$  buttons are used to step through the available sample rates when running on internal sync.

- If running on Internal sync, the WCLK O/P BNC connector on the rear will transmit this sync.
- If running on an External sync source, the **WCLK O/P** BNC connector on the rear will transmit this sync instead.

The leds will reflect the sample rate & sync source once selected.

Issue 2

#### **Rear Connectors**



(Optional Digital Board not shown).

#### Mic / Line Input XLRs

Employs standard XLR wiring:

1	Screen	
2	Hi	
3	Lo	

#### Mic / Line Output XLRs

These can either be used as Direct Outputs from the unit, or as Insert Sends.

The Output is Post- the Gain control.

Pin-outs as above.

#### Power input

48 volts, 8-pin connector.

This connector is polarised so can only be connected in one way.

#### INS IN / LINE OUT

25-way D-type connector contains the Insert Return signals.

The **Line Out** part of this connector will have no function unless the optional AD/DA card is fitted (see below).

#### USB / RS 485

It is possible to 'daisy-chain' multiple units together so they are controlled via USB on a Mac or PC.

The first unit on the chain should be connected to the Mac or PC by a USB cable (not supplied).

The blue USB/RS485 button on the rear of this unit should be pushed in.

Subsequent units are connected from the RS 485 **OUT** of the 1<sup>st</sup> unit, to the **IN** on the 2<sup>nd</sup>; from the **OUT** of the 2nd to the **IN** of the 3rd and so on

(these subsequent units should have the blue **USB/RS485** button on the rear pushed **out** to select RS485 control).

The RS 485 communication protocol uses standard RJ9 connectors for connecting cables where multiple units can be chained together (cabling not supplied).

Please note that when connecting multiple units, each 4081 should have a unique ID as described below.

#### **Cable Specification**

The RS-422 specification recommends 24AWG twisted pair cable with a shunt capacitance of 16 pF per foot and 100 ohm characteristic impedance. These recommendations should be used for RS-485 systems as well.

We also recommend using shielded cable.

There are many cables available meeting the recommendations of RS-485 made specifically for this application. Another choice is the same cable commonly used in the twisted pair Ethernet cabling. This cable, commonly referred to as Category 5 cable, is defined by the EIA/TIA/ANSI 568 specification.

This cable has a maximum capacitance of 17 pF/ft (14.5 pF typical) and characteristic impedance of 100 ohms.

Category 5 cable is available as shielded twisted pair (STP) as well as unshielded twisted pair (UTP) and generally exceeds the recommendations for RS-422 making it an excellent choice for RS-422 and RS-485 systems.

#### 4081 unit ID dip switches

When remotely controlling more than one unit, the ID dip-switches on the rear of the unit need to be set so that each sequentially numbered unit on the chain responds to the correct commands.



The first 3 switches from left to right are used to set the machine IDs from 1-8. These switches are On when in the **down** position (the right-most switch on this block – Switch 4 - puts the unit into 'Bootloader Mode' where the unit software can be updated via USB, so is therefore not used to set the unit ID).

Unit ID	Switch 1	Switch 2	Switch 3
1	Off	Off	Off
2	On	Off	Off
3	Off	On	Off
4	On	On	Off
5	Off	Off	On
6	On	Off	On
7	Off	On	On
8	On	On	On

Where there are more than 8 units on an RS 485 chain, the IDs for units greater than 8 are set using a dip-switch on the switch-block labelled **SW2** inside the unit (just next to a programming connector labelled **J14** on the middle left of the board).

This block of switches may be covered with a thin protective film, which will need to be carefully removed before attempting to set the switches. For this switch, it is **On** when in the **up** position.

 Remove the lid to the unit, and set the 1<sup>st</sup> (left-most) switch on this block to be **ON**, then set the switches on the rear of the unit to the following:

Unit ID	Switch 1	Switch 2	Switch 3
9	Off	Off	Off
10	On	Off	Off
11	Off	On	Off
12	On	On	Off
13	Off	Off	On
14	On	Off	On
15	Off	On	On
16	On	On	On

If a unit's ID is changed, the power must be switched off and on again for the remote control software to receive the new ID number.

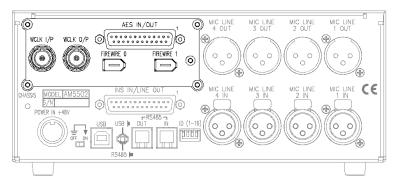
If the unit IDs are set incorrectly, they will either fail to respond or multiple units will respond to a single command.

#### **Technical Earth**

When switched on, internally connects zero volts to the unit chassis.



#### **Optional Digital / Firewire card**



This optional module has 2 FireWire ports, Wordclock sync **IN** and **OUT** and a 25-way D-type connector for AES Ins/Outs.

If this option is not present, there will be a blanking plate fitted instead, (as shown in the previous section), plus the **Sample Rate** leds & buttons on the front of the unit will not function.

The **AES IN/OUT** and **Firewire** ports are intelligent, in that if a Firewire connection is detected, then FireWire will be the digital interface.

If a Firewire connection is not detected, the unit will presume the audio is coming in via the **AES IN/OUT** 25-way D-type connector.

The expansion module the also has 4 DA/AD converters:

- AES signals going into AES IN/OUT (or Firewire if detected), these signals will also be output as analogue from LINE OUT of the 25 way D-sub connector.
- If INS is selected on a channel, the corresponding analogue input signal connected to INS IN of the 25 way D-sub connector, will be converted and output as AES signals from the AES IN/OUT (or Firewire if detected).

By default, the Post- gain amplified signal from the Mic/Line input will be routed to the A/D inputs.



# 

#### Installing the software – PC

#### **USB** Driver

Before continuing, please connect the 4081 by USB to the PC and power the unit up.

Before installing the control software, you will need to install a USB driver to enable communication between the PC and the 4081.

This can be downloaded from:

http://www.ams-neve.info/ftp/4081 USB Driver.exe

When presented with the option to either **Run** or **Save**, click **Save** and specify a location for the file to be saved to.

This is an executable file, so once it has downloaded, double click to run and install it.

The Windows operating system will be determined, as will the correct driver for your system.

A Windows  $\ensuremath{\text{CMD}}$  screen will show the install by a series of progressing dots.

As the driver nears the end of it's installation procedure, the CMD screen will close and the **Taskbar** will show two messages:

The first will show that the driver has found new hardware and a USB port has been detected.

Found New Hardware
 Your new hardware is installed and ready to use.
 17/12/2008

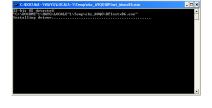
🔱 Found New Hardware

USB Serial Port

The second will show that it is ready to use.

You can now install the 4081 control software.





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#### 4081 Software

The install procedure is the same, regardless of whether the software is installed on a standalone PC or on a Pro Tools PC.

Double-click the **Setup** icon and the install will begin.

► Click Next.

Setup - 40E1 Remote Mic Pre-May Controller
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 Setup - 40E1 Remote Mic Pre-May
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 generated Mic Pre-May Mich Pre-May Mich Pre-May Mich Pre Setup - 40E1 Remote Mich Pre Setup - 40E1 Remote Mich Pre Setup - 40E1
 Setup - 40E1

Welcome to the 4081 Remote Mic Pre-Amp Controller Setup Wizard This will instal 4081 Remote Mic Pre-Amp Controller v1.0 on war concoder.

Next> Cancel

Click Next to continue, or Cancel to exit Setup.

> Click I Accept the Agreement.

If you select **I Do Not Accept The Agreement**, the install procedure will terminate.

📕 Setup - 4081 Remote Mic Pre-Amp Controller 📃 🗖 🔀				
Information Please read the following important information before continuing.				
When you are ready to continue with Setup, click Next.				
Mic Line Control 4081 Version 1.00 10th December 2008				
Allows the semicle control of 4051 units				
( <u>B</u> ack <u>N</u> ext) Cancel				

- A summary of the software development will be shown.
  - ► Click **Next**.

elect Destination Location Where should 4081 Remote Mic R	Pre-Amp Controller be installed?
Setup will install 4081 Re	emote Mic Pre-Amp Controller into the following folder.
To continue, click Next. If you wo	uid like to select a different folder, click Browse.
C:\Program Files\MicLineControl	Beowee
At least 9.9 MB of free disk space	is required.

📉 Setup - 4081 Remote Mic Pre-Amp Controller
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Stat Menu folder. To continue, click Next. If you would like to select a different folder, click Brower.
4001 Remote Mic Pie-Amp Controle
< <u>Back</u> Cancel

Select the location to install the software to. It is recommended you leave this set to the default location.

► Click Next.

You will be asked where you wish to place the programme on the **Start** menu.

 Either select another destination or leave it at default location (recommended).

Y	Setup - 4081 Remote Mic Pre-Amp Controller
	Select Additional Tasks Which additional tasks should be performed?
	Select the additional tasks you would like Setup to perform while installing 4081 Remote Mic Pre-Amp Controller, then click Next.
	Additional icons:
	Create a desktop icon
	Create a Quick Launch icon
	< <u>Back</u> Next> Cancel

Setup - 4081 Remote Mic Pre-Amp Contro

Dick Instal to continue with the installation change any retilings. Destination location: C.VProgram Files/WicLineControl4081 Start Menu folder: 4081 Remote Mic Pte-Amp Controller

eady to Install Setup is now ready to begin installing 4081 Remote Mic Pre-Amp Controller on you concounter

on, or click Back if you want to review or

(Back Instal Cancel

A

- Click these options if you wish to have a Desktop icon or a Quick launch icon for the installed application.
- ► Click Next.

#### Click Install.

Setter - 4001 Remote Mic Pre-Amp Controller

Installing

Reas work wis Setue radial 4001 Rounds Mic Pre-Amp Controller on your

Extending Res.

CVProgram Flex/MicLanControl400140081\_User\_Merick\_linit.pd

Catcoll



The software will start to install, with a progress bar indicating how far it has progressed

> Click Finish.

If you wish to launch the programme at this point, click the **Launch 4081 Remote Mic Pre-Amp Controller** option before clicking **Finish**, and the programme will open.

The first time the software is opened, you will need to set the Com Port number so that communication can be established.

See chapter on the **Setup/Test** page to set this.

#### Standalone Control Setup – PC

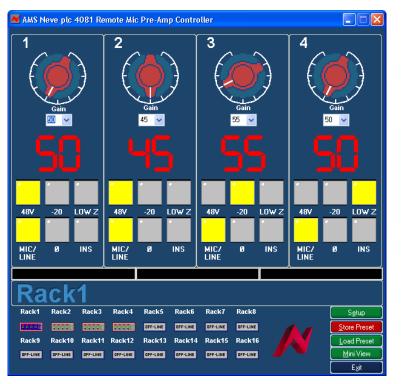
The software is launched from Windows Start Menu / Programs / 4081 Remote Mic Pre-Amp Controller.

(Also at this location is the User Manual plus the option to uninstall).

As the software opens, it automatically detects the presence of connected racks and shows at the bottom of the screen how many racks have been detected.

Once the control software is running, a small Neve icon will appear in the Windows taskbar.

This will either be displayed in green if the MIDI is running, or in red if it is not.



As shown left, four racks have been detected, yet it is the settings for the first rack that are currently displayed (the icons for the other 3 racks are greyed out).

Select the rack you wish to display the settings for by clicking on the icon underneath Rack1, Rack 2 etc.

The screen will be updated with any changes made through the modules' front panels, and likewise, the units front panels will be updated with any changes made on screen.

 The Gain can be set by selecting the Gain value from the pulldown menu (if this value is out of range, the selection will remain unchanged).

The Gain value for Mic and Gain value for Line will be remembered for each, so that swapping between the Mic/Line selection will show the correct gain value.

The Phantom, Pad, Phase, Impedance, Mic/Line selection and Insert can all be set by clicking on the appropriate button on-screen (Phantom, Pad and Impedance can only be selected if Mic is selected first).

The icons at the bottom of the screen indicate how many remote racks are connected.

The rack indicated by the red outline is the one currently controlled from (and displayed on) the upper part of the screen.

To select another rack, click on it's icon and the red outline will move to indicate that the screen is now displaying parameters for that rack.

You cannot select any unit that is currently displayed as being Offline.

The settings can be saved and recalled independently using the **Store Preset** and **Load Preset** buttons that launch conventional Windows **Save** and **Load** dialogues (see below).

These Stores will save all the control settings of all the attached racks, not just for the currently displayed rack.

#### Setup / Test

#### Important Note

When the **Setup / Test** screen is open, any changes made on the front of the unit will not be sent to the on-screen display shown behind the Setup screen.

This can result is mis-matches between what is selected on the unit, and what is displayed on-screen.

FOR THIS REASON, PLEASE DO NOT MAKE ANY CHANGES TO THE SETTINGS ON THE FRONT OF THE UNIT WHEN THE SETUP SCREEN IS OPEN.

The Setup screen allows you to test that the unit IDs are set correctly, and also fully configure the software.

As can be seen below, four 4081 units have been detected, as the version of firmware is shown next to each of these units.

▶ To test the ID of each unit, click the relevant **Test** button.

This will flash all of the **Phase** buttons once on that particular unit, and you will hear the units internal relays click as this happens.

Please note that if you wish to change a units ID with the dip switches, you will need to power cycle the unit after doing this so that the new ID number is resent to the software.

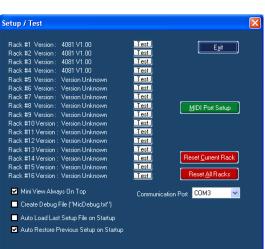
#### **Communications Port**

After installing the software, you will need to set this before control can be started.

This is usually set to COM 3 (depending on your computers particular hardware configuration).

Please note the communications port has been set, and when the unit has been switched off and back on again, the 4081 unit must switched on **before** the software is started.

If this is not observed, the software will fail to find a valid port and will default back to being Port 1 again. This will require the correct port to be reselected again.



#### **MIDI Port Setup**

Please see section on Pro Tools Control.

#### Reset Current Rack / Reset All Racks

 Click either of these two buttons to either reset the currently selected rack, or reset all the detected racks back to default values (both Gains set to minimum values; all switches set to Off)

Please note that the commands to Reset will not be sent until **Exit** is clicked and the **Setup** page closes.

Once the Setup screen is closed, that is when the Reset command will be sent to the unit(s).

#### Checkboxes

#### Mini View Always On Top

With the Mini View selected from the Main screen, a cut-down version of the Settings screen will be displayed instead.

- Ticking this option ensures that it is displayed on top of all other Windows screens that may be open.
- With this option unticked, the screen can be placed behind other Windows screens that may be open.

In all operational aspects, this screen is identical to the full-size screen except for:

- Click << or >> to step through the racks in numerical order (the display will reflect which rack is being displayed and whether it is offline/online).
- Click the Maximise button to restore the screen back to it's full size.

For units that are offline, the large Gain display will be absent.

#### **Create Debug File**

This option is for AMS Neve R&D Dept only and has no operational effect.

#### Auto Load Last Setup File On Startup

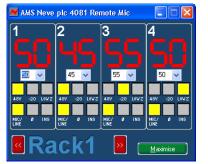
With this option ticked, when the control software is opened, the last Store file that was loaded will be reloaded again.

**NB:** If the settings on the front of the unit have changed in the meantime, then these changes will be overwritten with the settings from the Store file when the software opens.

#### Auto Restore Previous Setup On Startup

With this option ticked, when the control software is opened, the settings of all the attached units as they were when the software was closed will be reloaded again.

**NB:** If the settings on the front of the unit have changed in the meantime, then these changes will be overwritten when the software opens.



Store Preset	
	When selected, a standard Windows Save dialog will open.
	This allows you to take a snapshot of the settings of all the racks that are currently connected and save it to a desired location.
	This file is global, ie it takes a snapshot of all controls for all the connected racks.
	There is no limit to the number of preset files that can be created.
	The Preset file will have a <b>.mic</b> suffix.
Load Preset	
	<ul> <li>Once selected, opens a standard Windows Load dialogue, so that the files created above can be loaded back to the units.</li> </ul>
	The settings are global, ie there is nothing to set or select before the settings are impacted on the attached units.
	<ul> <li>Select the file to load and then click Open.</li> </ul>
	All of the attached racks will be reset according to the settings held in the selected file, and the filename will be displayed on the title bar.
	This will be displayed until another file with a different name is loaded, whereupon the filename will be refreshed.
Mini View	

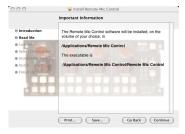
Please see above.



#### Installing the software – Mac

If you are installing this software over a previously installed version, you <u>MUST</u> uninstall the previous version first before you replace it with the newer version.

Welcome to the Remote Mic Control Installer		
9 Introduction	Welcome to the Mac OS X Installation Program. You will be guided through the steps necessary to install this software.	
Read Me		
License     Select Destination		
Installation Type		
nistali		
Finish Up		
o Pilisii up		
and the second s	CORRECT CORPORE STATEMENT	



The **Information** screen will display where the software will be installed

> Click Continue.

Install Remark Mic Cantel
 I

The License Agreement screen will open.

> Click Continue.

You will be asked to confirm that you have read the agreement. Click **Agree.** 

If you click **Disagree**, the Install procedure will terminate.

You will be asked to select a location to install the software to.

 Click on Macintosh HD as shown left, so a green arrow is placed on the drive on-screen (depending on the number of drives in your system, this may be done automatically for you).

> Click Continue.

The install procedure below is for Mac software version 10.4 or later.

 At any point in the install, you can return to the previous screen by click **Back**.

If you have a different version of software installed, there may be subtle differences on the screens shown below, but the basic install is still the same.

 Double click on the icon called **Remote Mic Control.pkg** and the install program will open with the **Welcome** screen.

> Click Continue.

on the Mac.







Go Back Close

> Click **Install** to continue, and the software will start to be installed.

Once installed, a confirmation screen will report it has been installed successfully.

Click Close.

Once installed, a program called **Remote Mic Control** will be placed in the **Applications** folder.

The programme can either be run from there, or dragged onto the Dock and run from there.

Operationally, there is no difference between controlling the 4081 units from a Mac or a PC.

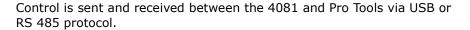


#### **Pro Tools Control Setup**

Depending on how your Mac is configured, you may need to enable the **USB** port in **Setup / Communication**.







The first 4081 unit needs to have the USB / RS485 switch on the rear of the unit set to USB (plus a USB cable from the unit to the PC [or Mac]). Subsequent units in the daisy-chain, need to have this switch set to RS485 (plus the RS485 cable needs to connect these units together).

> Open the **Remote Mic Control.app** application.

This will appear either as an icon on the desktop or can be accessed from the **Applications** folder.

- > On the main page, click **Setup** and the **General** screen will open.
- > At the top of the screen, click **MIDI**.
- In both upper displays, click the Midi In and Midi Out you wish to link and then click Link Port.

The linked **In**s and **Out**s will appear in the lower window.

- Repeat for as many midi ports you wish to link. These midi streams must match those set in Pro Tools.
- ► Under the lower window, click **Start Midi**.

The **Start Midi** button will now say **Stop Midi** to indicate that midi information is being sent and received.

- If you need to set further links (or to use the **Remove** button to cancel any of these links), you will need to click **Stop MIDI** before doing this.
- ▶ From the **MIDI** menu, select **MIDI Setup**.

The **Pre MIDI Port Setup** screen will open, showing the available racks.

Click the Sort button.

Two information screens will be displayed telling you that it may take up to 16secs to detect all the connected racks, and that you should click **OK** to any messages saying 'failed to detect' that might appear in Pro Tools.

> Click **OK** to both of these and the mapping procedure will take place.





Midi ports will be mapped to the available racks and displayed, colour coding the IN and OUT fields:

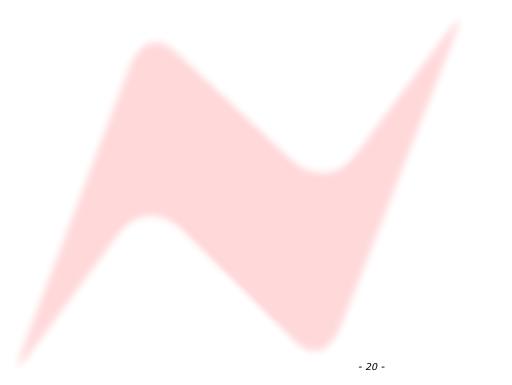
Red	Unavailable Input
Blue	Available Input
Green	Available Output

- ► Click **81 Setup** at the top of the screen.
- > Click **MIDI Rack Setup** and the rack display page will open.
- > Click the **Reset** button if you want the racks to be reset.
- ► Click the **General** button.
- Ticking the Auto Load Last Setup File On Startup option will cause the last saved or last loaded system setup to be reloaded when the software is next started.

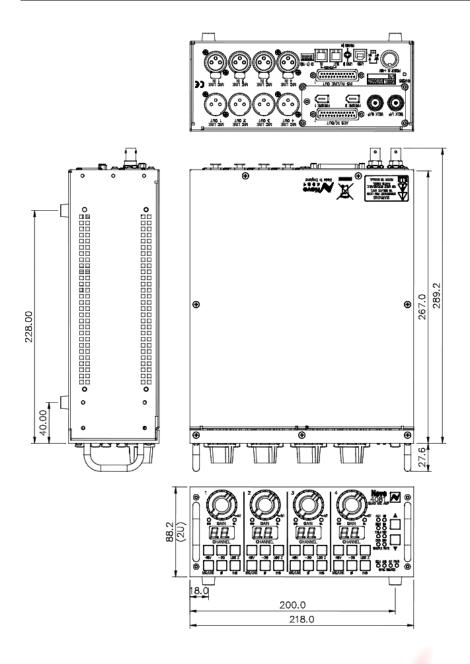


# **Configuring Pro Tools**

Please refer to your Pro Tools documentation on how to configure Pro Tools.

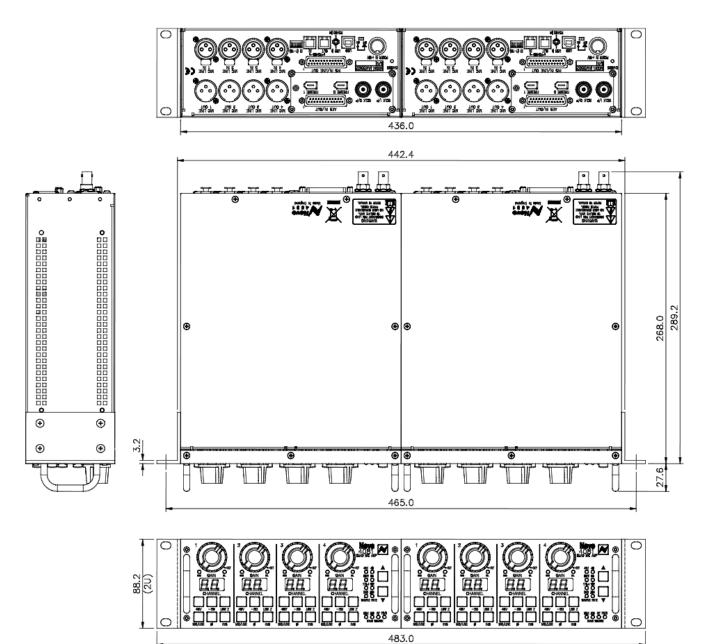


# Dimensions: single unit



- 21 -

# Dimensions: 2 units for rack-mounting



(19" RACK MOUNTING)

# Technical / Physical Information

Dimensions

19" Rack Mount	Width mm (inches)	Height mm (inches)	Depth mm (inches)
2 units plus fixing brackets	218 (8½)	88.2 (3½)	267 (10½)

# Power Requirements

External Power supply Rated Voltage	100 – 240V AC	
External Power supply Rated Frequency	50 - 60 Hz	
External Power supply Rated Current	1.9A Max	
Fuse (inside the 4081 unit):		
Input voltage	48V DC	
Fuse rating / type	1A (20mm x 5mm)	
Location	FS1	

Mains Power

The power supply is universal input type and therefore no mains operating voltage setting is required.

# **Audio Specification**

Mic Input	XLR input, Z in 1Kohm @ 1kHz Gain +20 dB to +70 dB in 5dB steps	
Maximum mic input level (with Pad)	+24dB	
Outputs	Max +26dB into 600 ohms Z out 50 ohms +/-5% @ 1kHz, balanced	
Distortion	<0.07% for 20dBm output from 50Hz to 10kHz @ 60dB Gain	
Equivalent Input Noise	>-123dBm 20Hz to 20kHz <mark>@60</mark> dB Gain	
Line Input	Z in 50k ohm, unity ga <mark>in, ele</mark> ctronically balanced	

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