

Neve 8803 Dual EQ User Manual

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For your own safety and for the protection of others please observe the following safety instructions:

- Read these instructions.
- 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.
- Only use accessories specified by the manufacturer.
- Unplug when unused for long periods of time.
- Refer all servicing to qualified personnel only.

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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.

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Health & Safety Notice	2
1 – Introduction	4
2 - Front Panel Controls Input Section Filter Section	5 5
3 - EQ Section. EQ Switch Low Frequency Band Low Mid Frequency Band High Mid Frequency Band High Frequency Band	6 6 7 7 7
4 - Rear Panel. Audio Connections. Electrical Connections. Unit Specifications.	8 8 9
5 - Recall Software. Installation for PC. Installation for Mac.	.10 10 12
6 - Firmware Upgrades Selecting a File for Transfer File Downloading Corrupted or Old Firmware	.13 13 14 14

7 – Block Diagrams

8803

1 – Introduction



The 8803 is a Dual Equaliser in a 1U rack mounting box.

Each of the two independent audio paths features high and low pass filters and four bands of EQ.

8803 settings may be stored and recalled via USB using the Recall software.

Up to sixteen 88 series units may be connected to a Recall system simultaneously in any combination.

When connecting to a PC (or a Mac), it should either be connected directly via USB or via a powered USB hub, **not** a passive hub.

2 - Front Panel Controls



On/Off

The Neve Logo Switch on the right hand side of the unit switches the unit on and off.

Input Section



Input trim

Sets the level of the input signal. The trim range is from -20dB to +20dB and can encompass signals from sources referenced to +4dBu or to -10dBV.

Signal led (yellow)

When lit indicates that a signal is present at the unit input. The trigger level is -30 dBu.

Clip led (red)

When lit indicates that the signal is at 25dBu and there is danger of clipping occurring.

The signal level is monitored at three stages:

- Input pre-trim;
- Input post-trim;
- Output.

The LED is triggered by any one of these levels reaching 25dBu.

Filter Section



High Pass Filter

The high pass filter has a 12dB per octave (20dB per decade) slope and a frequency range from 30Hz to 300Hz.

It is switched into circuit by pressing the **Hi Pass** frequency control. The associated led will light.

Low Pass Filter

The low pass filter has a 12dB per octave (20dB per decade) slope and a frequency range from 1.5kHz to 18kHz.

It is switched into circuit by pressing the **Lo Pass** frequency control. The associated led will light.

3 - EQ Section

EQ Switch



The square EQ switch beneath the input leds activates the EQ section.

When lit, all four bands of EQ are in circuit. When un-lit all four bands of EQ are bypassed.

This switch does not bypass the filters.

Low Frequency Band



The **LF Gain** control sets the cut or boost for the low frequency band of EQ with a range of +/-18dB.

Pressing the **LF Gain** control switches the Low Frequency EQ band between **Bell** and **Shelving** modes. A led lights to indicate when **Shelving** is selected.

The **LF Hz** control sets the low frequency between 33Hz and 440Hz. When the LF EQ band is set to **Bell**, pressing the **LF Hz** control switches the band between **Low** and **High** Q.

A led lights to indicate the selection of High Q. Low Q is 0.7 and High Q is 1.8.

When the LF EQ band is set to **Shelving** mode, pressing the **LF Hz** control switches between **Standard** shelving mode and **Resonant** shelving mode.

A led lights to indicate the selection of Resonant shelving.

In **Standard** mode the selected frequency will be the +/- 3dB point.

In **Resonant** mode, when boosting a slight extra lift occurs in frequencies around the selected frequency, when cutting a slight extra dip occurs around the selected frequency. This has the effect of emphasising the selected frequency.

Low Mid Frequency Band	
	The Lo Mid Gain control sets the cut or boost for the low medium frequency band of EQ with a range of +/-18dB.
	The LMF Hz control sets the low medium frequency between 120Hz and 2kHz.
	The Lo Mid Q control adjusts the Q continuously variable between 0.3 and 7.
High Mid Frequency Band	
	The Hi Mid Gain control sets the cut or boost for the high medium frequency band of EQ with a range of +/-18dB.
	The HMF Hz control sets the high medium frequency between 800Hz and 9kHz.
	The Hi Mid Q control adjusts the Q continuously variable between 0.3 and 7.
High Frequency Band	
	The HF Gain control sets the cut or boost for the low frequency band of EQ with a range of $+/-18$ dB.
	Pressing the HF Gain control switches the High Frequency EQ band between Bell and Shelving modes. A led lights to indicate when Shelving is selected.
	The \mathbf{HF} \mathbf{Hz} control sets the high frequency between 1.5kHz and 18kHz.
	When the HF EQ band is set to Bell , pressing the HF H z control switches the band between Low and High Q. A led lights to indicate the selection of High Q. Low Q is 0.7 and High Q is 1.8.
	When the HF EQ band is set to Shelving mode, pressing the HF Hz control switches between Standard shelving mode and Resonant shelving mode. A led lights to indicate the selection of Resonant shelving.
	In Standard mode the selected frequency will be the +/- 3dB point. In Resonant mode, when boosting a slight extra lift occurs in frequencies around the selected frequency, when cutting a slight extra dip occurs around the selected frequency.
	This has the effect of emphasising the selected frequency.



4 - Rear Panel



USB

The USB socket is a Type B connector used to connect the 8803 to a PC or Mac for Recall store and recall of unit settings.

Audio Connections

Audio Inputs

The input combo socket for each channel accepts input signals from either male XLR or male $\frac{1}{4}$ " jack connectors. Connection can be balanced or unbalanced on jack and XLR.

Audio Outputs

Separate male XLR socket and female ¼" jack socket for each channel provide simultaneous output to female XLR and male jack connectors. Connection can be balanced or unbalanced on jack and XLR.

Electrical Connections

Technical Earth Switch

The grounding of the unit can be set to two different points:

- The mains earth from the power supply, or
- The studio technical earth via the **Chassis** screw on the back of the unit.

With the switch in the **Off** position the chassis of the unit is connected to the mains earth via the power supply.

With the switch in the **On** position the chassis of the unit should be connected to the studio technical earth using the **Chassis** screw on the back of the unit.

For safety reasons the chassis is NOT disconnected from the main Earth but is connected through a filter (a 10 Ohms resistor in parallel with a 680nF capacitor).

!!!WARNING!!!! Connections to the technical earth and changes to the unit grounding should only be carried out by qualified personnel.

Fuse

The removable fuse holder houses a 1.6 AT fuse

Power DIN socket

The 8 pin DIN socket should only be used to connect the power supply provided with the 8803 unit.

PLEASE NOTE: for technical reasons the orientation of the socket is the opposite way up to normal. The "top" of the DIN connector will therefore be underneath. It is not possible to connect the plug the wrong way up.

Unit Specifications			
Audio Specifications:			
Max Output Level	+26 dBu		
Frequency Response	+/- 0.3 dB 10Hz - 20kHz +/- 0.5 dB 10Hz - 35 kHz		
Distortion	<0.006 (10Hz to 20kHz using window of 10hZ - 80kHz)		
Noise	<80dB 20hz – 20kHz (Using measurement window of 10hZ - 22kHz)		
Input Impedance	>20k Ohms		
Output Impedance	50 Ohms		
Dimensions:			
Width	48.2cm / 19 inches		
Height	4.4cm / 1 ³ / ₄ inches		
Depth	24cm / 91/2 inches (without power socket plugged in)		
Weight	2.5kg / 51/2 lbs		

5 - Recall Software



Neve Recall software allows settings from the 8803 to be stored on a PC or Mac and recalled for later use. Recall can be used for all the units in the 88 range including 8801, 8802, 8803, 8804 and 8816.

Multiple units can be stored and recalled together, up to a total of 16 units. When connecting via a USB hub, a powered hub must be used, **not** a passive one.

Please see the Recall Manual for further details. This may be downloaded from the Neve web site at:

http://www.ams-neve.com/html/downloads/index.php

Installation for PC



Insert the CD into the drive and the Set-up program should automatically launch.

If the application fails to launch automatically on CD insertion, then go to the CD Drive in Windows Explorer and double-click the **NeveRecall.msi** file or the **setup.exe file** the file to launch the Setup program manually.

The Welcome screen will launch.

Click Next.

🛃 Neve Recall
Welcome to the Neve Recall Setup Wizard
The installer will guide you through the steps required to install Neve Recall on your computer.
Click "Next" to continue.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized diplication or distibution of this program, or any portion of it, may result in servere civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel Previous Next

Click Next.

Neve Recall

 License Agreement

 Please take a moment to read the Scense agreement now. If you accept the terms below, clck "
 Agree", then "Next". Otherwise clck "Cancel".

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 Ind User Agreement.

 Sy using this software, you agree to AMS Neve's terms
 and conditions which are:

 U. Usage: You may make as many copies of this
 broorrow for your own use as you need, but you way not
 Olgo Not Agree

 Cancel Previow Next

Click I Agree, then click Next.

If you click **I Do Not Agree**, the install procedure will terminate.



Cancel Previous Next

The installation programme will select a default location for files to be copied and created to.

Click **Next**, or click **Browse** and then select another location.

Confirm Installation
100 × 100 ×
The installer is ready to install Neve Recall on your computer.
Click "Next" to start the installation.
Cancel Previous Next

Click **Next** to start the installation.

🛃 Neve Recall			
Installing Neve Recall			
Neve Recall is being installed.			
(******************			
[Çancel	Previous	Next

The install will start and file progress will be shown.



Click Next.



Once the install has successfully completed, click **Close**.

The software will now be ready to use, and will be accessible from **Start Menu / Programs / Neve Recall / Neve Recall**, or from the **Recall** icon on the Desktop.

Installation for Mac

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Insert the CD containing the software into the Mac, and the install programme will launch automatically.

Click Continue.

Select the location where you wish the software to be installed to.

Click Continue.



Click **Upgrade**, and the software will start to install.



The progress bar will show the state of the installation. Once completed, click **Close**.

The software is now ready to use.

6 - Firmware Upgrades

	should be installed.
Interest Interest	 Upgrading your software is a simple process with on screens prompts to guide you. Start the Recall software. On the main screen, right-click the window title bar (Mac users select Recall) Click Upgrade Firmware. Select the file to transfer.
Update Finnware Image: Constraint of the Unit to be Updated is Connected Image: Constraint of Characteria Connection of Other Units After Disconnection of Other Units Wait for 10 Seconds before Pressing OK Earcel	You will be prompted about removing other units.
Neve Recall ERROR!!! FROR!!! Invalid Unit Type(s) or More than ONE Unit Connected to USB. Please Try Again! <u>DK</u>	When updating units, only the unit that is being updated should be connected via USB. All other units should have their USB disconnected. Even if you are updating two units of the same model, they should be connected individually and updated in two separate operations. If more than one unit is connected via USB when the Update is about to be performed, a screen will prompt you to disconnect the other units.
Update 8803 Unit Firmware Select file with name down_8803_V hex Where V is the Version Number Update Takes Approx. 2 mins. Current Firmware on Unit: Version 2 Press OK to Continue Cancel QK	A prompt screen will confirm the current version of firmware, plus the software you should select for the unit. Click OK .
Selecting a File for Transfer	
Update 8803 Firmware: Select Hex File Look jr. Filmware down_8803_2.hex File name: down 8003_2	 The Open File dialog will appear. To locate the firmware data file, browse to the location: PC users: C:\Program Files\Neve Recall\Firmware Mac users: Applications\Neve Recall\Firmware The file names follow the format down_88XY_V.hex where XY are the last tage dialog of the 90 and tages (2016) and 100 an
	the last two digits of the 88 unit name (e.g. 16 for 8816) and V is

In order to get the most from your Neve unit, the latest firmware

Double click on the latest filename which matches your unit. If an incorrect file is selected the user will be prompted to select another

A typical filename could be **down_8804_5.hex.**

the software version number.

<u>Open</u> Cancel

file.

Files of type: 8803 Outboard Firmware Files (*.hex)

Dpen as read-only

File Downloading



Corrupted or Old Firmware

If the firmware is corrupted or the unit has an old version of firmware, a prompt will appear upon starting the Recall software to indicate that firmware must be updated before the user can proceed.

The process described above can then be followed to update the latest firmware.



	В	Issue	
	10/5/06	Date	
		C.N. No.	
		Checked	

10		1	1	12	!	
H 0/P 1 +4dbu						
Red Clip	+25.8dl	3u				
Grn Sig P	res -	30.0dBu				
Red (lin	+25.8d	R 11				
Grn Sig F	Pres -	30.0dBu				
.6A .y T1.0A			70\w/		lains I/P	
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