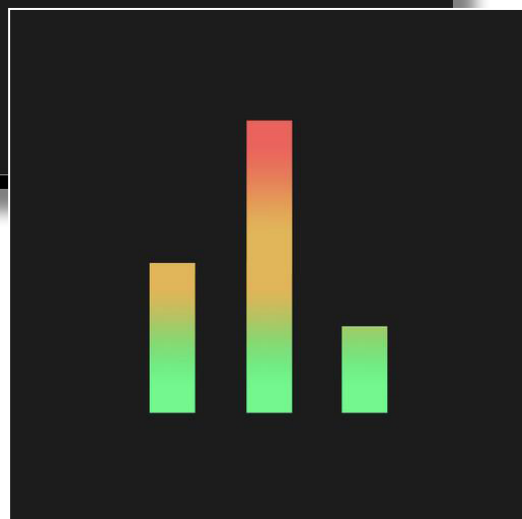


Focusrite Control

User Guide (*Clarett+ Edition*)



Focusrite®
focusrite.com

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INTRODUCTION

This is the User Guide for Focusrite Control, the software application developed for use with the Focusrite Clarett+ range of audio interfaces.

If you've become the owner of a Clarett+ interface, you'll need both this User Guide and the User Guide for your hardware. You can download the hardware User Guide from focusrite.com/downloads.

IMPORTANT

The Clarett+ range of interfaces comprise of four different models, three of which use Focusrite Control (Clarett+ 2Pre, Clarett+ 4Pre and Clarett+ 8Pre). The fundamental difference between these models lies in the number of inputs and outputs that each provides; plus the number of features that can be controlled directly from Focusrite Control.

In this User Guide, all screenshots are based on using a Clarett+ 8Pre, although all instructions are also applicable to Clarett+ 2Pre and 4Pre.

System Requirements

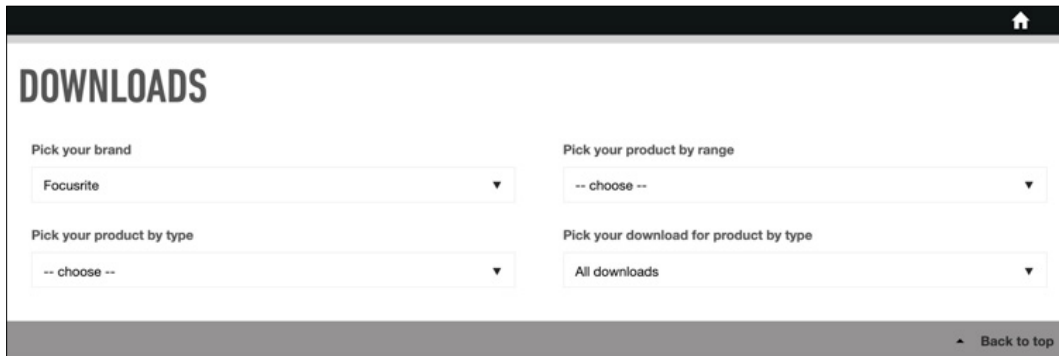
IMPORTANT

Please visit the following link for up-to-date information on computer and operating system compatibility for Focusrite Control and all Clarett+ products:

support.focusrite.com

Software Installation

Focusrite Control for Windows and Mac is available for download from the Focusrite website (focusrite.com/downloads).

A screenshot of the Focusrite website's 'Downloads' section. The page has a dark header with a home icon. Below the header, the word 'DOWNLOADS' is prominently displayed. There are four dropdown menus arranged in a 2x2 grid. The first dropdown is labeled 'Pick your brand' and has 'Focusrite' selected. The second is labeled 'Pick your product by range' and has '-- choose --' selected. The third is labeled 'Pick your product by type' and has '-- choose --' selected. The fourth is labeled 'Pick your download for product by type' and has 'All downloads' selected. At the bottom right of the form area, there is a link that says 'Back to top' with an upward-pointing arrow.

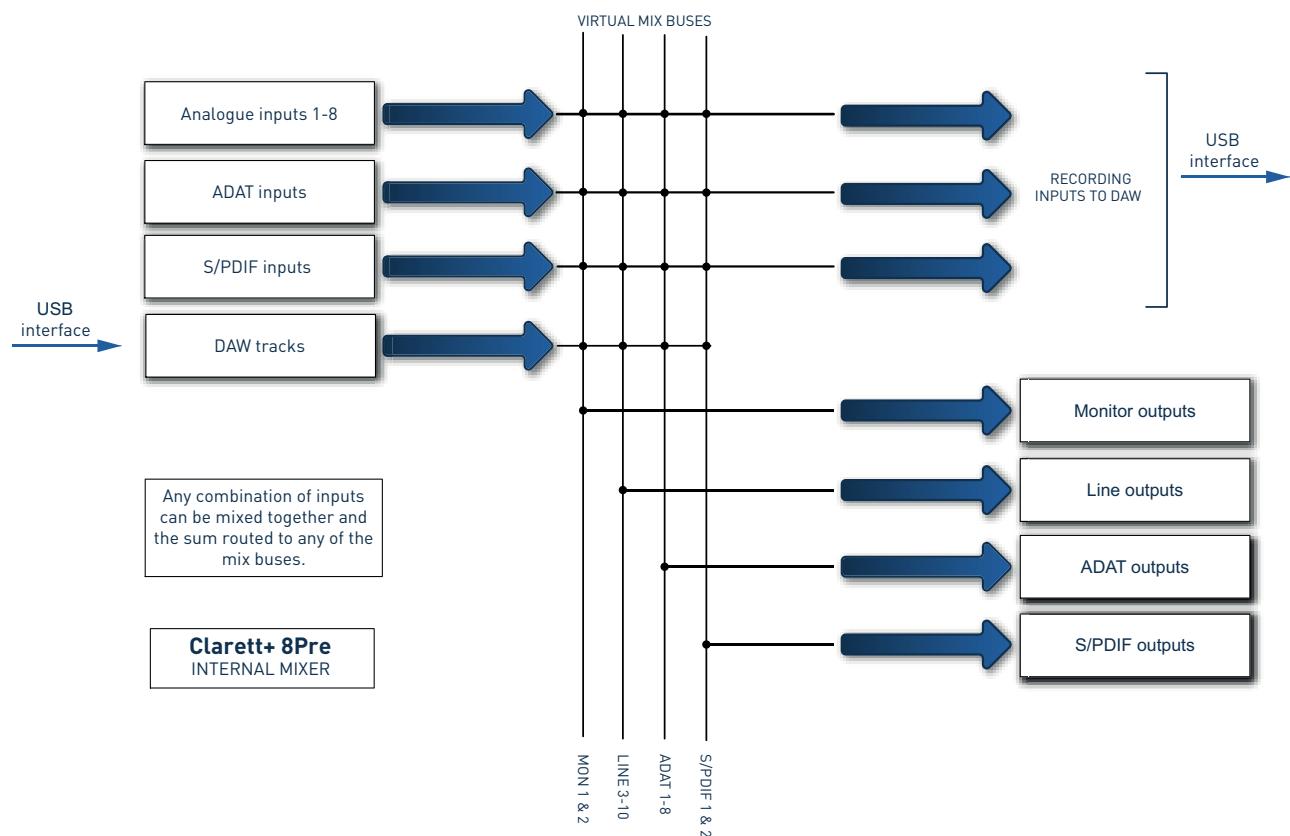
1. After picking your Clarett+ interface from any of the pull-down options, both Windows and Mac versions of Focusrite Control will be made available for download.
2. Download the desired version and install Focusrite Control. Follow all on-screen instructions.
3. If installing Focusrite Control for Windows, you will be prompted to restart your computer once the installation is complete.
4. After a restart, connect the Clarett+ interface to your computer with a USB cable.
5. Open Focusrite Control and it will connect to your Clarett+ interface.

The Clarett+ Mixer – Basic Principles

Your Clarett+ interface contains an internal audio mixer which allows you to create one or more mixes of the various audio sources in your system, and send them to the physical outputs of your interface. These sources include tracks you have recorded in your DAW as well as the sources connected to the interface's various physical inputs. Before starting to use Focusrite Control, it is a good idea to gain an understanding of the basic principle of this mixer.

The basic idea of an audio mixer will be familiar to most users: a large number of input signals are combined to a smaller number of outputs – often a stereo pair. On a traditional analogue hardware mixer, you will find a number of identical input channels in the form of vertical strips with faders and other controls, and switches on each channel let you decide where its signal is sent. This is called “routing”.

The mixer in your Clarett+ is no different – its inputs are the various physical inputs on the interface itself, **plus** signals from your DAW. The outputs are the interface's various physical outputs. The diagram below shows this principle using the Clarett+ 8Pre as an example:



IMPORTANT

The maximum mixing capacity for the Clarett+ range is 18 mono inputs to 10 mono outputs.

Mixer functionality is disabled at 176.4 kHz and 192 kHz.

Focusrite Control provides a visual representation of the mixer on your screen.

OUTPUT ROUTING PAGE



Installing Focusrite Control on your computer will place this icon on the dock or desktop.

Click the icon to launch Focusrite Control. You should see a screen similar to below:



NOTE

If, instead of the above, you get a warning message stating **No Hardware Connected**, this means that the computer has been unable to establish communication with the hardware.

In this case, please check:

- that the USB cable is correctly plugged in at both ends, and that the cable or connectors are not damaged in any way,
- that the Clarett+ interface is turned on.
- If you still see **No Hardware Connected**, then contact support.focusrite.com.

The green Sync 'LED' at the screen top left should be illuminated; this confirms the Clarett+ device is locked to a valid clock source. See page 28 for further information.

Configuring And Controlling The Mixer

NOTE

To help you use the software, Focusrite Control provides a set of tool tips; when you hover the cursor over any of the controls, a description of what the control does appears in the status bar at the bottom of the window.



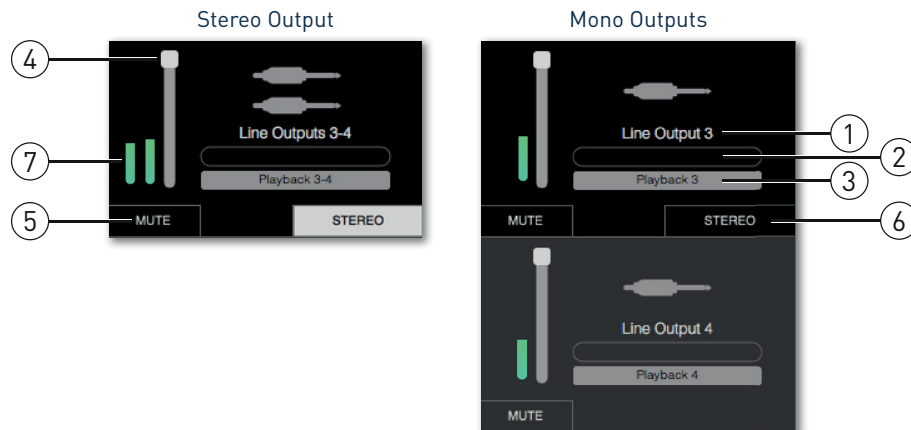
Focusrite Control has two pages – **Input Settings** and **Output Routing**. These are selected by the tabs at the top of the window. Most of the time, you'll work on the **Output Routing** page.

The **Output Routing** page is divided into three areas:

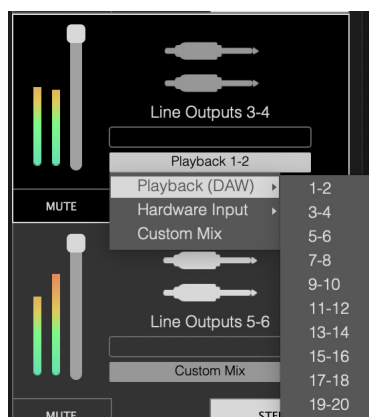
- **OUTPUTS** arranged vertically to the left.
- **HARDWARE INPUTS** to the right, occupying the upper half of the page.
- **SOFTWARE (DAW) PLAYBACK** to the right, occupying the lower half of the page.

The Output Section

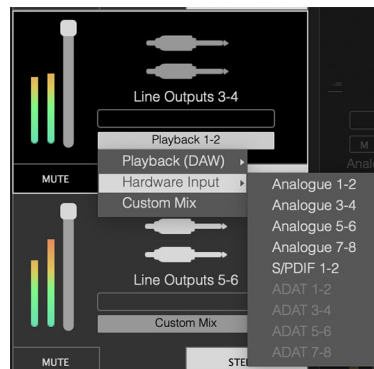
OUTPUTS has a vertical scroll bar; if your hardware interface has more outputs than can be fitted on the screen, scroll down to see the rest. Each output (or pair of outputs if in stereo mode) has its own tab, each of which has the following features:



1. Output identifier (e.g., **Line Outputs 3-4**) and icon – in addition to the name of the output, icons are used to aid identification: you'll notice speaker and headphone symbols as well as jack plug, phono plug and Toslink symbols.
2. Editable name – you can click this field and enter a name – i.e., what the output's connected to – of up to 11 characters.
3. Current source – this field will display the name of the signal feeding the output. In many setups, particularly when using Focusrite Control's presets, this will be by default, one input or a stereo pair of inputs. Clicking on the field opens a drop-down list letting you select:
 - **Playback (DAW)** – lets you directly route any of the DAW tracks to the output (in pairs when the output is stereo)



- **Hardware Input** – lets you choose any of the hardware inputs to your Clarett+ to route directly to an output. Caution: Do not choose this option if monitoring open mic signals through your monitors as you will cause a feedback loop.



- **Custom Mix** – lets you create a fresh mix of all available inputs (both hardware and those from the DAW) to the selected output. Note that this option is not available if five custom mixes have already been assigned.

You'll see as you change the source selection for an output, the right hand side of the window displays a graphic illustrating the routing. For simple one-to-one routings, the graphic looks like this:



4. **Fader** – use this to adjust the signal level at the output. Note that all output levels are set to maximum as a default (unity gain). If the fader “knob” is green, it means control of the output level is assigned to the physical **MONITOR** control on the Clarett+’s front panel. This assignment is made on the **Input Settings** page; see page 26.
5. **MUTE** – click this button to mute/unmute the output.
6. **STEREO** – assigns the output to be either one of a stereo pair or an individual mono output. In stereo mode, all output functions apply to both outputs forming the stereo pair.

7. Meters – A bargraph meter (two if configured for Stereo operation) is provided indicating the audio level at the output. A red audio overload icon appears when the output level clips. This icon can be cleared by clicking anywhere in the meter bar or selecting **Clear all meters** in the **File** menu.

As well as all the functions above, the Monitor Outputs also have one additional control, a **DIM** button. When active, the signal level is reduced by 18 dB.

The Input Section

The Input section is divided into two: **HARDWARE INPUTS** and **SOFTWARE (DAW) PLAYBACK**. The two halves of the Input area are where you control the inputs to your mix for the selected output.

It is important to remember you can create a different mix for each output, and you can have as many mixes as your interface's internal mixer allows. This is useful when recording a group of musicians, as it means each musician can have his/her own mix, personalised to their requirements (assuming there are enough headphones and headphone amps to go round!) The mixer whose input channels will be displayed is selected by clicking anywhere in the relevant output tab.

IMPORTANT

If you set an output to Custom Mix, the same channels will appear on every output with Custom Mix selected.

While the channels are the same; the fader levels, mutes and solos are independent to each output.

For some situations the simple one-to-one default routing Focusrite Control sets up (as in the previous example) will be adequate. This is where the outputs on your DAW are directly routed to the hardware outputs on your Clarett+ interface (i.e., no internal mixing within the unit). But in many cases, you will want to set up the mix yourself. To create a new mix, click the current source button in the Output tab for the output you want the mix to be fed to, and select **Custom Mix**. This will clear the current fixed routing for the output and display the Input mix area (this area will be empty):



You can now “build” the mixer for the selected Output by clicking on the two ‘+’ tabs. This will open a selection box: the **HARDWARE INPUTS** half of the area lists all the Clarett+’s physical inputs (see page 14 for details of available hardware inputs for your Clarett+ device), while in the **SOFTWARE (DAW) PLAYBACK** area, the selection box lists the available DAW tracks. You can repeat this process as many times as you like, adding channels up to the maximum capacity of your Clarett+ hardware. Note that you may need to resize the window or use the horizontal scroll bar when the number of channels starts to exceed the window size.

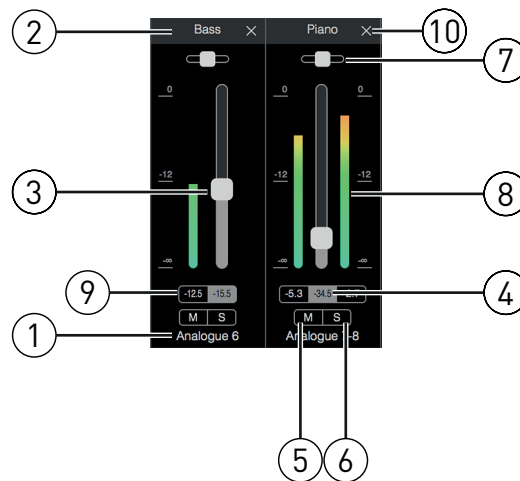


Note that in both boxes, each input is listed twice: individually (mono) and as half of a stereo pair. Selecting a stereo pair of inputs creates a stereo input channel.



In the example above, we might be doing an overdub: several DAW tracks have already been recorded, two additional tracks are going to be recorded and we wish to create a stereo mix for one of the musicians.

Each input channel has the following features:



1. Input identifier – this is the actual physical input to the channel.
2. Editable name – you can click this field and enter a name – e.g., the instrument in question – of up to 11 characters.
3. Fader – use this to adjust the level of the signal in the mix. Note that the default setting for all faders is 0 dB, while “fader max” is at +6 dB. Double-clicking in the fader will set the fader at 0 dB.
4. Fader value – a numeric readout of the current fader position.
5. **M** – click this button to mute/unmute the channel.
6. **S** – Solo button. Silences all other channels sent to that output and only plays the channel with Solo enabled.
7. Pan slider. This control is only available when the mix is being routed to a stereo output. Its default position is central, and the signal in the channel is then sent at equal levels to both outputs of the stereo pair. Moving the slider either way sends a higher signal level to one output than the other, thus making it possible to “position” individual instruments at a particular place in the stereo image. Double-clicking in the slider will return the control back to central position.
8. Signal level meter. This displays the signal level coming into the channel, i.e., pre-fade. It is scaled in dBFS units, with 0 dBFS at the top of the scale. 0 dBFS corresponds to digital clipping; levels should always be adjusted to avoid this situation. Stereo channels have two meters, one either side of the fader.
9. Peak level display – a numerical readout of the maximum signal level reached. Stereo channels have two displays.
10. Close – click on the cross to remove the signal from all custom mixes and the channel from the screen.

Hardware Inputs Available on Clarett+ Devices

Your Clarett+ interface provides a wide range of audio inputs, however the number available depends on what sample rate you are using (see page 27 for further details). Doubling the sample rate halves the number of ADAT channels available. The tables below provide details of what inputs are available to you when operating at different sample rates.

44.1 kHz - 48 kHz			
Input	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue input 1	Analogue input 1	Analogue input 1
2	Analogue input 2	Analogue input 2	Analogue input 2
3	Analogue input 3	Analogue input 3	S/PDIF input 1*
4	Analogue input 4	Analogue input 4	S/PDIF input 2*
5	Analogue input 5	Analogue input 5	ADAT input 1
6	Analogue input 6	Analogue input 6	ADAT input 2
7	Analogue input 7	Analogue input 7	ADAT input 3
8	Analogue input 8	Analogue input 8	ADAT input 4
9	S/PDIF input 1	S/PDIF input 1	ADAT input 5
10	S/PDIF input 2	S/PDIF input 2	ADAT input 6
11	ADAT input 1	ADAT input 1	ADAT input 7
12	ADAT input 2	ADAT input 2	ADAT input 8
13	ADAT input 3	ADAT input 3	
14	ADAT input 4	ADAT input 4	
15	ADAT input 5	ADAT input 5	
16	ADAT input 6	ADAT input 6	
17	ADAT input 7	ADAT input 7	
18	ADAT input 8	ADAT input 8	

* Optical S/PDIF input on the Clarett+ 2Pre.

88.2 kHz - 96 kHz			
Input	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue input 1	Analogue input 1	Analogue input 1
2	Analogue input 2	Analogue input 2	Analogue input 2
3	Analogue input 3	Analogue input 3	S/PDIF input 1*
4	Analogue input 4	Analogue input 4	S/PDIF input 2*
5	Analogue input 5	Analogue input 5	ADAT input 1
6	Analogue input 6	Analogue input 6	ADAT input 2
7	Analogue input 7	Analogue input 7	ADAT input 3
8	Analogue input 8	Analogue input 8	ADAT input 4
9	S/PDIF input 1	S/PDIF input 1	
10	S/PDIF input 2	S/PDIF input 2	
11	ADAT input 1	ADAT input 1	
12	ADAT input 2	ADAT input 2	
13	ADAT input 3	ADAT input 3	
14	ADAT input 4	ADAT input 4	

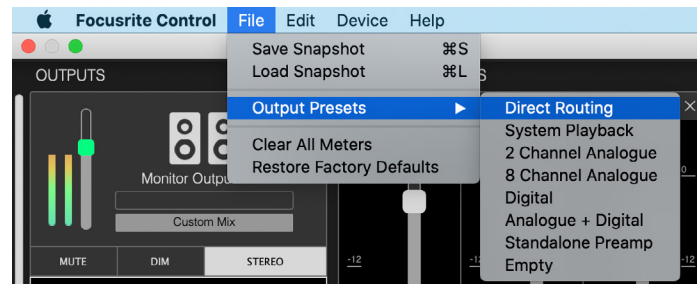
* Optical S/PDIF input on the Clarett+ 2Pre.

176.4 kHz - 192 kHz			
Input	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue input 1	Analogue input 1	Analogue input 1
2	Analogue input 2	Analogue input 2	Analogue input 2
3	Analogue input 3	Analogue input 3	
4	Analogue input 4	Analogue input 4	
5	Analogue input 5	Analogue input 5	
6	Analogue input 6	Analogue input 6	
7	Analogue input 7	Analogue input 7	
8	Analogue input 8	Analogue input 8	
9	S/PDIF input 1	S/PDIF input 1	
10	S/PDIF input 2	S/PDIF input 2	

Using Presets

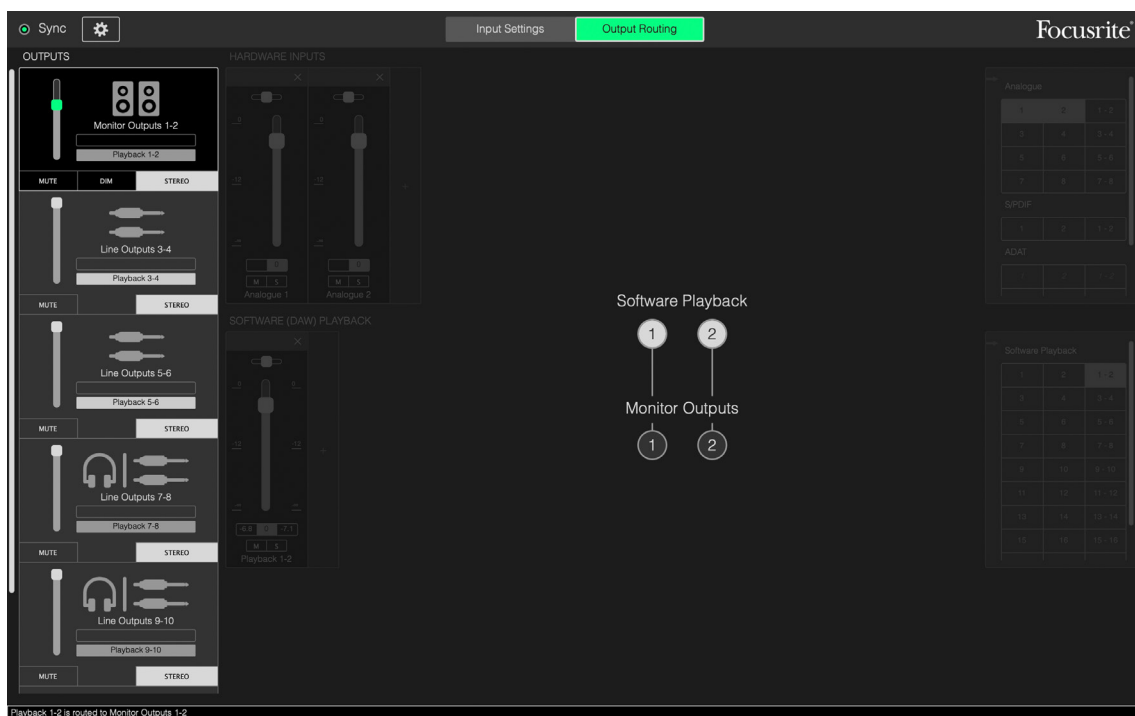
Focusrite Control comes with some useful Presets, which have been designed to get you started on a recording task as quickly as possible. Selecting a Preset configures the mixer for you, setting up various useful combinations of input channels.

Presets are selected from the File menu; select Presets from the drop-down list. The Presets available with the Clarett+ 8Pre are shown below:



Direct Routing

With complex mixing sessions, it is sometimes desirable to perform the final mix in a separate, physical mixing console. The Direct Routing Preset configures the Clarett+ for this task, as it routes DAW playback tracks in numerical order to all the available Clarett+ outputs.



Direct routing connections for the Clarett+ range are as follows:

44.1 kHz - 48 kHz			
DAW track	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue output 1	Analogue output 1	Analogue output 1
2	Analogue output 2	Analogue output 2	Analogue output 2
3	Analogue output 3	Analogue output 3	Analogue output 3
4	Analogue output 4	Analogue output 4	Analogue output 4
5	Analogue output 5	Analogue output 5	
6	Analogue output 6	Analogue output 6	
7	Analogue output 7	S/PDIF Out 1	
8	Analogue output 8	S/PDIF Out 2	
9	Analogue output 9		
10	Analogue output 10		
11	S/PDIF Out 1		
12	S/PDIF Out 2		
13	ADAT output 1		
14	ADAT output 2		
15	ADAT output 3		
16	ADAT output 4		
17	ADAT output 5		
18	ADAT output 6		
19	ADAT output 7		
20	ADAT output 8		

88.2 kHz - 96 kHz			
DAW track	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue output 1	Analogue output 1	Analogue output 1
2	Analogue output 2	Analogue output 2	Analogue output 2
3	Analogue output 3	Analogue output 3	Analogue output 3
4	Analogue output 4	Analogue output 4	Analogue output 4
5	Analogue output 5	Analogue output 5	
6	Analogue output 6	Analogue output 6	
7	Analogue output 7	S/PDIF Out 1	
8	Analogue output 8	S/PDIF Out 2	
9	Analogue output 9		
10	Analogue output 10		
11	S/PDIF Out 1		
12	S/PDIF Out 2		
13	ADAT output 1		
14	ADAT output 2		
15	ADAT output 3		
16	ADAT output 4		

176.4 kHz - 192 kHz			
DAW track	Clarett+ 8Pre	Clarett+ 4Pre	Clarett+ 2Pre
1	Analogue output 1	Analogue output 1	Analogue output 1
2	Analogue output 2	Analogue output 2	Analogue output 2
3	Analogue output 3	Analogue output 3	Analogue output 3
4	Analogue output 4	Analogue output 4	Analogue output 4
5	Analogue output 5	Analogue output 5	
6	Analogue output 6	Analogue output 6	
7	Analogue output 7	S/PDIF Out 1	
8	Analogue output 8	S/PDIF Out 2	
9	Analogue output 9		
10	Analogue output 10		

To use the Preset to its full extent with a traditional analogue console, a suitable ADAT-equipped D-to-A converter and a two-channel D-to-A converter with an S/PDIF input would be required. However, many modern digital mixers are able to accept ADAT and S/PDIF signals directly as well as analogue sources.

2 Channel Analogue

This is the Preset to use when using the Clarett+ as your analogue recording “front end”. The Preset configures the Clarett+’s routing with Analogue Inputs 1 and 2 available as **HARDWARE INPUTS** and DAW tracks 1 and 2 available as a stereo channel in the **SOFTWARE (DAW) PLAYBACK** section.

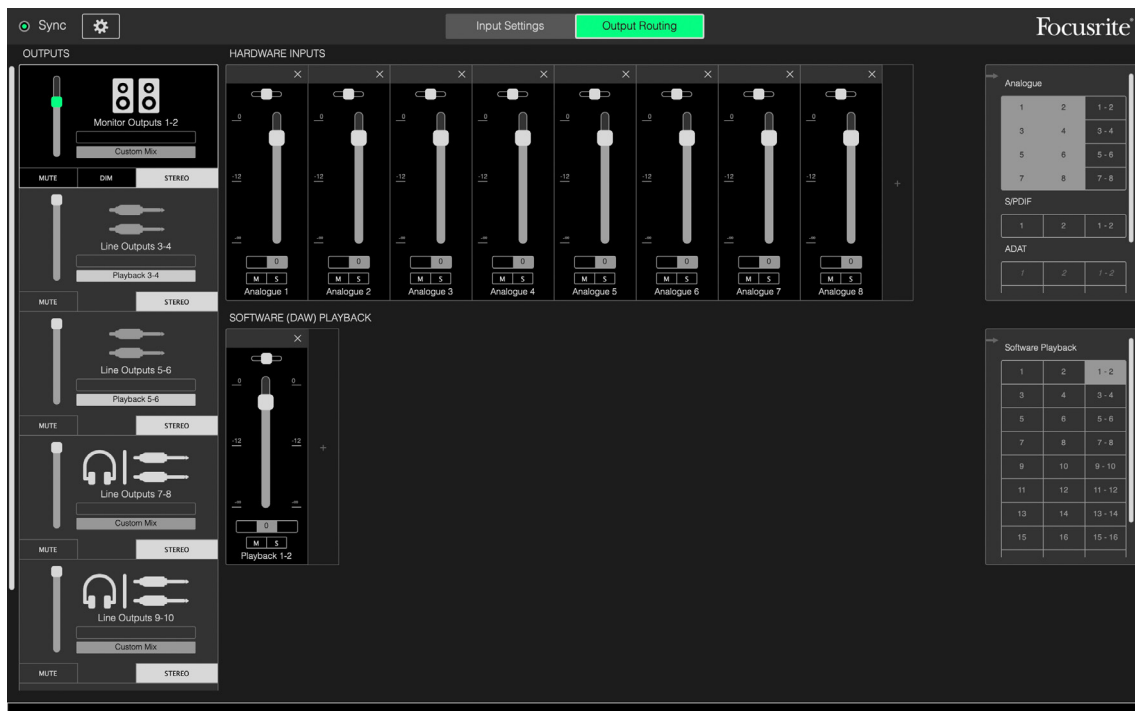
For example, on the Clarett+ 8Pre, the summed output of these input channels is routed to the Monitor Outputs 1 and 2, and also to Line Outputs 7 and 8, and 9 and 10, as a stereo pair in all cases. On this model, Headphone Outputs 1 and 2 follow Line Outputs 7/8 and 9/10 respectively, with their own front panel headphone levels controls. This setup is ideal for recording a guitarist and a vocalist to a drum track already recorded on the DAW, as it enables each to have an individual mix of the drums and each other.



All other Clarett+ outputs are sourced directly from the corresponding DAW playback tracks, as per the Direct Routing table on page 17.

8 Channel Analogue

Use this Preset as a starting point when recording a band. On the Clarett+ 8Pre, this Preset enables eight mixer channels, one for each of the hardware analogue inputs. DAW tracks 1 & 2 are also enabled as a stereo channel.

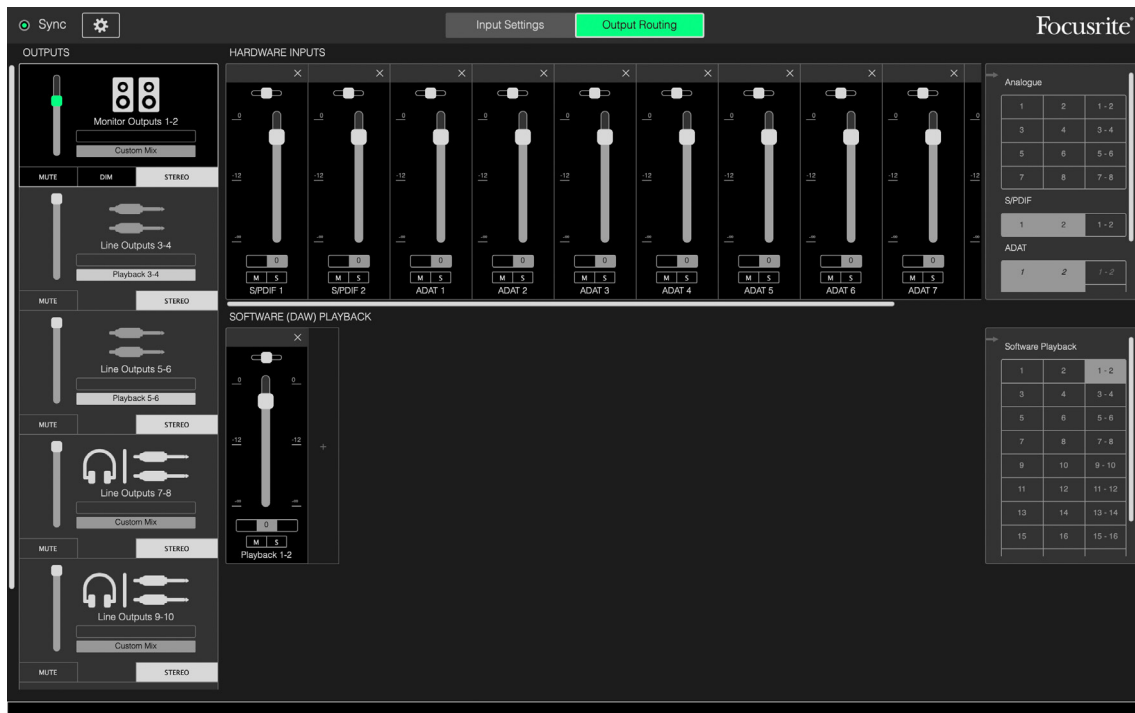


As with the 2 Channel Analogue Preset, the summed output of the mixer is routed to Monitor Out 1 and 2, and Line Outs 7 to 10 as a stereo pair.

All other Clarett+ outputs are sourced directly from the corresponding DAW playback tracks, as per the Direct Routing table on page 17.

Digital

This Preset is a useful starting point when using a separate ADAT-equipped microphone pre-amplifier such as the Focusrite Clarett OctoPre. When used with the Clarett+ 8Pre it enables ten digital input channels, eight sourced from the ADAT input port and two from the S/PDIF input. DAW tracks 1 and 2 are also enabled as a stereo channel. The sum of the inputs is routed to the same pairs of outputs as with the analogue presets described previously.



All other Clarett+ outputs are sourced directly from the corresponding DAW playback tracks, as per the Direct Routing table on page 17.

Empty

This may often be the most convenient Preset to use as it clears the existing mixer to allow you to start building your own configuration as required.

On the Clarett+ 8Pre, Monitor Out 1 and 2 and Line Outs 7 to 10 (paralleled as the headphone outputs) are set to receive a custom mix; all other outputs are sourced from individual DAW tracks, as with the other Presets.

Examples of Use

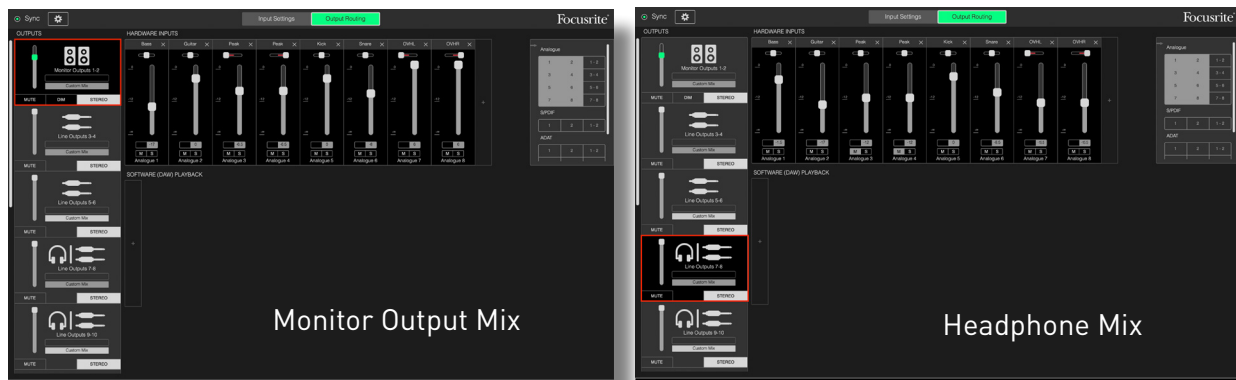
Recording and Tracking

Recording a band or recording yourself is the same process as far as Focusrite Control is concerned – the only difference is the number of mixer channels you'll have on screen.

Connect the instruments to be recorded to the Clarett+ interface. Each instrument or microphone will be routed to your DAW via the USB cable, and will be recorded - by default - on the track with the same number as its hardware input. Set the recording levels by adjusting the gain controls on the Clarett+ front panel. Your DAW will allow you to alter the track assignment if you wish.

Focusrite Control lets you create a monitor mix of everything being recorded. The mix you hear in your monitors or headphones can be any mix you want, and is completely independent of the signal levels being recorded.

All Focusrite Control channels start out with the fader position at zero, so you will hear a rough mix as soon as you have everything connected up. You can then tweak the mix to suit your requirements.



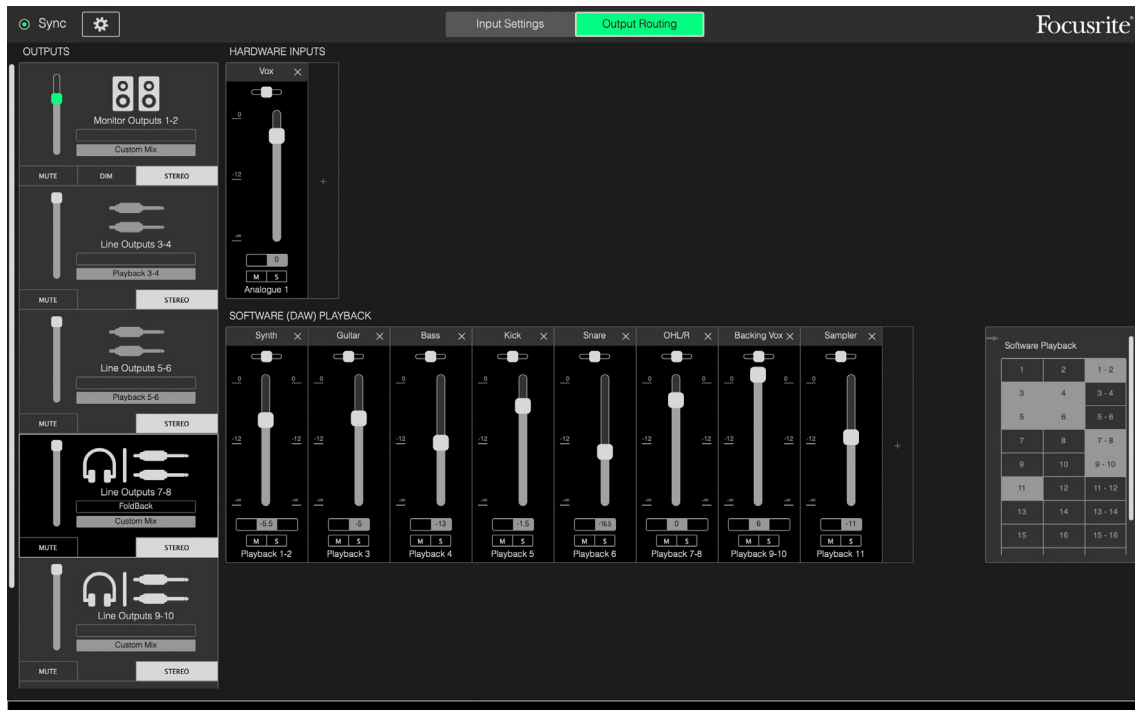
When you load any preset, the mix available at your headphone outputs will be identical to your main monitor mix. However, they are independent and are controlled separately. For example, if you want to use the headphones for a musician's mix, you can set up a different mix.

Select the output tab for the headphones (**Line Out 7-8** in the Clarett+ 8Pre example shown) and you can change the mix. You can create further mixes for other musicians by using additional Line Out tabs and selecting **Custom Mix**.

Recording and Overdubbing

Overdubbing is the process of adding additional instruments to a multitrack recording, listening to the tracks you've already recorded as you do so.

Focusrite Control is easy to configure for this operation.



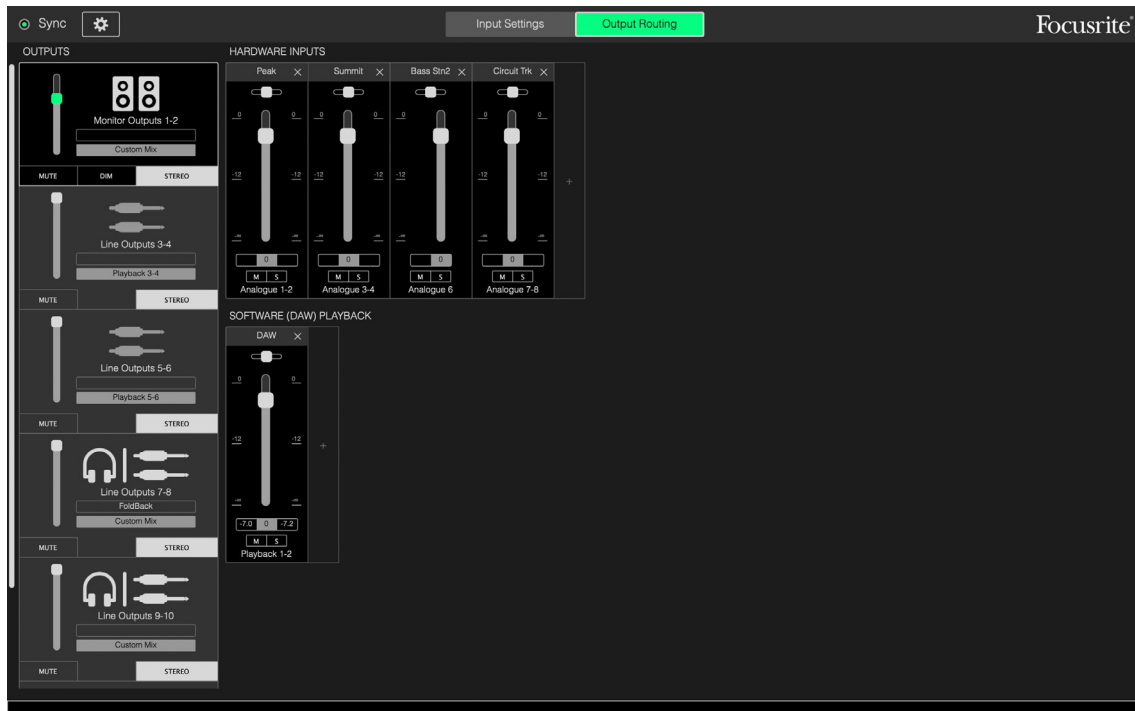
As with the Tracking example, the initial mix you hear from both the Monitor Outputs and Headphone Outputs will be a “rough” mix (faders all at zero) of all the tracks you’ve already recorded. You can tweak the mix you hear in your headphones to hear more or less of the instrument you’re overdubbing, or any other pre-recorded track(s), as you wish.

TIP: Any pre-recorded tracks are likely to be sourced from the DAW main output (1-2) which on Focusrite Control is **Software Playback 1-2**. If you wish to adjust the levels of pre-recorded signals for the musician then this can either be done in the DAW, or - in the scenario you do not want to change the mix in the DAW - can be sent out of separate outputs, enabling them to adjust the level within Focusrite Control.

Stand-alone mixer

Once the interface's internal mixer has been configured by Focusrite Control, that configuration is retained by the hardware even after you remove the USB cable and switch the unit off. This means you can make use of the Clarett+ in a live situation, without needing to connect a computer.

An example of this application would be as an on-stage keyboard mixer. Multiple keyboards can be connected to the Clarett's inputs, and mixed together to the Monitor Outputs. The relative levels of each keyboard can be adjusted from the front panel. You can then send a stereo signal to the sound engineer, rather than separate signals from multiple keyboards.



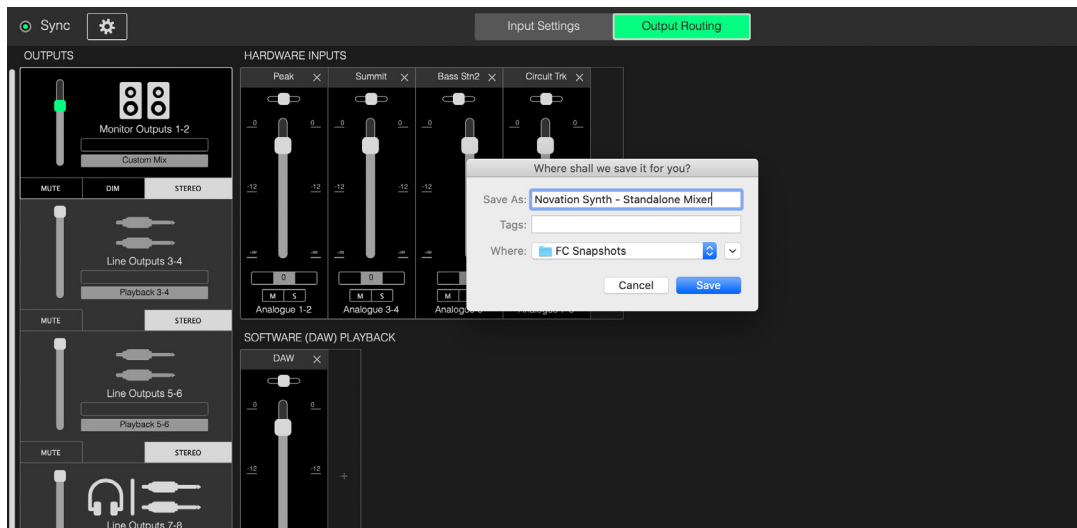
The setup shown above would configure the mixer as described above; because the Clarett+ retains its last configuration, the unit can then be switched off, and used at the venue as a stand-alone unit.

Snapshots

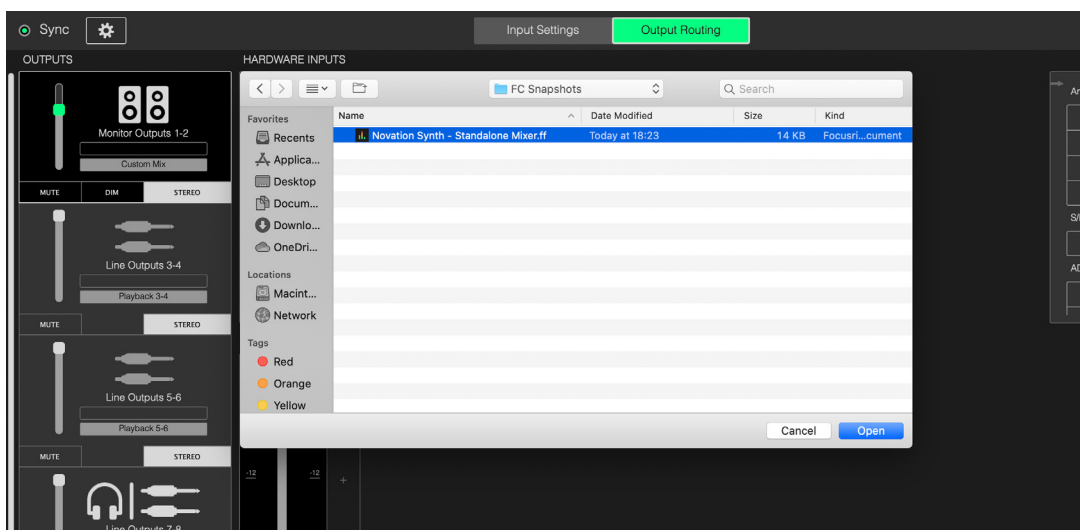
The mixer in your Clarett+ interface retains the last Focusrite Control settings at all times. However, you may wish to save your session settings – mixer layouts, fader, mute and pan settings, etc. – so you can get back to them at a later time, perhaps when working on a similar project or with a different compatible hardware device.

Focusrite Control includes a Snapshot facility for this purpose, which does just that – it takes a “snapshot” of the entire mixer and lets you save it on your computer for later recall.

To save the current mixer settings, click **File > Save Snapshot**.



The snapshot session file is saved with a *.ff file extension. To recall the session, click **File > Load Snapshot**, which opens a standard File Open box; navigate to the where you saved the file and open in the usual way.

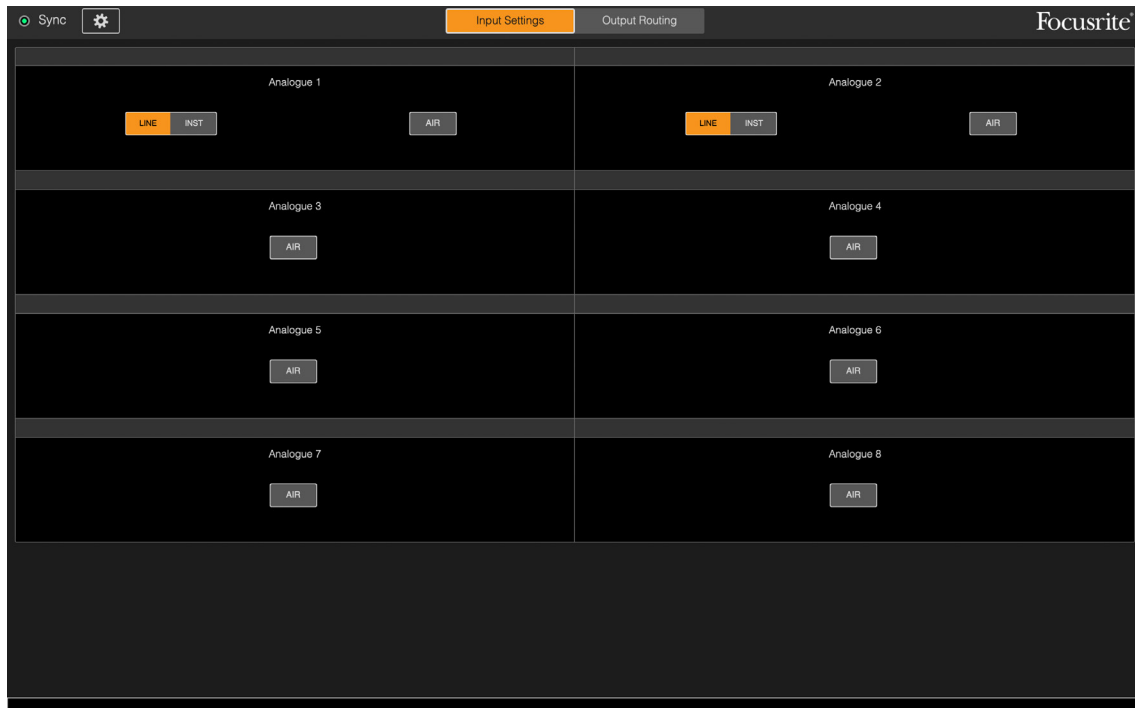


Your last used Clarett+ configuration is automatically retained in Focusrite Control and will be loaded back into your device when reconnected.

INPUT SETTINGS PAGE

Clarett+ interfaces have a variety of hardware functions operated from Focusrite Control, rather than by physical controls on the unit itself.

The **Input Settings** page gives you access to these functions. The page for the Clarett+ 8Pre looks like this:



If you have a different Clarett+ model, most of the functionality will be the same, but fewer switches may be visible because your interface has fewer channels.

Air

Each input channel of your Clarett+ interface has a switchable AIR function; this analogue circuitry emulates the classic Focusrite ISA110 preamp. See your Clarett+ User Guide for more details.

AIR can be switched in and out of circuit independently for each channel by clicking the AIR buttons. The LEDs on the unit's front panel will also confirm AIR has been selected for each channel.

Inst/Line

Inputs 1-2 on all Clarett+ interfaces accept electric instruments directly. Selecting INST for these channels unbalances the input and alters the gain and impedance to optimise the pre-amplifier for a high-impedance source like an electric guitar.

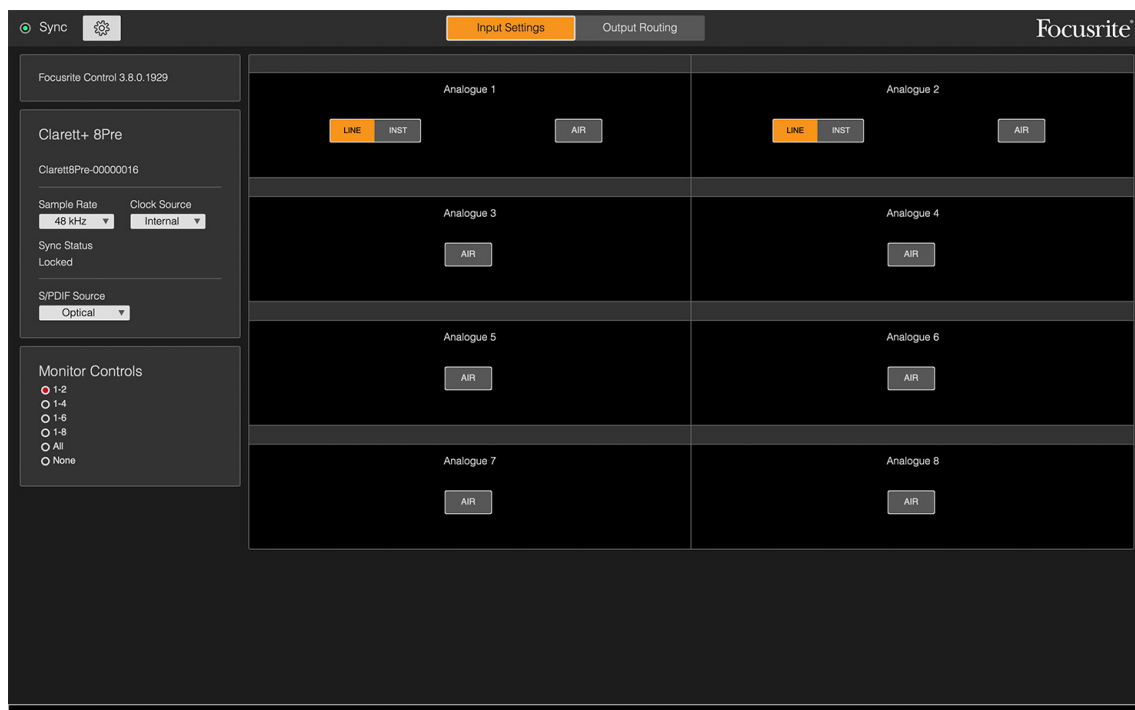
Selection of **INST** mode is confirmed by a red LED on the unit's front panel.

The alternative switch position for these channels is **LINE**; in this mode, the inputs are suitable for a standard balanced line level signal.

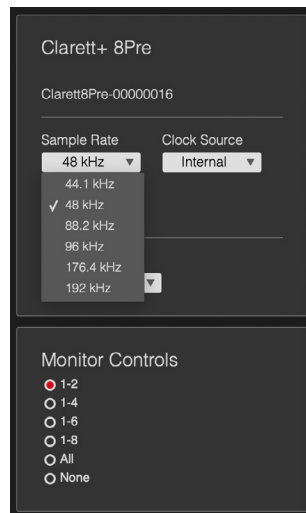
All the channels on your interface are able to accept dynamic or condenser microphones. The Combo-type connectors sense either an XLR plug or a jack plug, and reconfigure the pre-amplifier for mic or line operation automatically. The channels which additionally have the INST function use the same connector.

DEVICE SETTINGS

Click on the cog icon  to open the **Device Settings** pane, which slides out from the left of the screen; click the icon again to close it. The **Device Settings** pane lets you make various global settings to the hardware interface which will remain in force until you change them.

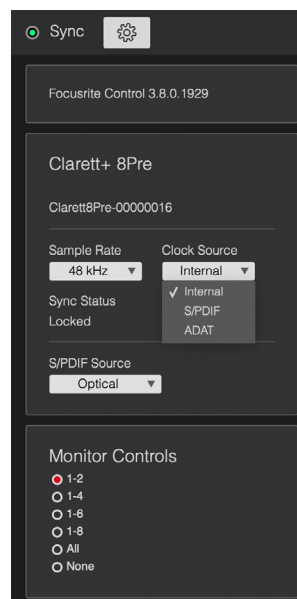


Sample Rate



Your Clarett+ interface is able to operate at any of six sample rates: 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz and 192 kHz. The default sample rate is 48 kHz. Select an alternative sample rate if needed. Note that the optical input is disabled when sample rates of 176.4/192 kHz are in use.

Clock Source



Interconnected digital audio equipment must always use the same reference clock source. Your Clarett+ interface is able to synchronise from three sources:

- **Internal** – the internally generated reference clock. This is the default selection.
- **S/PDIF** – the embedded clock signal in a signal at the S/PDIF IN connector.
- **ADAT** – the embedded clock signal in a signal at the OPTICAL IN connector.

Whichever source is selected, the clock signal is available at the Clarett+'s **WORD CLOCK OUT** rear panel BNC socket to allow synchronisation with other digital equipment (only on Clarett+ 8Pre).

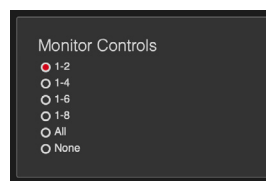
S/PDIF Source

On the Clarett+ 4Pre and 8Pre you can change which digital input you are using to receive S/PDIF. By default the Clarett+ will use coaxial S/PDIF. You can change the S/PDIF source to optical to connect to consumer devices with optical S/PDIF outputs, for example connection to a games console or TV with your Clarett+.

Monitor Controls

It is very convenient to adjust your monitoring volume with a conventional rotary control. Clarett+ interfaces have a **MONITOR** control on the front panel for this purpose. Normally (i.e., by default), this will adjust the level at Monitor Outputs 1 and 2 while also providing Mute and Dim control.

If you are using some of the Clarett+'s other outputs for secondary speakers – typically nearfield, though also in LCR or surround setups – you can assign the rotary control, Mute and DIM switches to affect them as well.



The options are:

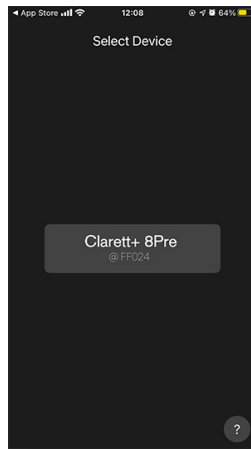
- **1-2** – Monitor Outputs 1 & 2 (default setting)
- **1-4** – Monitor Outputs 1 & 2 and Line Outputs 3 & 4
- **1-6** – Monitor Outputs 1 & 2 and Line Outputs 3 to 6
- **1-8** – Monitor Outputs 1 & 2 and Line Outputs 3 to 8
- **All** – Monitor Outputs 1 & 2 and Line Outputs 3 to 10
- **None** – The rotary control, MUTE and DIM switches are disabled; output levels may still be controlled from the software faders.

Note: Assigning outputs 7-8 and 9-10 to monitor control will affect the level of the headphone outputs as they are shared.

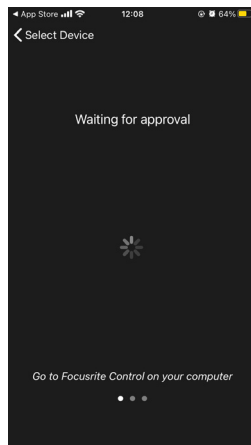
In the Output tabs on the **Output Routing** page, the fader “knob” will be green for the outputs assigned to the hardware rotary control. This means the on-screen fader is inoperative and you have to adjust the level of those outputs from the front panel. However, the on-screen fader position, plus Mute and Dim status will reflect the hardware control’s operation.

SETTING UP FOCUSRITE CONTROL APP FOR iPhone & iPad

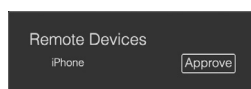
1. First ensure your Clarett+ interface is connected to your computer and the Focusrite Control desktop application is open.
2. Download Focusrite Control App from the Apple App Store. The developer will be shown as "Ampify Music".
3. Open the Focusrite Control App.
4. Your iOS device may ask you to give permission for Focusrite Control App to find and connect to devices on your local network. Tap **OK** to authorise this.
5. When Focusrite Control App opens it will begin by searching for Focusrite devices on your network. When it has finished you will see a list the available Focusrite devices displayed on your network.



6. Tap on your Clarett+ interface. **Waiting for approval** will appear on the screen.



7. Now go to the Focusrite Control desktop application on your computer.
8. Click the cog symbol  in the top left to open the Settings pane.
9. At the bottom of the **Settings** pane there is a section called **Remote Devices**. You should see your iOS device listed there. Tap **Approve** to pair your iOS device with your Clarett+.



10. Return to your iOS device and you should see your interface's settings.

Inputs Section

The **Inputs** section allows you to control the input settings on your Clarett+. This section corresponds to the **Input Settings** section in the desktop version of Focusrite Control and all of the same controls can be found here.

Input metering for each input can be found in the top left of that input's section

Outputs Section

The **Outputs** section corresponds to the **Output Routing** section in the FC desktop application

The **Mute** and **Dim** controls for each output are available here.

Press **Mix** to adjust the level, pan, mute and solo settings of the inputs within that mix. If you want to add additional channels to the mix, this is done from the Focusrite Control desktop application.

Monitor Control Section

The **Monitor Control** section allows you to use your iOS device as a monitor controller for your interface. This is useful if you can't reach your interface from your desk.

The Monitor Control section features Mute, Dim and Level Control and also includes the Mix button allowing you to adjust levels to the mix.

Remember to turn off hardware control of the monitor output in the desktop version of Focusrite Control if you want to remotely adjust the level control from the iOS app. (see page 27)

TROUBLESHOOTING

For all troubleshooting queries, please visit the Focusrite Help Centre at support.focusrite.com where you will find articles covering numerous troubleshooting examples.

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