

# FabFilter Pro-Q 3 User Manual



## **Table of Contents**

3
5
6
8
9
1
3
5
6
8
9
1
2
5
8
0
1
2
4
5
6
7
8
9
0
1
2
3
4
7
9
0

## **About FabFilter Pro-Q 3**

Since its original release in 2009, FabFilter Pro-Q has become the trusted workhorse EQ plug-in for many engineers and producers around the world, widely praised for its superb workflow, excellent sound quality and extensive feature set. With version 3, we're bringing Pro-Q to a new level, introducing features like dynamic EQ, surround/immersive audio support up to Dolby Atmos 9.1.6, per-band mid/side processing, and much more.

FabFilter Pro-Q 3 gives you the highest possible sound quality, a complete feature set, and a gorgeous, intelligent interface that is designed to help you get 'that' sound quickly and easily.



## New in version 3

At first glance, FabFilter Pro-Q 3 looks quite similar to its predecessor. But looks are deceiving! Of course, the clean design and intelligence of Pro-Q 2 is still present, but a lot of exciting new functionality has been added to improve your sound and workflow:

- <u>Dynamic EQ</u> for any of the 24 bands (Shelf or Bell at any slope), with Dynamic Range and Threshold controls and an intelligent Auto Threshold mode.
- Dynamic EQ bands still feature perfect analog EQ shape matching and also support Linear Phase mode.
- Easily create dynamic bands in the EQ display by holding the Alt key while dragging the result curve or doubleclicking in the display.
- Immersive audio and surround support (up to 9.1.6 Dolby Atmos), with intelligent per-band speaker selection.
- Per-band mid/side or left/right processing options.
- New Brickwall LP/HP filter slope.
- New Flat Tilt filter shape: a flat tilting correction curve over the whole audible frequency spectrum.
- Improved spectrum analyzer with <u>frequency collision indication</u> and the option to <u>show the spectrum of any other Pro-Q 3 instance</u>: simply hover over the analyzer button in the bottom bar and choose another Pro-Q 3 plug-in instance here. Instances are named automatically and can be renamed if needed.
- Improved EQ parameter value display with bypass, shape and delete buttons and easy access to the band menu.
- Improved Spectrum Grab with labels indicating the most important peaks.
- Improved EQ band menu (also accessible via the value display), with Make Dynamic, Invert Gain options and more.
- Improved <u>EQ Match</u>, adding the possibility to match with a post spectrum from another Pro-Q 3 instance in your session.
- Improved <u>Auto Gain</u> with channel weighting and an estimated correction of dynamic gain for a better overall gain adjustment.
- Improved <u>MIDI Learn</u> with the ability of controlling the active band using a single set of controls on your MIDI controller.
- Overall new and fresh design.

#### Other key features

And of course, all the goodness of the Pro-Q 2 is still here: highest possible sound quality, Natural and Linear Phase processing, univeral slope support for all EQ shapes, EQ match, a gorgeous, resizeable interface with full screen more for easy and precise editing, up to 24 EQ bands, intelligent band solo mode, stereo or mid/side processing, intelligent multiband selection and editing for maximum ease and efficiency, spectrum grab, GPU-powered graphics acceleration, double-click text entry of parameter values, different display ranges: 3 dB and 6 dB ranges for mastering, 12 dB and 30 dB for mixing, Pro Tools hardware control surfaces support, MIDI Learn, undo/redo and A/B comparison, and an extensive help file with interactive help hints.

## **Upgrading to Pro-Q 3**

Upgrading from Pro-Q version 2 to the new Pro-Q 3 is safe and easy: installing Pro-Q 3 will **not** replace or delete the previous Pro-Q 2 and Pro-Q version 1 plug-ins. All versions will co-exist and can be used at the same time. This ensures that you can open old songs that use Pro-Q 2 or Pro-Q 1 without problems! Of course, FabFilter Pro-Q 3 opens all presets from Pro-Q 2 and Pro-Q 1 without problems. See <u>Upgrading to Pro-Q 3</u> for more information.

FabFilter Pro-Q 3 is available in VST, VST3, CLAP, AU (Audio Units), AAX Native and AudioSuite formats.

Windows requirements	macOS requirements
Windows 11, 10, 8, 7 or Vista	macOS 10.13 or higher (64-bit only)
64-bit or 32-bit	VST 2/3, AU or CLAP host, or Pro Tools
VST 2/3 or CLAP host, or Pro Tools	Intel or Apple Silicon processor

Next: Quick start

See Also

<u>Using FabFilter Pro-Q 3</u> <u>Acknowledgements</u>

## **Quick start**

The installer will copy the FabFilter Pro-Q 3 plug-in into the common VST, VST 3, CLAP, AU (macOS only) and Pro Tools plug-in folders on your computer. On macOS, the global plug-in folders in /Library/Audio/Plug-Ins are used.

In most cases, your host will then recognize the plugin automatically. However, if the instructions below do not work, see <u>Manual installation</u> instead.

#### Pro Tools

Choose an empty insert slot on one of your audio tracks, instrument tracks or buses and select FabFilter Pro-Q 3 from the pop-up menu in the EQ section.

#### • Studio One

Click the '+' button next to the Inserts tab of an audio track, instrument track or bus and select 'FabFilter Pro-Q 3' from the drop-down menu.

#### Logic Pro

Choose an empty insert slot on one of your audio tracks, instrument tracks or buses and select FabFilter Pro-Q 3 from the pop-up menu. You will find FabFilter Pro-Q 3 in the *Audio Units* > *FabFilter* section (named Pro-Q 3).

#### Ableton Live

In Session view, select the track you would like to place FabFilter Pro-Q 3 on, for example by clicking the track name. At the left top of Ableton Live's interface, click on the Plug-in Device Browser icon (third icon from the top). From the plug-ins list, double-click FabFilter/FabFilter Pro-Q 3, or drag it onto the track.

#### Cubase

Choose an empty insert slot, for example in the Mixer, and select FabFilter Pro-Q 3 from the menu that appears. To use the MIDI features in Pro-Q 3, create a new MIDI track and set its output to the Pro-Q 3 instance you have just created. (The VST 3 version of Pro-Q 3 can be found in the EQ section.)

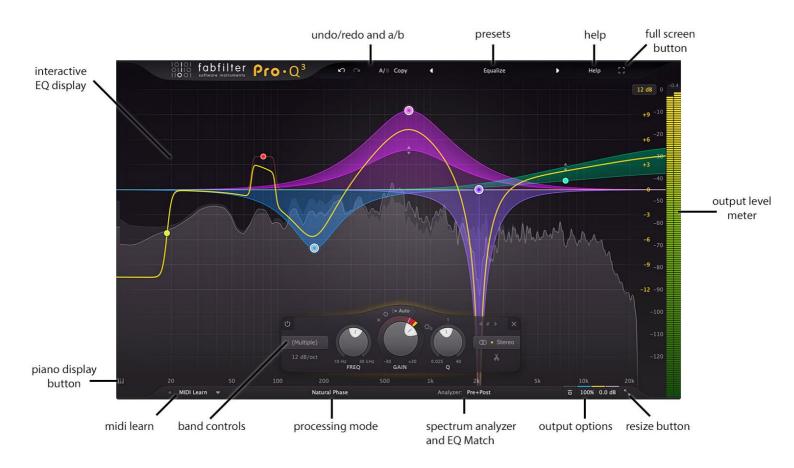
To begin, just open the plug-in and drag the yellow line in the display or double-click anywhere to create new EQ bands. Enjoy!

Next: FabFilter Pro-Q 3 overview

See Also Overview

#### **Overview**

The interface of FabFilter Pro-Q 3 is simple and straightforward. The interactive EQ display fills the whole plug-in window, and lets you create and adjust EQ bands using the mouse. When you create or select bands, the band controls will appear, floating above the display, positioned under the selected bands. Using the band controls, you can change the settings of the currently selected EQ bands. The bottom bar offers features like processing mode (zero latency, Natural Phase or linear phase), spectrum analyzer settings, global bypass, phase-invert, auto-gain, gain scale and output level/panning.



## • Interactive EQ display

The interactive EQ display shows you in a glance what's going on and lets you easily create and edit EQ bands. See Display and workflow.

## • Band selection controls

The controls below the EQ display adjust the parameters of the currently selected EQ bands in the display. See <u>Band controls</u>.

#### Processing mode

FabFilter Pro-Q 3 can work in zero-latency mode, Natural Phase mode or in linear-phase mode with variable processing resolution. See Processing mode.

## Spectrum analyzer and EQ Match

Via the Analyzer button, you can enable or disable the real-time spectrum analyzers for the pre-EQ, post-EQ and external signals, and you can customize the analyzer settings. See <a href="Spectrum Analyzer">Spectrum Analyzer</a>. Via the same settings panel, you can also access EQ Match mode, which lets you match the spectrum of a reference signal. See <a href="EQ Match">EQ Match</a>.

## Output options

On the far right of the bottom bar, you can bypass the entire plug-in, invert the output phase, enabled or disable autogain, show/hide the output metering, apply an overall gain scale and adjust the output level and panning. See <u>Output options</u>.

## Full Screen mode, resizing and scaling

The Resize button at the far right of the bottom bar lets you change the interface size and scaling. In addition, click the Full Screen button in the top-right corner of the interface to let Pro-Q 3 fill the entire screen. See <u>Full Screen mode</u>, resizing and scaling.

## • Piano display

Using the Piano Display button, you can toggle between the normal frequency scale and a piano keyboard display, via which you can easily quantize band frequencies. See <u>Piano display</u>.

#### MIDI learn

MIDI Learn lets you easily associate any MIDI controller with any plug-in parameter. See MIDI Learn.

## Presets, undo, A/B, help

With the preset buttons, you can easily browse through the factory presets or save your own settings so you can re-use them in other songs. The Undo, Redo, A/B and Copy buttons at the top of the plug-in interface enable you to undo your

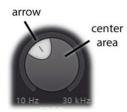
6

changes and switch between different states of the plug-in. Finally, the Help menu provides access to help and version information. See  $\underline{\text{Loading presets}}$  and  $\underline{\text{Undo, redo, A/B switch}}$ .

Next: Knobs
See Also
Quick start

#### Knobs

It is easy to control FabFilter Pro-Q 3's parameters with the large round knobs. They will light up when you move the mouse cursor around to indicate that you can adjust them. The moment you move the mouse cursor over a knob, a parameter value display will pop up, which shows the name and the current value of the parameter.



All knobs support four ways of control:

#### 1. Vertical mode

Click on the center area of a knob and drag up or down to rotate it. The knob reacts to the speed with which you are dragging, so if you move the mouse slowly, you make precise adjustments.

#### 2. Rotate mode

Grab the arrow of the knob and drag it around. By moving the mouse cursor further away from the knob while dragging it, you can make precise adjustments.

#### 3. Mouse wheel mode

Perhaps the easiest way to make adjustments is by using the mouse wheel when you hover over a knob. This mode works for all the knobs and possible panning rings. (On Windows, you might need to click in the plug-in interface first to make sure it is the active window.)

## 4. Text entry mode

Double-click a knob to enter an exact value using the keyboard.

# Tips

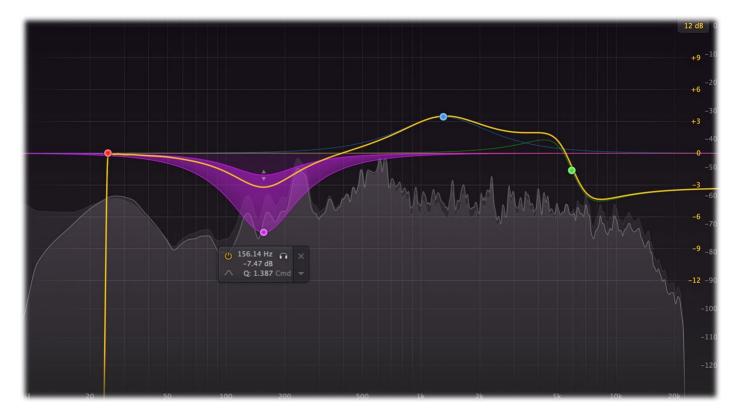
- To **reset** a knob to its default position, hold down the *Ctrl* key (Windows) or *Command* key (macOS) and click the knob once. Note: In Pro Tools, Pro-Q 3 uses the default Pro Tools keyboard shortcut for reset: *Alt*+click.
- To **fine-tune** a value when using vertical drag mode or the mouse wheel, hold down the *Shift* key while dragging or moving the mouse wheel. Note: In Pro Tools, Pro-Q 3 uses the default Pro Tools keyboard shortcut for fine tune: *Ctrl*+drag on Windows or *Command*+drag on macOS.
- There are several **handy shortcuts in text entry mode**. With frequency values, you can type e.g. '1k' to set the value to 1000 Hz, and also 'A4' for 440 Hz, or even strings like 'C#3+13'. With dB values, you can type e.g. '2x' to get +6 dB (the value that corresponds to two times louder). With all values, you can also type a percentage (e.g. '50%' will put a knob exactly in the middle position).
- Sometimes, knobs in our plug-in interfaces are **linked**: these can be adjusted simultaneously by holding down the *Alt* key (*Shift* key in Pro Tools) while dragging on one of them. For example, an output level and input level setting of a plug-in could be adjusted simultaneously (in the opposite direction) this way.

Next: Display and workflow

See Also
Using on iOS
Overview

## Display and workflow

The large display shows all EQ bands and lets you easily create new bands and edit them. The thick yellow curve shows the overall frequency response and dynamic behavior of the equalizer. The EQ display looks simple and straightforward, but holds a lot of intelligence and smart features. We strongly recommend to take some time to read this topic and learn about all its options and shortcuts... it will highly improve your workflow!



#### Creating bands

- To add a new EQ band, simply click on the yellow overall curve and drag it up or down.
- Alternatively, double-click or Ctrl-click (Command-click on macOS) on the display background.
- Hold down the Alt key while creating a band using the method above, to create a dynamic band instead of a normal band.

The shape of newly created curves is determined automatically depending on where you click, and once you get used to this, it's a real time-saver! Do you need a Notch curve? Just double-click in the far low area of the display. Want a Low Cut or High Cut filter? Double-click in the far left or far right areas. Shelving filter? Drag the yellow curve at the left or right end of the display.

## Selecting bands

- Click the EQ band's dot or the colored area around it to select it.
- Click and drag on the display background to **select adjacent bands** by dragging a rectangle around them.
- Hold down *Ctrl* (*Command* on macOS) and click another dot to **select multiple bands**. Hold down *Shift* and click a dot to **select a consecutive range** of bands.
- **Deselect** all bands by clicking anywhere on the display background.

#### Adjusting and editing bands

Once you have selected one or more EQ bands, the display highlights the shapes of the selected bands. You can now of course edit the EQ settings via the floating <u>band controls</u>, but the easiest way to adjust them is simply by dragging them around:

- Click and drag a selected dot to adjust the **frequency** and **gain** of all selected bands. If you have multiple bands selected, the gain of all selected bands will be scaled relative to each other.
- For dynamic bands, drag the dynamic range indicator up or down to adjust the dynamic range.
- Move the mouse wheel to adjust the Q setting, making the selected bands narrower or wider. This works while
  dragging or when the mouse pointer is above a curve. Alternatively, adjust the Q of all selected bands by holding
  down Ctrl (Command on macOS) while dragging vertically.
- Move the mouse wheel while holding down Alt to adjust the dynamic range setting or Ctrl (Command on macOS) to adjust the gain. Hold both Alt and Ctrl (Alt+Command on macOS) to perform a linked change, trading gain for dynamic range.

Hold down Shift while dragging (or while using the mouse wheel) to **fine-tune** the settings of the selected bands.

- Hold down Alt while dragging to constrain to horizontal adjustments (frequency) or vertical adjustments (gain or Q, depending on the Ctrl/Command key).
- Hold down Alt and click the dot on an EQ band once to toggle its **bypass** state (enabling or disabling the band).
- Hold down Ctrl+Alt (Command+Alt on macOS) and click the dot on an EQ band once to change its shape.
- Hold down Alt+Shift and click the dot on an EQ band once to change its slope.
- Double-click a dot to **enter values in the EQ parameter display** (using the *Tab* key to step through Frequency, Gain and Q) or double-click the values in the parameter value display directly. Note that you can enter frequencies in various ways, like "100", "2k", "A4" or "C#2+13".
- If you right-click on the dot for an EQ band, a **pop-up menu** appears with various band settings. This is a quick way to modify the EQ band while you're working in the display.

#### EQ parameter display

Next to each EQ band's dot in the display, the EQ parameter display shows the exact parameter values for the EQ band, along with quick controls to bypass or delete a band, enter <u>solo mode</u>, and change its shape. You can double-click a value in the display directly to edit it. Click the triangular menu button to access the band menu with more options. In case you find the EQ parameter display to be distracting, you can turn it off via the **Show EQ Parameter Display** option on the Help menu.

#### Display range

Note that two display scales are drawn: the yellow scale corresponds to the EQ band curves and yellow overall curve. The gray scale at the far right is used by the <u>spectrum analyzer</u> and <u>output level meter</u>. In the top-right corner of the display at the top of the yellow scale, there is a drop-down button to choose the **display range**: +/- 3 dB, 6 dB, 12 dB or 30 dB. When you are dragging a curve outside the current range of the display, the range will expand automatically as needed.

## **Horizontal zooming**

Sometimes it might be useful to zoom in to a specific frequency for extra precise editing. You can easily do this by clicking and dragging the frequency scale at the bottom of the EQ display, just above the bottom bar. You can do the following:

- Click and **drag up and down** to zoom in and out at the frequency you have clicked on.
- While zoomed in, you can also **drag left and right** to move the frequency scale.
- Just double-click the scale to return to its default full range.

## Tips

- In **Full Screen mode**, available via the button at the right top of the interface, the EQ display will fill the whole screen so you can make very precise adjustements. See <u>Full Screen mode and resizing</u>.
- To **quantize a frequency** without using the <u>piano display</u>, just double-click a curve dot in the display or the Frequency knob in the EQ controls, and enter a value like "A4" or "C#2".
- It is possible to turn off the automatic adjustment of the display range via the **Auto-Adjust Display Range** option on the Help menu.
- Even though frequencies above 20 kHz are generally inaudible, the display extends to 30 kHz so you can put filters above this limit. The left part of the filter, extending into the audible frequency spectrum, still affects the sound. This gives you even more possibilities to shape the frequency response of the equalizer just the way you need it.

Next: Band controls

See Also
Overview
Dynamic EQ
Spectrum Grab

## **Band controls**

When you select EQ bands in the <u>interactive EQ display</u>, the floating band controls will automatically appear, right under the selected bands at the bottom of the display. The band controls show the current settings of the selected EQ bands and enable you to adjust them precisely.



From left to right, the following settings are available:

- The **bypass** button at the left top lets you easily bypass the selected EQ bands. Note that you can also bypass an EQ band by *Alt*-clicking its dot in the display. While an EQ band is bypassed, it is dimmed in the display and a red light glows in the bypass button.
- The shape button selects the filter shape of the selected bands:
  - 1. Bell, the traditional parametric EQ shape and probably the most versatile of them all
  - 2. Low Shelf, to boost or attenuate low frequencies
  - 3. Low Cut, to cut all sound below the filter frequency
  - 4. High Shelf, to boost or attenuate high frequencies
  - 5. High Cut, to cut all sound above the filter frequency
  - 6. Notch, to cut a small section of the spectrum
  - 7. Band Pass, to isolate a section of the spectrum
  - 8. Tilt Shelf, to tilt the spectrum around a certain frequency
  - 9. Flat Tilt, to tilt the spectrum using a flat curve, around a certain frequency

Note: you also change the shape of an EQ band by Ctrl+Alt-clicking its dot (Command+Alt on macOS) in the display.

- The **slope** button below the shape parameter sets the steepness of the filter from 6 dB/octave to 96 dB/octave (and even up to Brickwall for Low Cut and High Cut filters). In Pro-Q, the slope not only applies to the usual Low Cut and High Cut filters, but to all filter shapes! This allows you to make highly surgical adjustments if needed. So for example, you can make ultra-narrow Bell or Notch filters or very steep Shelving filters.
- The **frequency** knob sets the frequency of the selected band between 5 Hz and 30 kHz. If multiple bands are selected, they are adjusted in parallel.
- The **gain** knob sets the gain in dB of the selected bands between -30 and +30 dB. This setting is only used for Bell and Shelving filter types.
- The **dynamic range** ring sets the range of dynamic EQing in dB, ranging from -30 to 30 dB (possibly limited by the gain setting limits). Choosing a positive or negative dynamic range will make the band dynamic and expose additional dynamic controls. This setting is only available for Bell and Shelving filter types. See <a href="Dynamic EQ">Dynamic EQ</a>.
- The **Q** knob sets the bandwidth of the selected bands, widening or narrowing them. The Q cannot be adjusted when a 6 dB/octave slope is used.

Note: Because there are different interpretations of Q values in various EQ plug-ins and scientific papers, we have chosen the value 1 to correspond to the default bandwidth. For the shelf filters, the internal Q values are chosen such that they result in a good range of shelf shapes. Keep this in mind when trying to reproduce the filter shapes of another EQ plug-in in Pro-Q: the interpretation of the Q values might not be the same.

• Using the **Gain-Q interaction** button, between the gain and Q knobs, you can enable a subtle, analog-EQ-like gain-Q interaction. When enabled, Q and gain influence each other in a pleasant way often found in analog mixing consoles. Essentially, this means that the Q automatically gets a bit narrower when gain is increased, and the other way around, a little gain is added when the Q gets very narrow.

Note: Gain-Q interaction only affects the Bell filter shape. Pro-Q remembers the last Gain-Q interaction setting that you've chosen and will use this for new instances of the plug-in.

• The **previous- and next band** buttons let you step through the current available bands in the display, in the order in which they currently appear in the display. In between, the band number of the current band is shown to help you to identify this band in the host when automating EQ parameters.

Note: When creating new bands, they will be numbered 1, 2, 3 and so on. But when you delete a band, the others won't renumber, in order to ensure that currently written automation in your host still controls the correct band.

- The **delete** button at the right top removes the selected EQ bands. If you have accidentally deleted some bands, you can easily restore them using the <u>Undo</u> button at the top of the plug-in interface.
- The **stereo placement** button controls which channels are affected by the selected bands. The **split** button (scissors icon) splits the selected bands into L and R (or M and S) bands. See <u>Stereo options</u>. When using Pro-Q on a surround/immersive audio channel, the stereo placement button will open a panel with more extensive stereo placement and speaker selection setting. See <u>Surround and Dolby Atmos</u>.

#### Tips

- Double-click any knob to enter the value directly using the keyboard. See <u>Knobs</u> for more information. For the Frequency knob, you can enter values in various ways, like "100" or "2k", but also "A4" or "C#2+13".
- To hide the band controls, simply deselect all bands by clicking on the display background.
- Hold down the Alt key while changing the gain or dynamic range knobs in a reverse-linked way (i.e. to trade gain for dynamic range).

Next: Dynamic EQ

See Also Overview

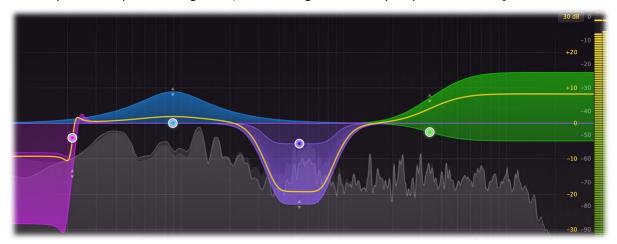
Display and workflow

## **Dynamic EQ**

One of the most important new features in Pro-Q 3 is dynamic EQ: any of Pro-Q's bands (with Bell or Shelf shapes) can be made dynamic, at any slope, with <u>perfect analog matching</u> and in <u>Linear Phase mode</u>.

Simply put, dynamic EQ changes the gain of an EQ band dynamically, depending on the level of the input signal. This makes it possible to perform subtle and surgical edits similar to a multi-band compressor, but in a way that's often more intuitive and easier to work with.

Since Pro-Q is used by many engineers and producers worldwide as their standard workhorse EQ, we have ensured that Pro-Q 3 remains very lightweight and ultra-fast to work with, keeping the existing natural workflow and shortcuts. Dynamic EQ in Pro-Q 3 is an intuitive and elegant extension of the regular workflow: the dynamic options and controls are only exposed when you actually start using them, and won't get in the way of your normal EQ work.



The dynamic behavior of Pro-Q 3 has been carefully tuned and is highly program dependent: attack, release and knee all depend on the processed audio, the frequency range of the EQ band and the current dynamic range. This results in very natural and smooth sounding compression and expansion, useful for a wide range of dynamic EQing applications.

## **Creating dynamic bands**

Any of Pro-Q's bands can be made dynamic. This can be achieved in different ways:

- Select EQ bands in the <u>EQ display</u>, and then adjust the **dynamic range ring** around the Gain knob in the band controls, choosing a positive or negative value.
- Hover above an EQ band in the display, and use the **mouse wheel** while holding down the *Alt* key to adjust the dynamic range for this band or the selected EQ bands.
- Select EQ bands in the display, and then choose **Make Dynamic** on the band menu (which you can access by right-clicking the band dot, or via the menu button in the EQ parameter display).
- You can also **create dynamic bands** right away (initialized with a dynamic range instead of normal gain), by holding down the *Alt* key while creating bands in any of the normal ways: *Alt*+drag the result curve, *Alt*+double-click in the EQ display or *Alt+Ctrl*+click (*Alt+Command*+click on macOS) in the EQ display.

Internally, the dynamic EQ process will trigger on a band-limited version of the plugin's input, according to the frequency range the band works on.

## **Dynamic band controls**

The following dynamic controls are displayed for dynamic EQ bands:



• The **dynamic range** ring sets the amount of dynamic EQing for a band, ranging from -30 to 30 dB (possibly limited by the maximum gain setting limits). Choose a positive (expansion) or negative (compression) value here enables dynamic EQing and exposes the additional dynamic controls. Note that this setting is only available for Bell and Shelving filter types. The current dynamic gain change is shown as a yellow bar inside the ring, on top of the dynamic range that is indicated in red.

Note that you can also drag the dynamic range indicator for a band in the <u>EQ display</u> up or down to adjust the dynamic range.

- The **auto-threshold** button toggles the dynamic behavior between the default auto- or custom threshold mode. When in auto mode, the threshold is constantly adjusting to the level of the current, band-limited trigger signal. Click it to enable the custom threshold mode, revealing the threshold slider.
- The **external side chain** button, visible when using a custom threshold, lets you toggle between triggering on the plug-in input signal, or the external side chain input. Note that the plug-in input signal is band-limited and possibly M/S encoded depending on the settings of the band, but the external side chain input is not processed in this way, to give maximum flexibility when using this feature. See also <a href="External side-chaining">External side-chaining</a>.
- The **threshold slider**, visible when not using auto-threshold mode, sets the threshold for triggering the dynamic EQ. The level of the trigger signal is shown in the slider, making it easy to find the correct threshold. Note that a soft knee is used internally by the dynamic EQ algorithm, so it can start triggering a little bit below the selected threshold value.
- The **bypass dynamics** button at the left top of the dynamic range ring makes it easy to bypass the dynamic behavior of the currently selected bands. While the dynamic behavior is bypassed, this is reflected in the EQ display, the dynamic range ring is shown as inactive, and a red light glows in the button.
- The **clear dynamics** button will reset the dynamic range to 0 dB for all selected bands, essentially turning them back into normal, non-dynamic bands.

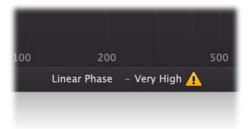
## How and when to use dynamic EQ

Generally when mixing or mastering, making static EQ adjustments works very well. But sometimes, using EQ dynamically can be the key to solving specific frequency issues or bringing out certain elements in a mix. For example, you can use dynamic EQ to brighten a kick drum or tame a hi-hat in your drum track, highlighting or suppressing only the transients. Or you could use a narrow dynamic bell filter to suppress sibilance in a vocal recording. Especially in combination with the per-band mid/side/stereo options, the possibilities are endless.

Pro-Q 3's workflow is perfectly designed for this: you can use it as your go-to EQ on every channel, doing the usual static EQing, but when you need to you can make any band dynamic right away.

#### **Linear Phase processing**

Dynamic EQing also works in <u>Linear Phase mode</u>, but only for Processing Resolution settings up to *High*. The attack and release response will be slightly different from the normal behavior in Zero Latency and Natural Phase modes.



When using dynamic EQ in Linear Phase mode in combination with the Very High or Maximum resolution settings, you will see a warning sign next to the Processing Mode button to indicate that this is not possible. In this case, simply lower the resolution to High or lower to be able to use dynamic EQing.

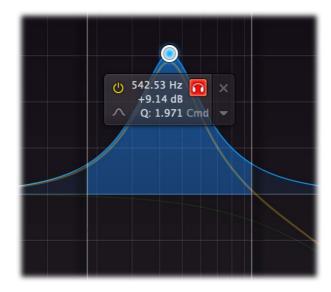
## **Tips**

• When using the mouse wheel above an EQ band while holding down both *Alt* and *Ctrl* (*Command* on macOS), you change both the dynamic range and gain of the band in a reverse linked way, i.e. you can trade gain for dynamic range.

Next: Solo
See Also
Overview
Band controls
Spectrum Grab

## Solo

When you move the mouse cursor near an EQ band in the display, the EQ parameter display pops up showing the current parameter values for the band.



Click and hold the **solo button** (with the headphones icon) to enter **solo** mode for the current EQ band. The other EQ bands will dim, just like the yellow overall curve. Simply **drag** the solo button horizontally to change the frequency of the band, or vertically to adjust the **solo listening level**.

In solo mode, you don't hear the effect of the EQ band itself, but instead you will hear the part of the frequency spectrum that is being affected by that band. Of course, the frequency range depends on the frequency and Q settings, and is visualized in the display as well.

When using solo mode with **Low Cut** or **High Cut** bands, you will hear the frequencies that are being cut away instead of the frequencies that pass, which helps you to determine whether you are cutting the right frequencies.

Generally, solo mode aims to expose the parts of the incoming audio that matter to the current EQ band, but that you can't hear just by listening to the regular EQ sound.

## Tips

- When using solo with **Bell** or **Shelving** bands, hold down Ctrl (Cmd on macOS) while dragging to change the Q, which will of course affect the frequency range that you hear. For filter types that do not have a Gain setting (Lowand High Cut, Notch, Band Pass), dragging in solo mode has the same effect as dragging the normal, changing both Frequency and Q.
- You can adjust the **solo listening level** by moving the mouse up or down while holding the solo button.
- If the <u>piano display</u> is enabled, the parameter value display will also show the note number that corresponds to the band frequency.
- You can turn the parameter value display on and off by clicking **Show EQ Parameter Display** in the Help menu.

Next: Full Screen mode, resizing and scaling

See Also
Overview
Display and workflow

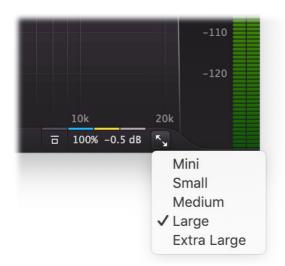
## Full Screen mode, resizing and scaling

With just the click of a button, the Pro-Q 3 interface will fill up the whole computer screen so you can make ultra-precise adjustments and get the best view on the spectrum analyzer and filter display. To exit Full Screen mode, just press Escape or click the Full Screen button again.



## Resizing

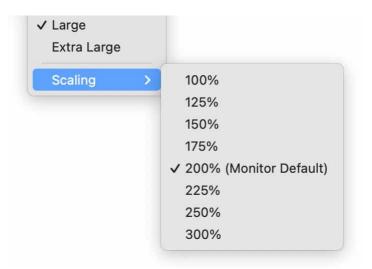
In addition to Full Screen mode, you can also customize the normal interface size using the Resize button at the right of the bottom bar. You can choose between Mini (smallest size, equal to the AUv3 default plug-in size on iOS), Small, Medium (the default size), Large or Extra Large. Once you have selected a size, it will automatically become the default size for new plug-in instances.



#### Scaling

At the bottom of the resize menu, the Scaling submenu lets you increase or decrease the interface scaling relative to the system default, e.g. 150% (smaller) or 300% (larger) on Retina monitors (that have a 200% scaling by default).

When you enable Full Screen mode, the plug-in will automatically choose an appropriate scaling so that all controls become a bit larger. The plug-in automatically remembers the chosen scalings for normal and Full screen mode, and also per monitor type (Retina / High DPI or regular), so once you've customized the settings to your preference, you don't have to worry about it anymore.



## **Tips**

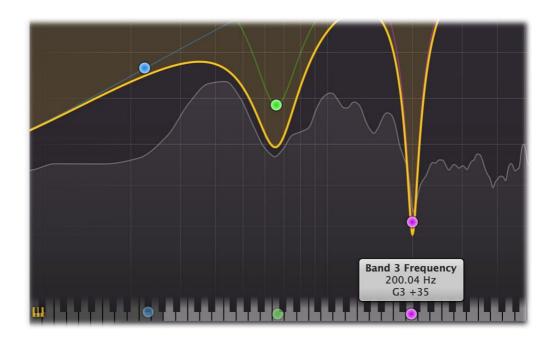
- When using the VST3 plug-in, you can resize the plug-in interface by just dragging the window edges to any size you like. Of course you can always go back to one of the predefined sizes with the resize button.
- The large interface options will be greyed out in the Resize button menu if the current display is too small to support them, and the same applies to the scaling options.

Next: Piano display

See Also Overview Display and workflow

## Piano display

Using the Piano Display button at the bottom left of Pro-Q's interface, just above the bottom bar, you can toggle between the normal frequency scale and a piano keyboard display, via which band frequencies can be adjusted as well. The highlighted keys correspond to an 88-keys grand piano layout, ranging from A0 (27.5 Hz) to C8 (4186.01 Hz).



For every band in the display, there is a corresponding dot on the keyboard. You can interact with the dots in two ways:

- Click the dot once to quantize the associated band's frequency to the exact musical note.
- Click and drag the dot to change the frequency while keeping it quantized to musical notes.

While the piano display is active, parameter value displays that show a band's frequency will also show that frequency as a musical note (including cents offset). Note that at any time, also if the piano display is not showing, you can enter frequencies as musical notes. For example, you can double-click on the Frequency knob in the band selection controls and type "D#5 +13", or "A4".

## **Tips**

- To **quantize a frequency** without using the piano display, just double-click a curve dot in the display or the Frequency knob in the EQ controls, and enter a value like "A4" or "C#2".
- Pro-Q 2 displays the C4 key as middle C, following the most used Roland standard. Note that some DAWs (e.g. Cubase) might use a different format, showing C3 as middle C (the Yamaha standard).
- By default, the piano display key that matches the frequency at the current mouse position is highlighted, and a small label shows its note number. You can turn this feature on or off by clicking **Show Frequency On Hover** in the Help menu.

Next: Stereo options

See Also Overview

Display and workflow

## Stereo options

One of FabFilter Pro-Q 3's best features is that it's very easy to equalize left, right, mid or side signals in a different way. This is a great way to surgically remove unwanted sound artefacts, or even to add stereo effects.



To make this even more powerful than in version 2, Pro-Q 3 offers a stereo placement setting per band. In the default Stereo mode, an EQ band works on both channels of a stereo pair. Using the **stereo placement** button on the right-hand side of the <u>band controls</u>, you can choose to process only the left, right, mid or side information instead:



Click the **split** button underneath the buttons to duplicate the selected band, making two identical copies, one operating only on the left channel and one operating on the right channel. This makes it very easy to slightly adjust one of the channels. The EQ display will group curves that work on the same channels, to visualize the resulting adjustments.

Using the Mid or Side stereo placement setting, you can then easily filter the mid (mono) information independently from the side (stereo) information. This is often the best way to fix artefacts or modify stereo information, because mid/side represents the stereo signal in a more natural way.

The result curve for adjustments exclusive for the left channel will be shown in **white**, while **red** is used for the right channel. The mid and side adjustment curves are shown in **green** and **blue**. Of course, curves that affect all channels are shown in **yellow** as always.

## **Techniques**

Independent channel equalization is very useful when dealing with stereo audio containing unbalanced frequency content over the stereo field. Let's say you want to combine a stereo drum recording with a stereo accoustic guitar recording. The drum recording contains more low-mid frequencies in the left channel (for example a low tom), and more high frequencies in the right channel (like cymbals or a hi-hat). The guitar sound, recorded with a mic capturing the sound-board/hole panned left and one capturing the fretboard/neck panned right, might have similar frequencies as the drum recording, making it hard to combine them in a balanced way. By using independent left/right channel EQing, it is possible to balance these elements so that they do not fight each other. Instead of EQing the whole stereo track of the drums and guitars one can simply EQ where it is necessary to get the two elements to complement each other.

Mid/side EQ is perhaps most commonly used to bring some stereo elements further up within a recording, either by cutting certain frequencies in the mid channel or by boosting the wanted frequency range in the side channel. It is great for adding a bit of depth to typical hard panned rock/heavy guitar recordings where you boost the "bite" frequency range of the guitars (around 2-4kHz) with a quite narrow EQ. Combine this with cutting some of the "mud" away from the side channels will give the effect of huge guitars that still sit well within a mix.

Independent mid/side equalization is also often used during mastering. For example, raising high frequencies in the side channel can freshen up the sound, while a low cut filter in the mid channel can work very well to clear up the low end.

Consider using linear-phase processing when filtering stereo channels (left, right, mid or side) differently to avoid

introducing unwanted phase changes.

#### Surround and mono operation

FabFilter Pro-Q 3 can also work as a mono or surround equalizer plug-in and will adapt itself automatically to the channel layout of the track it is inserted on. In a mono instance, the dedicated stereo options like output panning and stereo placement are not available, of course. When used on surround/immersive audio tracks, Pro-Q 3 offers extra channel placement options to configure the selection of speakers that EQ bands will apply to. See <u>Surround and Dolby Atmos</u>.

If you load a preset with stereo- or surround specific bands (e.g. with Left stereo placement or Lss/Rss speakers setting), they will be shown as disabled in the EQ display, and won't affect audio processing. You can simply remove these bands, or enable them again using the **Reset Placement/Speakers** command in the band's curve menu, which will reset the stereo placement and speakers settings of the selected bands to make them compatible with the current track.

Best practice is to save custom surround or channel-specific presets in a dedicated subfolder to use only when needed.

Next: Surround and Dolby Atmos

See Also Overview Band controls Display and workflow

## **Surround and Dolby Atmos**

FabFilter Pro-Q 3 supports all important surround/immersive audio formats, up to 9.1.6 Dolby Atmos (depending on the DAW and plug-in format). When you add Pro-Q 3 to a surround channel, the interface automatically adapts itself to the used multi-channel format. The output level meter will show all channels, with appropriate labels to identify them.

In addition, the Stereo Placement button will now give access to a surround panel with more sophisticated options to choose which speakers are affected by the selected EQ bands.

#### Speakers and stereo placement

The surround panel shows you an overview of the available speakers in the current surround channel layout. By default, all speakers are selected except the LFE channels. Using the *All* button at the left top, you can toggle to include or exclude the LFE channels.

Click a row of speakers to only select this row, e.g. Lss/Rss or Center. In addition, you can select a specific <u>stereo</u> <u>placement</u> setting at the top to affect only the left, right, mid or side information of the selected speakers. Of course you can also click any of the individual speaker icons directly to let the selected bands work on that speaker only.

If you have selected the L/R speakers, you can click the Center speaker to add it to the set, so a curve applies to all three front **L/C/R** speakers. This also works the other way around: if Center is selected, clicking L/R will add it. When both Center and L/R are selected, just click one of the two rows again to select it exclusively.



The caption of the stereo placement button in the band controls will describe the selected speakers and an additional label under the button will show specific stereo placement information (e.g. "Left only") if needed.

#### **Notes**

- Output panning is not available when using Pro-Q 3 in a surround layout. We recommend to change surround channel levels using a dedicated surround panning plug-in.
- If you load a preset that uses specific surround settings that are not available in the current channel layout, some bands may be disabled, and won't affect the audio. You can either remove these bands, or enable them again via the curve menu's **Reset Placement/Speakers** item, resetting the speakers/stereo placement information.

Next: Processing mode

See Also Overview Stereo options Band controls

## **Processing mode**

The Processing Mode button in the bottom bar selects the type of EQ processing. In almost all cases, either Zero Latency or Natural Phase modes will deliver perfect results, and when linear-phase processing is needed, you can of course use Linear Phase mode with a customizable resolution.



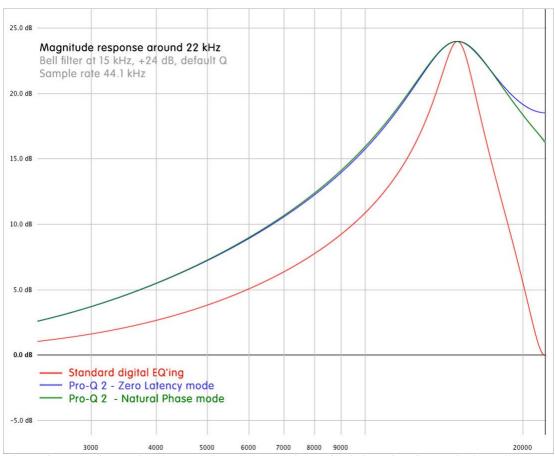
## **Zero Latency**

In Zero Latency mode, Pro-Q matches the magnitude response of analog EQ'ing as closely as possible, obviously without introducing any latency. It is Pro-Q's most efficient processing mode, and absolutely sufficient for most applications.

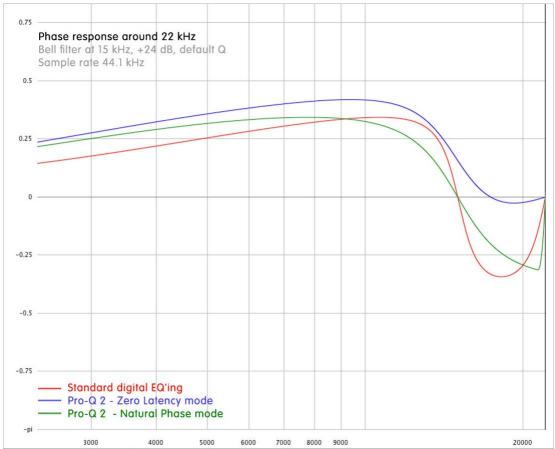
#### **Natural Phase**

Pro-Q's unique Natural Phase mode performs even better. It not only perfectly matches magnitude response of analog EQing, but also closely matches the analog phase response. So it delivers the most accurate frequency response and best sound quality, even at the lowest frequencies and highest Q settings, without introducing noticable pre-ring or long latency.

To illustrate the difference between the two modes, we've plotted both magnitude and phase response of a Bell filter at 15 kHz, and we've also compared this with standard digital EQ'ing, like most DAWs implement in their factory EQ plug-ins.



The red curve shows the magnitude response of standard digital EQ'ing, which really is far from perfect. The blue curve is the response in Pro-Q's Zero Latency mode, which is nearly perfect, except for a small deviation above 18 kHz. The green line shows Pro-Q's Natural Phase mode: it matches the theoretical analog magnitude response precisely!



And now the phase response. Again, the red curve represents standard digital EQ'ing, and blue curve Pro-Q's Zero Latency mode: both have a non-ideal phase response. The green line illustrates Pro-Q's Natural Phase mode response. Apart from a very small, inaudible deviation above 20 kHz, it perfectly matches the theoretical analog phase response.

## **Linear Phase**

When filtering audio, traditional analog and digital filters not only change the magnitude, but introduce phase changes as well. What happens is that the phase of different frequencies in the signal is changed in different ways. This can have an audible effect on the sound, but not necessarily in a bad way. Most of the time, for example for a simple bell or shelving filter, the phase effects are very subtle and hardly noticable. However, for higher-order filters like steep low cut or high cut filters, the effect can become quite apparent as the phase distortion starts to affect transients and can make the sound less transparent.

Moreover, problems arise when you mix a filtered and phase-altered signal with another similar signal that has not been filtered, or that has been filtered in a different way. In this case, it is very likely that the different phase components of both signals won't match up properly and will cancel each other to some extent. This situation can for example occur when mastering. It is quite common to apply an equalizer only to a part of the song, using crossfades at the beginning and end of the affected region. Because the phase information in the original and filtered parts is different, the fades won't work as intended.

Linear-phase processing provides an answer to these problems. Linear-phase filters only change the magnitude of the audio, while leaving the phase untouched. However, linear-phase filters also have some disadvantages. First of all they introduce latency: the entire signal is delayed when passing through the plug-in. Higher processing resolution (for better response in the low frequencies), results in longer latency, but unfortunately this can also introduce 'pre-ring' that can make transients (e.g. a kick drum) lose their edge.

When Linear Phase processing is selected, a Processing Resolution button becomes available. Choosing the correct resolution is a compromise depending on the program material and your personal preference. The following resolutions are available:

- **Low** provides linear-phase processing with a minimal latency. Use only with low Q settings, or when only changing the mid-high part of the spectrum. With a sample rate of 44.1 kHz, it results in a total latency of 3072 samples (about 70 ms).
- **Medium** is a good compromise between low-frequency resolution and latency and we recommend to use this in general for linear-phase processing. The total latency is 5120 samples at a sample rate of 44.1 kHz (about 116 ms).
- **High** gives great low-frequency resolution. If you need to use high Q settings when changing the low end of the spectrum, use this mode. The total latency is 9216 samples at a sample rate of 44.1 kHz (about 209 ms).
- **Very High** gives even better low-frequency resolution. The total latency is 17408 samples at a sample rate of 44.1 kHz (about 395 ms).

**Maximum** results in very high low-frequency resolution at the expense of a very large latency and possible pre-echo problems. The total latency here is 66560 samples at a sample rate of 44.1 kHz (about 1509 ms).

Note: when using both L/R-specific bands and  $\underline{\text{M/S-specific bands}}$  at the same time, the linear phase processing will be done in two separate stages: first the L/R stage, then the M/S stage. Be aware that this will double the latency.

Changing EQ band frequencies in Linear Phase mode sounds just as smooth as when using the other modes, no zipper effects whatsoever. This might sound trivial, but it's actually quite unique in linear-phase processing!

## Choosing a suitable processing mode

As already explained, in almost all normal mixing and mastering situations, Zero Latency mode or Natural Phase mode (with its even better accuracy and phase response) will be the best choice. It is important to understand that linear-phase processing is not better or more transparent than normal processing, it is different! Linear-phase EQ'ing is a problem-solving tool, in general only used to avoid phase cancellation problems. To learn mode about linear-phase vs. normal EQ'ing, watch Dan Worrall's excellent video tutorial on the subject: <a href="https://www.fabfilter.com/video/eq-linear-phase-vs-minimum-phase">www.fabfilter.com/video/eq-linear-phase-vs-minimum-phase</a> <a href="https://www.fabfilter.com/video/eq-linear-phase-vs-minimum-phase-phase-vs-minimum-phase-vs-minimum-phase-vs-minimum-phase-vs-minimum

#### **Notes**

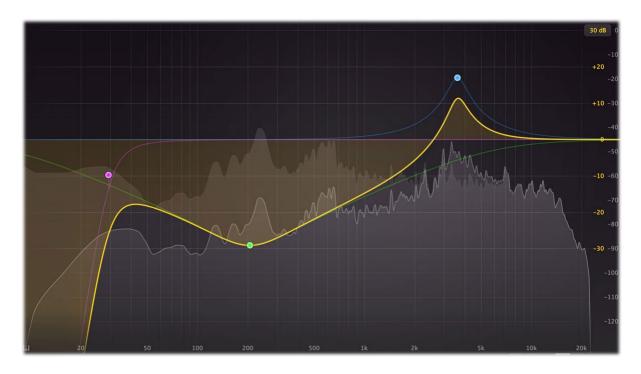
- Dynamic EQing also works in Linear Phase mode, but only for Processing Resolution settings up to 'High'. See Dynamic EO.
- When working with different sample rates, the latency in samples of the various linear-phase modes can change to give you approximately the same low-frequency resolution (and the same latency in ms).
- Due to Pro-Q 3's advanced design, the CPU usage is very low, even when using up to 24 EQ bands, and it doesn't change much with the different linear-phase processing modes.

Next: Spectrum analyzer

See Also Overview Display and workflow

## Spectrum analyzer

To help you judge the effect of the combined EQ bands on the incoming audio signal, FabFilter Pro-Q 3 includes a powerful real-time frequency analyzer.



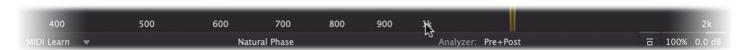
The spectrum analyzer can be customized via the analyzer panel, which pops up automatically when you hover above the analyzer button in the bottom bar. It offers the following options:



- The **Pre** and **Post** buttons at the left top of the analyzer panel enable or disable the pre- and post-EQ spectrum visualization. Note that when <u>global bypass</u> is enabled, the plug-in won't receive or handle any audio, so the spectrum analyzer is disabled as well.
- The **instance name** label shows the name of this Pro-Q 3 instance. In most DAWs, this name will be based on the name of the track at which Pro-Q 3 is inserted. You can choose a custom name if you want by double-clicking the instance name label.

- In addition, you can visualize an **external spectrum** in the main EQ display: this can be either the external side chain of the plug-in, or the post-EQ spectrum from any other Pro-Q 3 instance, as shown in the list of external spectrums. Simply click an external spectrum in the list to activate it. It will be shown in the EQ display with a light red outline to distinguish it from the regular pre- or post-EQ spectrum.
- The **Freeze** button at the left bottom of the panel causes the spectrum to stop falling and build up a maximum over time. While Freeze is enabled, a blue line at the top of the Analyzer button in the bottom bar indicates this state as well.
- The **Spectrum Grab** button next to the Freeze button enables or disables the Spectrum Grab feature. If enabled, you can leave the mouse above the spectrum for a few seconds, and Pro-Q will automatically enter Spectrum Grab mode. Existing EQ bands will be dimmed while the spectrum freezes. You can now simply grab one of the peaks in the white output spectrum line, and drag to adjust! See <a href="Spectrum Grab">Spectrum Grab</a>.
- The **Show Collisions** button enables or disables frequency collision indication. When enabled, the main analyzer will highlight areas of the spectrum (using a red glow) where frequencies may collide with frequencies of the currently selected external spectrum, possibly causing auditory masking issues. In addition, similar highlighting is shown in the list of external spectrums (the side chain and other Pro-Q 3 instances) so you can easily browse for possibly clashing signals. Note that this is merely an *indication*, and not exact science. Always use your ears to decide whether you are actually dealing with problematic collisions or frequency masking. To properly detect peaks and collision areas in the low frequencies, it's best to use the High or Maximum analyzer resolution setting.
- Hover above (or click on) the Settings button to open a panel with settings to customize the behavior of the real-time spectrum measurements:
  - The **Range** setting specifies the vertical range of the spectrum analyzer, which can be 60 dB, 90 dB (the default setting) or 120 dB.
  - The **Resolution** setting determines how precise the spectrum analyzer works. Higher resolution settings allow more precision in the low-frequency area, but because more incoming samples are needed to calculate a single spectrum, the update rate will be lower which generally results a slower attack time. The **Low** value corresponds to a resolution of 1024 points, **Medium** to 2048, **High** to 4096, and **Maximum** to 8192 points.
  - The **Speed** setting selects the release speed of the spectrum. A fast release shows dynamic changes more clearly, while a slow release gives you more time to examine the spectrum before it disappears.
  - The **Tilt** setting tilts the measured spectrum around 1 kHz with a specified slope, expressed in dB per octave. The default setting of 4.5 dB/oct results in a natural looking spectrum, resembling best how loudness is perceived by the human ear.
- Clicking the **EQ Match** button will invoke EQ Match mode. This is a two-step process that uses the side-chain and post-EQ spectrum analysis and adds EQ bands to match the side-chain characteristics. See <u>EQ Match</u>.

#### Horizontal zooming



Sometimes it might be useful to zoom in to a specific frequency. You can easily do this by clicking and dragging the frequency scale at the bottom of the EQ display, just above the bottom bar. You can do the following:

- Click and drag up and down to zoom in and out at the frequency you have clicked on.
- While zoomed in, you can also drag left and right to move the frequency scale.
- Just double-click the scale to return to its default full range.

#### **Tips**

- When you hover over the display, or move the mouse slowly, the frequency under the mouse cursor is shown in the frequency scale at the bottom of the display. If the <u>piano display</u> is enabled, the key under the mouse cursor is highlighted. You can turn this feature on or off by clicking **Show Frequency On Hover** in the Help menu.
- To properly detect peaks and collision areas in the low frequencies, it's best to use the High or Maximum analyzer resolution setting.
- If the dark red color used for frequency collisions is hard to see for you, click Use Accessible Colors on the Help menu to toggle to a brighter color.
- When skipping through presets, the current analyzer settings are not changed, but they are saved in songs.
- Hold down the Freeze button to freeze temporarily until you release the mouse button again.
- If desired, you can make the analyzer panel 'sticky' by clicking the Analyzer button once. Click it again to hide the panel.

Next: EQ Match

See Also Overview External side-chaining Display and workflow

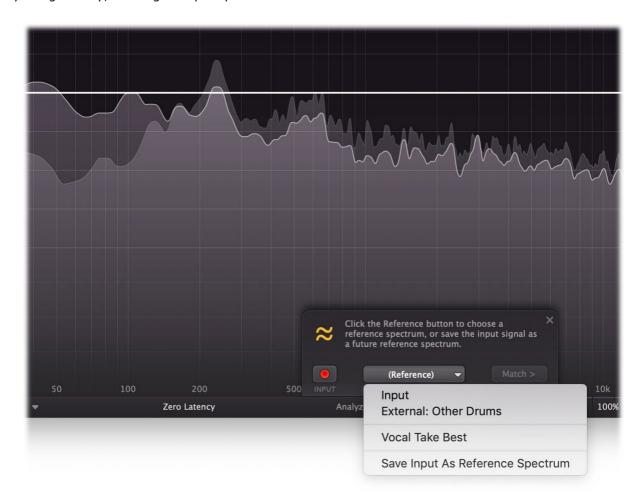
## **EQ Match**

Sometimes, it can be very useful to be able to match the tonal characteristics of a certain reference audio signal. For example, you're in the process of recording vocals, and for some reason you just don't get them to sound like the recordings you made a few days earlier. Or you really like the overall color and sound of a certain mastered song, and want your own track to sound alike.

You can of course add EQ bands and try to find appropriate settings yourself, but Pro-Q offers an automated process to do this for you: EQ Match! It's a simple process that lets you choose or record a reference spectrum, compares it to the spectrum of the current input, and adds new EQ bands to make your audio sound like the reference signal. It gets you 'that' sound in less than a minute.

#### **Step 1: Choose your reference**

Start by clicking the *EQ Match* button in the Analyzer panel, accessible via the Analyzer button in the bottom bar, which opens the EQ Match panel at the bottom of Pro-Q's interface. By default, EQ Match is already listening to plug-in input and starts analysis right away, building an input spectrum.



Click the Reference button to choose a reference source. You have the following options:

#### Select a previously stored Reference Spectrum

Just choose one of your earlier saved reference spectrums and you're ready to match!

To save a spectrum, just add a FabFilter Pro-Q 3 instance to a track that contains the reference audio, open the EQ Match panel, analyze the input for a while and then choose *Save Input As Reference Spectrum* via the Reference button. Once saved, you can select it as a reference immediately in any other Pro-Q 3 instance.

## · Record a reference spectrum via the main plug-in input

Let's say you punched in some new vocals on a track you've recorded a few days ago, and they sound slightly different. In this case, after building the current input spectrum, you can select *Input* as reference, move the playhead to an earlier point in your song that plays the previously recorded vocal, and build a reference spectrum from it. If needed, you can easily switch back and forth to building the original and reference spectrums, toggling the Record/Pause buttons.

## • Use the External Spectrum as the reference

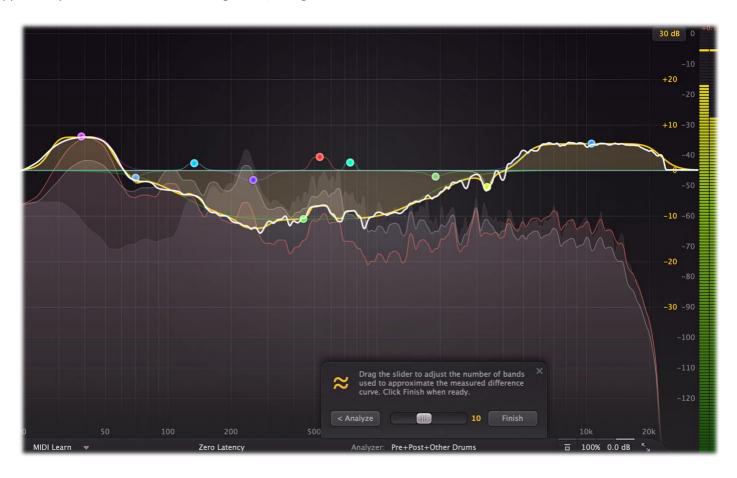
If you have selected an external spectrum in the <u>analyzer panel</u> (which can be the external side-chain input, or the post-EQ spectum of another Pro-Q 3 instance), you can select to use this as the reference spectrum as well. The plug-in will then analyze both original and reference spectrums at the same time. Once it has gathered enough information, the Match button will become enabled and you're ready to proceed. If you haven't selected an external spectrum in advance, the side chain input will shown as an option here.

When you're analyzing input or reference audio, the spectrum averages over time, so after a while (normally this doesn't take more than 30 seconds), you'll notice that the detected average spectrum isn't changing much any more. Once a valid input and reference spectrum have been analyzed or selected, you'll see a thick white line that shows the difference and the *Match* button will automatically become available.

Note: If there's no audio detected at the inputs you've chosen to analyze, either because your DAW isn't running or the side chain isn't connected properly, you will be notified about this.

#### Step 2: Match

After analyzing and clicking the *Match* button, Pro-Q automatically calculates how many and what kind of EQ bands are needed to match the sound of the side-chain audio. EQ Match now proposes a number of new bands, and gives you the opportunity to customize the matching detail, using the slider.



By choosing more bands, even the smallest differences in the analyzed spectrums will be matched, while choosing less bands will only cover the main shape of the difference spectrum. Usually, there's no need to alter this, as EQ Match intelligently chooses the number of bands that is sufficient to match the most important characteristics of the difference spectrum.

If you're happy with the results, simply click the *Finish* button (or click anywhere outside the EQ Match panel), after which the new EQ bands are permanently added. Of course, you can also choose to return to the previous step, by clicking the *Analyze* button.

#### **Notes**

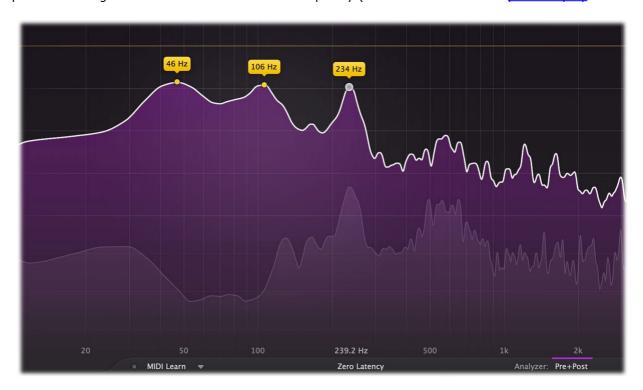
- You might see a warning that no audio is being detected for the input and/or reference, so there's nothing to analyze. This usually happens because either your DAW isn't running or because the main plug-in input or the side chain input isn't properly connected and receiving audio.
- The *Match* button will automatically become available when both a valid input and reference spectrum have been analyzed or selected. Until that time, there's not enough information to match and it will remain disabled.
- EQ Match uses the same resolution as the regular spectrum analyzer. If you need more low-frequency resolution, try setting the **Resolution** parameter in the <u>analyzer settings</u> to *High* or *Maximum*.

Next: Spectrum Grab

See Also Overview External side-chaining Spectrum analyzer Display and workflow

## **Spectrum Grab**

Did you ever wonder how it would be if you could just grab that obvious peak in the frequency spectrum analyzer? That's possible in Pro-Q! If the <u>Post-EQ or Pre-EQ analyzer</u> is active, and you leave the mouse above the spectrum for a few seconds, Pro-Q will automatically enter Spectrum Grab mode. Existing EQ bands will be dimmed while the spectrum freezes. You can now simply grab one of the peaks in the white output spectrum line, and drag to adjust. The most important peaks in the signal will show a label with their frequency (or note value when the piano display is enabled).



After dragging a peak and releasing the mouse button, the interface will revert back to normal again and you'll see the new EQ band that has just been added, so you can customize it if needed.



By default, Spectrum Grab is enabled, but if you find it distracting, you can disable it in the <u>Analyzer Settings</u> panel, accessible via the bottom bar.

#### **Notes**

- You can also activate **Permanent Spectrum Grab** mode by clicking and holding in the spectrum area until the highlight becomes blue. This freezes the spectrum permanently so you can grab and drag multiple spectrum peaks. To exit this mode, simply click on the display background instead of on the white spectrum curve.
- Spectrum Grab works best when the Post-EQ setting is enabled in the <u>Analyzer settings</u>, because this relates best to what you are actually hearing. Spectrum Grab will also work with only the Pre-EQ spectrum enabled, but when you grab and adjust a peak by dragging it down, you won't see this reflected in the spectrum of course.
- In Spectrum Grab mode, only Bell filters are created, and an appropriate Q is determined automatically. Of course, after creating a new band, you can further customize it using the normal <u>band controls</u>.

Next: Output options

See Also
Overview
Spectrum analyzer
Display and workflow

## **Output options**

At the righthand side of the bottom bar in the interface, FabFilter Pro-Q offers a set of global output options.

The **Global Bypass** button lets you bypass the entire plug-in. While most hosts already provide the ability to bypass plugins, our internal global bypass feature is guaranteed to work correctly in <u>Linear Phase or Natural Phase mode</u> (compensating for the latency of the plug-in) and also applies soft bypassing to avoid clicks. While the plug-in is bypassed, the EQ display dims and a red line at the top of the bypass button appears.

As soon as you hover the mouse above the output option button, right next to the bypass button, a panel with various options and a large output/pan knob will pop up, giving you access to the following settings:



- Using the **Phase Invert** toggle button, you can flip the phase of the output signal. While Phase Invert is active, the button becomes blue, and a blue line at the top of the output level button indicates this state as well.
- If **Auto Gain** is enabled, using the button with the 'A' symbol, Pro-Q automatically compensates for increase or loss of gain after EQ'ing. Note that the applied make-up gain is an educated guess based on the current EQ settings, and is *not* a dynamic process based on actually measured levels. While Auto Gain is enabled, the button becomes yellow, and a yellow line at the top of the output level button indicates this state as well.
- Using the **Output Level Metering** button, you can choose to show or hide the level meter at the far right of the interface, which shows the current output level of the plug-in. Note that FabFilter Pro-Q 3 has unlimited internal headroom and will *never* clip itself: the metering indicates clipping only to warn against possible clipping during further processing of the output signal.
- Using the **Gain Scale** slider, just below the gain level/pan knobs, you can scale the effect of the gain settings of all curves by dragging horizontally. This can be very useful when you want to automate the overall effect of the EQ.
  - Note: This only affects the EQ shapes that actually offer a gain setting: Bell and Shelving filters. It will not affect the other filter types.
- The **Output Gain** knob lets you adjust the output level between minus infinity and +36 dB. You can use this to correct any overall level change that the EQ bands might introduce. Note that FabFilter Pro-Q 3 features unlimited internal headroom so it won't clip internally at any level. You only need to be concerned about any clipping that might occur after the signal has left Pro-Q 3.
- The **Output Pan** ring (only visible on stereo tracks) adjusts the relative levels of the left and right, or mid and side audio channels.
- The **Output Pan Mode** (only visible on stereo tracks) selects between normal left/right or mid/side output panning.

#### Tips

- If you would like to enable/disable Auto Gain by default for new instances, simply update the default preset by clicking **Options** > **Save As Default** in the presets menu.
- If desired, you can make the output options panel 'sticky' by clicking the output button once. Click it again to hide the panel.
- You can directly adjust the output gain or the gain scale by clicking and dragging the output button vertically.
- When the output knobs are visible, you can double-click them to be able to enter a value directly using the keyboard.

Next: MIDI learn

See Also Overview

## **MIDI Learn**

Controlling FabFilter Pro-Q 3's parameters directly with MIDI is very easy using the MIDI Learn feature. With MIDI Learn, you can associate any MIDI controller with any parameter.



Click the **MIDI Learn** button in the bottom bar to enter MIDI Learn mode. The interface dims and the parameters that can be controlled are highlighted. Each parameter has a small text balloon that displays the associated controller number. Now do the following to associate a controller number with a parameter:

- 1. Touch the control of the desired parameter in the interface that you wish to control. A red square will mark the chosen parameter.
- 2. Adjust the slider or knob on your MIDI keyboard or MIDI controller that you want to associate with that parameter.

That's it! The parameter will now be controlled with the MIDI controller. You can now go back to step 1 to associate a different parameter. Note that there is no warning when you associate a different knob with a controller number that is already used. It will just be replaced.

To exit MIDI Learn mode, click the MIDI Learn button again, or click Close at the top of the interface.

Click the small menu drop-down button next to the MIDI Learn button to access the MIDI Learn menu:

#### Enable MIDI

This globally turns MIDI control of parameters on or off: useful in hosts that automatically send all MIDI events on a track to all effect plug-ins associated with that track as well.

#### Clear

This submenu shows all parameter associations and lets you delete individual associations or clear all associations in one step.

#### Revert

Reverts to the last saved MIDI mapping (or the state when the plug-in was started).

#### Save

Saves the current MIDI mapping so Revert will go back to this state. The current mapping is automatically saved when closing the plug-in.

## Routing MIDI to effect plug-ins

For MIDI Learn to work properly, the plug-in need to actually receive MIDI of course. Depending on your host, it can be quite difficult to route MIDI data to effect plug-ins. Here's how to do it in the most important hosts:

#### Pro Tools

Create a new **MIDI track**. From the MIDI input drop down menu, choose your MIDI device (if not already selected) and from the MIDI output drop down menu, choose FabFilter Pro-Q 3 -> channel 1 for the instance you would like to control.

#### Logic Pro

Instead of adding FabFilter Pro-Q 3 to one of the insert slots, create a new **Instrument Track**, and click on the Instrument slot. Then choose **AU MIDI-controlled Effects** > FabFilter > Pro-Q 3. Now, the plug-in receives MIDI. To get audio into the plug-in, click the '**Side Chain**' drop down menu in Logic's plug-in header and choose the actual input track. Next, you can mute that original track, so you only hear the audio through the plug-in. The only downside is that plug-ins with an external side-chain cannot use it anymore.

#### Ableton Live

First of all, create a new **MIDI track**. From the 'MIDI from' drop down menu, choose your MIDI device (if not already selected). Then, in the 'MIDI to' drop down menu, choose the Audio track that has FabFilter Pro-Q 3 on it. Note: only the first plug-in on any track can receive MIDI.

#### Cubase

Simply create a new MIDI track and set its output to the Pro-Q 3 instance you would like to control via MIDI.

## Controlling the active EQ band

You can use MIDI Learn in Pro-Q 3 in two ways: either by connecting each knob or slider on your MIDI controller to a specific band (for example connecting it to *Band 1 Frequency* or *Band 3 Gain*), or by setting up one set of controls on your MIDI controller to adjust the active band. The advantage of controlling the active band is that you only need a small amount of controls on your MIDI controller. However, this works only while the plug-in interface is open in your DAW.

- To associate a knob or slider on your MIDI controller with a **specific band**, click the band dot for the band you want to control after entering MIDI Learn mode. The band name drop-down input now shows the band number, for example *Band 1* (like in the screen shot above). Click on a control in the interface. The bar at the top will show the name of the parameter, for example *Band 1 Frequency*. Now turn a slider or knob on your MIDI controller to associate it with this parameter.
- To associate a knob or slider on your MIDI controller with the **active band**, simply don't select a band after entering MIDI Learn mode. The band name drop-down input will show *Active Band*. Click on a control in the interface right away. The bar at the top shows e.g. *Active Band Frequency* as the name. Turn a slider or knob on your MIDI controller to make the association.

In active band mode, you can also connect buttons on your MIDI controller to the **previous/next band** and the **delete band** buttons in the band controls. The button in the interface will be activated upon receiving a controller message of 127 after a previous lower value from the MIDI controller. This allows you to activate a band directly from your MIDI controller.

Note that you can use the band name drop-down input to switch between any specific band or active band mode.

Next: Undo, redo, A/B switch

See Also Overview

## Undo, redo, A/B switch

The Undo and Redo buttons at the top of the FabFilter Pro-Q 3 interface enable you to easily undo changes you made to the plug-in. With the A/B feature, you can quickly switch between two different states of the plug-in.



- The **Undo** button at the left will undo the last change. Every change to the plug-in (such as dragging a knob or selecting a new preset) creates a new state in the undo history. The Undo button steps back through the history to restore the previous states of the plug-in.
- The **Redo** button cancels the last undo command. It steps forward through the history until you are back at the most recent plug-in state.
- The A/B button switches from A to B and back. Before switching, the current state of the plug-in is saved, so if you click this button twice, you are back at the first state. The button highlights the currently selected state (A or B). In the example above, the A state is active.
- The **Copy** button copies the active state to the inactive state. This marks the current state of the plug-in and allows you to go back to it easily with the A/B button. After clicking Copy, the button disables itself to show that both states are equal, so there is nothing to copy anymore.

#### Notes

- If the plug-in parameters are changed without using the plug-in interface, for example with MIDI or automation, no new undo states are recorded.
- The Undo and Redo buttons will disable themselves if there is nothing to undo or redo.

Next: Using on iOS

See Also Overview

## Loading presets

FabFilter Pro-Q 3 comes with a small set of basic presets, giving a good idea of what you can do.

- To load a preset, click the preset button. The presets menu will appear with all available presets. Click a menu item to load that preset. The currently selected preset is highlighted with check marks.
- To explore the presets one by one, click on the little arrow buttons to the left and right of the main preset button. This will load the previous or next preset in the menu.

The preset button shows the name of the current preset. If you have changed the preset by adjusting one or more parameters, the name is dimmed to indicate that this is not the original preset anymore.

#### Tips

- The **Default Setting** preset is loaded automatically when FabFilter Pro-Q 3 is started. To change the default settings, simply overwrite this preset by clicking **Options** > **Save As Default** in the presets menu.
- To open a preset outside the <u>presets folder</u>, click **Options** > **Open Other Preset**. This might be useful if someone sends you a preset by email, for example.
- If somehow the factory presets are lost or not installed properly, click **Options > Restore Factory Presets** in the preset menu to restore them.

## **MIDI Program Change and Bank Select**

Loading a presets can also be done via MIDI, using Bank Select and Program Change messages. Click **Options > Enable MIDI Program Changes** in the preset menu to enable or disable this feature. When enabled, the corresponding bank/program numbers are shown in front of the preset name (for example: (0/65) My Preset). This means that you can load that preset by first sending a Bank Select message to select bank 0 and then sending a Program Change message to select program 65.

**Important:** All the presets in your preset folder are numbered automatically, starting with bank 0 and program 0. This way, you are able to access any of the presets via MIDI. However, this also means that when you add new presets to the menu, bank/program numbers of other presets might change. Be aware of this when recording program changes in a session! We recommend to create a dedicated folder in your presets folder for your program changes, and name it with two leading underscores (e.g. "\_\_Programs") to ensure it's the first folder in your preset collection and the presets in this folder start with bank 0 and program 0.

## **Working with Pro Tools control surfaces**

FabFilter Pro-Q 3 supports the most important Pro Tools hardware control surfaces, such as Avid ICON D-Control and D-Command. Because you need a fixed number of bands in Pro-Q to use this effectively, we have added a *Flat 7 Bands* factory preset that can be used as your personal default preset. To set this preset as FabFilter Pro-Q's startup setting, load it once and then choose **Options > Save As Default** in the presets menu.

Next: Saving presets

See Also
Using on iOS
Overview

## Saving presets

You can easily extend the included presets with new settings to build your own library of presets for FabFilter Pro-Q 3 that you can reuse in various projects. This is also a good way to copy settings across multiple instances of FabFilter Pro-Q 3 in a session.

To save the current setting as a preset, click the preset button, and then click *Save As*. A standard Save dialog will appear. Type a name for the new preset and click *Save* to finish.

In the Save dialog, you can also rename and delete existing presets and create a new folder to store presets in. New folders will show up as new categories in the preset menu. (On macOS, this should be done with the Finder.)

## Right-click shortcut menu

You can also right-click on the preset button to open a small menu with shortcuts:

- Save: Overwrite the currently loaded preset. You will be asked for confirmation before saving.
- Save As: Just like choosing the 'Save As...' item from the main menu.

See <u>How presets are stored</u> to determine the preset folder location and learn more about factory presets.

Next: How presets are stored

See Also Loading presets Overview

# How presets are stored

Presets for FabFilter Pro-Q 3 are stored in separate files with the .ffp extension (for FabFilter Preset). All presets reside in subfolders in the main preset folder. The subfolders will show up as separate categories in the preset menu. You can also further divide the subfolders into categories.

You can manage the preset files just like other files on your computer. The easiest way to do this is in the Save dialog that appears if you are saving a preset. The preset menu will automatically reload itself with the changes when the dialog is closed.

Furthermore it is very easy to share your newly created presets with other users since FabFilter presets use the same file format on both Windows and macOS.

The default location of the main preset folder is *Documents/FabFilter/Presets/Pro-Q 3* on both Windows and macOS. To change this location, first copy all presets to the desired new location. Click **Options > Change Preset Folder** in the preset menu and select the new folder.

Note: previously on macOS, presets were stored in ~/Library/Audio/Presets/FabFilter/FabFilter Pro-Q 3. To determine the current location of the presets folder, click **Options** > **Change Preset Folder** in the preset menu.

## **Restoring factory presets**

If you have accidentally lost the factory presets, you can easily restore them by clicking **Options > Restore Factory Presets** in the preset menu. This will install all factory presets again.

Next: Purchasing FabFilter Pro-Q 3

See Also Saving presets Overview

# **Purchasing FabFilter Pro-Q 3**

Once you have downloaded and installed the evaluation copy of FabFilter Pro-Q 3, you may evaluate it during 30 days. Every time you start the plug-in, you will see the following dialog:



While there are still days left, you can click **Evaluate** to start working with the plugin. If you want to keep using FabFilter Pro-Q 3 after the evaluation period, you must buy a copy in the online FabFilter Shop by clicking the **Buy Now** button in the evaluation dialog.

• Go to the FabFilter Shop and purchase FabFilter Pro-O 3 now

We accept a wide range of payment methods, like credit cards, PayPal, wire transfer and iDeal. The FabFilter Shop uses secure connections and encryption: therefore your personal information is completely safe.

Within a few minutes after you have purchased your copy, you will receive an email containing your personal license key. You use this license key to turn the evaluation copy into a fully registered version without the evaluation dialog and the 30-day trial restriction. In addition, we will automatically create a <u>FabFilter account</u> of for you (if you don't have one already). Here, you can access all your license keys at any time.

**Note**: If the evaluation period has expired but you didn't have the chance to properly evaluate the plug-in, you can request a new evaluation period by contacting us at <u>info@fabfilter.com</u> 

...

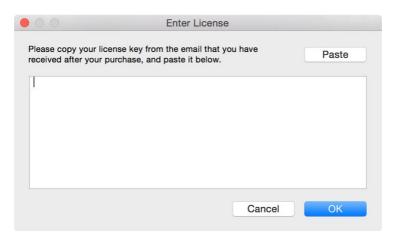
Next: Entering your license key

See Also Support License agreement

# **Entering your license key**

After you have purchased FabFilter Pro-Q 3 in the online <u>FabFilter Shop</u> , you will immediately receive an email containing your personal license key. This license key will turn the evaluation version into a fully registered plug-in.

- Start FabFilter Pro-Q 3 and click **Enter License** in the evaluation dialog, or click Enter License on the Help menu if the plug-in is already running.
- Copy the license information from the email you have received and paste it into the text field. Make sure that you are copying the entire license key including the *Product* and *Licensee* lines! If you are not sure what text to copy, just copy and paste the whole email.



After you have entered your license information, you will need to restart the plug-in host, so make sure you save your settings if needed. From now on, you will be able to use FabFilter Pro-Q 3 for an unlimited period of time with full support via email.

### **Tips**

- After your purchase, you can always retrieve your license key again by logging into your <u>personal FabFilter account</u>
   Here you can also keep track of all your orders and take advantage of great discounts when buying other FabFilter plug-ins.
- To deauthorize your license key and remove it from the computer, click **Deauthorize** on the Help menu. If you temporarily needed to install your license on another computer, or if you have transferred your license to someone else, this is the way to deinstall your personal license key safely.

Next: Support

See Also

Purchasing FabFilter Pro-Q 3

Support

License agreement

# **Support**

If you need help with problems or questions, and the help file does not provide an answer, please visit the support pages on our web site.

## • Go to FabFilter Support

From here, you have direct access to the customer support forum, very useful tutorial videos for all FabFilter plug-ins, online and PDF versions of all our help files, and a section with extra downloads (such as presets, controller templates, older plug-in versions).

For sales-related questions and technical support, you can also contact FabFilter directly at info@fabfilter.com.

### Reporting a bug

If you have encountered a bug in FabFilter Pro-Q 3, first of all make sure that you are using the latest version of the plugin, which you can find at <a href="www.fabfilter.com/download">www.fabfilter.com/download</a>. You can easily check the version of FabFilter Pro-Q 3 that you are using by clicking Help > About in the plug-in interface. If the bug is still present in the latest version, please send us an e-mail at <a href="mailto:info@fabfilter.com">info@fabfilter.com</a> and include as much technical information as possible: operation system and version, host software and version, steps to reproduce the bug, etc. Thanks in advance!

Next: Upgrading to Pro-Q 3

See Also Overview About FabFilter

# **Upgrading to Pro-Q 3**

Upgrading from Pro-Q version 2 or 1 to the new Pro-Q 3 is safe and easy: installing Pro-Q 3 will **not** replace or delete the previous Pro-Q 1 or Pro-Q 2 plug-ins. Different major versions will co-exist and can be used at the same time. This ensures that you can open old songs that use Pro-Q 2 or Pro-Q 1 without problems!

## Presets from version 1 or 2

All presets created with Pro-Q 1 or 2 can be loaded in Pro-Q 3. If you upgraded to the new version, your original presets v1 and v2 presets will be accessible via the **V1 Preset Folder** and **V2 Preset Folder** items in the preset menu. See also <u>Loading presets</u>.

Note: Because the processing engine in Pro-Q has been renewed and improved, it's possible that a Pro-Q 1 preset loaded into Pro-Q 3 sounds slightly different.

## Replacing a Pro-Q 1/2 instance by Pro-Q 3

If you are working on a song and want to replace a Pro-Q version 1/2 instance with the new Pro-Q 3, we advise you to do the following:

- First, save the current setting of the instance as a FabFilter preset in the Pro-Q 1/2 preset folder.
- Then, remove the old Pro-Q instance and add Pro-Q 3 in its place.
- Finally, load the preset that you just created into Pro-Q 3 via the V1/V2 Preset Folder submenu in the preset menu.

#### **Automation**

Because the feature set of Pro-Q 3 has changed fundamentally, any automation data that has been written by a Pro-Q 1 or Pro-Q 2 instance **cannot be read correctly** by Pro-Q 3.

Next: Manual installation

See Also Overview Support

## **Manual installation**

When installing FabFilter Pro-Q 3, the installation program will try to copy the plug-in into the appropriate plug-ins folders, and in most cases your host will recognize FabFilter Pro-Q 3 automatically. Otherwise, please follow these instructions:

#### Windows

On Windows, most hosts have their own VST plug-ins folder. So if you are using Windows and your host does not recognize FabFilter Pro-Q 3, you need to locate the proper plug-ins folder for your host first (it is usually shown in the Preferences or similar dialog). Then, copy the file FabFilter Pro-Q 3.dll from C:\Program Files\FabFilter\Pro-Q 3 (or C:\Program Files (x86)\FabFilter\Pro-Q 3 if you are using a 32-bit host on 64-bit Windows) to the plug-ins folder that you have found and restart the host so it can reload all its plug-ins. The VST3, CLAP, and AAX plug-ins are installed in the standard plug-in folders on your computer.

You can simply uninstall plug-ins or bundles via the Control Panel.

### macOS

On macOS, plug-ins are installed in the standard plug-in folders in the system Library folder. These are the *only* possible correct locations:

- Audio Units: /Library/Audio/Plug-Ins/Components
- VST/VST3: /Library/Audio/Plug-Ins/VST and /Library/Audio/Plug-Ins/VST3
- CLAP: /Library/Audio/Plug-Ins/CLAP
- AAX: /Library/Application Support/Avid/Audio/Plug-Ins

Note: AU and VST/VST3 plug-ins may also be placed in the user's Library folders under /Users/<username>/Library/Audio/Plug-Ins.

To uninstall the plug-ins from your Mac, you can just delete the specific FabFilter plug-in files at the above locations. Finally, if you really want to delete all data written by our plug-ins, you can remove the following folders/files as well:

- /Users/<username>/Documents/FabFilter/Presets/Pro-Q 3
- /Users/<username>/Library/Audio/Presets/FabFilter/FabFilter Pro-Q 3
- /Users/<username>/Library/Application Support/FabFilter/Pro-Q 3
- /Users/<username>/Library/Preferences/com.fabfilter.Pro-Q.3.plist

**Note**: Since OS X 10.7 (Lion), the system and user Library folders are marked as hidden by default. To make them visible again in Finder, open Terminal (found in /Applications/Utilities) and enter the following commands:

```
chflags nohidden /Library chflags nohidden ~/Library
```

If you still have problems, contact FabFilter Support ...

Next: VST plug-in versions

See Also
Quick start
Support

# **VST plug-in versions**

FabFilter Pro-Q 3 is available in both VST 2 and VST 3 formats. They can be installed and used both at the same time. The VST 3 format offers easy side-chaining, free interface resizing, and is more CPU-friendly in some cases, but it can only be used by hosts that support it, for example recent versions of Cubase, Studio One or FL Studio. The VST 2 format is compatible with a larger variety of hosts.

Both the VST 2 and VST 3 versions of the plug-in automatically adapt themselves to the channel layout of the track they are inserted on (mono/stereo and surround).

Next: External side chaining

See Also Quick start Manual installation

# **External side chaining**

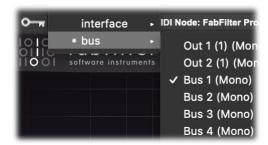
FabFilter Pro-Q 3 offers the possibility of feeding an external signal to its side chain, so that you can make it trigger on a different signal than the audio it is actually processing. Feeding a signal to a plug-in's side-chain inputs works slightly different in various hosts. This topic describes the procedure for some of the most popular hosts around: <a href="Pro-Tools">Pro Tools</a>, <a href="Studio One">Studio One</a>, <a href="Ableton Live">Ableton Live</a>, <a href="Logic Pro">Logic Pro</a> and <a href="Cubase">Cubase</a>.

To explain how it works, we use a scenario with two tracks. The first one contains the audio that we want to process with Pro-Q 3, which we'll call the *main track* from now. The second track contains the audio that we want to route to Pro-Q 3's external side-chain input and use as trigger signal. We'll call this track the *side chain track*.

After setting up everything according to the instructions below for your host, you can check whether everything is routed correctly. Play the audio and make sure you've chosen the 'Side Chain' item from the external spectrum list in the <u>Analyzer panel</u>. Confirm that FabFilter Pro-Q 3 shows the side-chain spectrum now.

### **Pro Tools**

- Open Pro Tools and start a new empty session.
- Create two audio tracks that we'll use as main track and side chain track. Add audio files to both track.
- Open the Mix window to display the tracks with their Insert slots and Sends slots.
- In the first 'Sends' slot of the side chain track, choose 'Bus 1'. The track view for Bus 1 will open: set its level slider to 0.0 dB so the bus actually produces audio!
- In the first 'Inserts' slot of the main track, choose EQ > FabFilter Pro-Q 3.
- Open FabFilter Pro-Q 3's interface and choose the 'Side Chain' item from the external spectrum list.
- Now, in the 'Key Input' menu of the plug-in interface (just above the FabFilter logo), choose bus > Bus 1 instead of
  the default 'no key input'. Now, the audio from the side chain track is routed to Pro-Q 3's external side chain input
  via Bus 1.

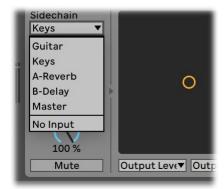


## **Studio One**

- Open Studio One and choose 'Create a new song'.
- Add two audio tracks (via Track > Add Tracks...) that we'll use as main track and side chain track.
- Add audio files on both the main track and the side chain track. You can simply drag audio files from a Finder/Explorer window onto a track.
- Access the mix window via "Mix" in Studio One's bottom right corner.
- Insert FabFilter Pro-Q 3 on your main track via the '+' button next to the Insert tab.
- Open FabFilter Pro-Q 3's interface and choose the 'Side Chain' item from the external spectrum list.
- On the side chain track, select Sends > Sidechains > FabFilter Pro-Q 3.



- Open Ableton Live and start with an empty arrangement. We'll use Track 1 as the side chain track and Track 2 as the main track.
- From the folder menu's on at the left top of Ableton Live's interface, drag different audio clips to the first empty slots of Track 1 and Track 2.
- From the VST (or Audio Units) plug-in menu, also at the left top of Ableton Live's interface, drag FabFilter Pro-Q 3 onto Track 2, the main track.
- In the small device interface for Pro-Q 3 in the bottom Effects section, choose 'Track 1' from the 'Sidechain' drop down menu.
- Open FabFilter Pro-Q 3's interface and choose the 'Side Chain' item from the external spectrum list.
- Note: In earlier versions of Ableton Live (< 10.1), setting up sidechaining worked differently, which is described here ☑.



## **Logic Pro**

- Open Logic Pro and create a new empty project via File > New...
- Add two audio tracks (via Track > New...) that we'll use as main track and side chain track.
- Add audio files on both the main track and the side chain track. You can simply drag audio files from a Finder/Explorer window onto a track.
- Select the main track and add Pro-Q 3 in the first Insert effect slot.
- Open FabFilter Pro-Q 3's interface and choose the 'Side Chain' item from the external spectrum list.
- In the right top corner of the plug-in interface header, in the 'Side Chain' menu, choose the side chain track. Now, the signal from the side chain track is sent to FabFilter Pro-Q 3's external side-chain input.



### Cubase

- Open Cubase and create a new empty project.
- Add two audio tracks that we'll use as main track and side chain track.
- Add audio files on both the main track and the side chain track. You can simply drag audio files from a Finder/Explorer window onto a track.
- Open the Mixer. In the main track, click on an empty insert slot and select the VST 3 version of FabFilter Pro-Q 3 in the EQ menu (note the VST 3 icon which looks like ///).
- Open FabFilter Pro-Q 3's interface and choose the 'Side Chain' item from the external spectrum list.
- In the plug-in header, click on the Activate Side-Chain button (right of the R/W buttons) to enable the external side
  chain in Cubase.
- At the top of the Mixer, set the output for the side chain track to the side-chain input of FabFilter Pro-Q 3.

Next: License agreement

See Also Ouick start

# **Manual installation**

# **FabFilter Software License Agreement**

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Next: Acknowledgements

See Also

Purchasing FabFilter Pro-Q 3

Support

# **Acknowledgements**

A huge thanks to all our beta testers for their relentless testing of the different beta versions! Special thanks go to bManic and Dan Worrall for their work on the factory presets.

Furthermore we would like to thank all our users for their support and loyalty over the years. You have made this new version of Pro-Q possible.

Next: About FabFilter

See Also

Purchasing FabFilter Pro-Q 3

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## **About FabFilter**

Beautiful sound. Fantastic workflow. These are the foundations of FabFilter. We create powerful audio plug-ins with superb sound quality and innovative interfaces.

### A unique perspective

At FabFilter, we make the best possible tools for music production and audio processing. To achieve this, we continually rethink and challenge industry standards: we've never been afraid of reinventing the wheel. Considering every little detail, we tune our algorithms and interfaces until they sound perfect, look amazing and feel great to work with.

### It's the sound that counts

Above everything else, you need superb sound quality. That's why we put a lot of effort into developing unique audio processing algorithms, ranging from our famous resonating filters to transparent high-end EQ and dynamics processing.

### Innovative interfaces, great design

Every FabFilter plug-in has an easy-to-use, well-designed interface aimed at providing unsurpassed workflow. Our plug-ins focus on the task you're performing at that specific moment: they expose the features you need, when you need them. And because of our special attention to design, you'll be delighted every time you open a FabFilter plug-in.

### Don't take our word for it

We always set the highest standard for sound quality, usability and design to make truly great products that raise the bar on what audio software can do. That's why we're very happy with the praise we've received from users and press alike:

"In the decade since the release of its first plug-in, One, FabFilter has made an indelible mark on the music production landscape." — Computer Music magazine

"While many other software developers are busy trying to model hardware, FabFilter is leaving them in the dust by being visionaries and reaching into the future. FabFilter stuff is just on another level." — Jeff Sanders

"FabFilter has an enviable reputation for making easy-to-use, powerful tools." — Music Tech magazine

FabFilter was founded in 2002 by Frederik Slijkerman and Floris Klinkert, and is based in Amsterdam, The Netherlands.

### See Also

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