

EQDELUXE

• STUDIO EQUALISER & DRIVE •

OWNER'S MANUAL



www.origineffects.com

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Safety Notices:

General Information:

This document contains important information for the safe operation of the product. Read and follow the safety instructions and all other guidance. Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is available on our website <https://origineffects.com/manuals/>.

Keep these instructions and heed all warnings. Do not use this apparatus near water. Clean only with a dry cloth. Do not install near any heat sources such as radiators, stoves or other apparatus (including amplifiers) that produce heat. Refer all servicing to qualified service personnel.

**NOTICE!**

Damage may be caused to the device should it be tampered with!

No user-serviceable parts inside. In the event of damage to the unit, service or repair must be done by qualified service personnel only.

Symbols and signal words:

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal Word	Meaning
DANGER!	This combination of symbol and signal word indicates a dangerous situation that could result in serious injury or even death if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a potentially dangerous situation that could result in serious injury or even death if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a potentially dangerous situation that could result in material and/or environmental damage if it is not avoided.

Warning Symbol	Meaning
	Warning - dangerous situation

Safety Instructions:

Intended use:

This device is intended for use as an effects pedal for sound processing of signals from musical instruments with electromagnetic pickups. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

Safety:



DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Never allow children to play with packaging material or the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such as knobs, rubber feet) that children could play with.



WARNING!

Possible hearing damage due to high volumes on speakers, headphones, bass & guitar amplifiers!

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level.

Decrease the volume level immediately if you experience ringing in your ears or hearing impairment and seek medical advice.



NOTICE!

Damage to device if powered incorrectly!

This product is designed to be powered from a 9VDC, >65mA power supply with 2.1mm centre-negative barrel connector. Use of an incorrectly rated power supply could result in damage to the pedal and the power supply.



NOTICE!

Possible staining due from rubber feet!

The plasticiser used in the manufacture of the rubber feet on this product may react with floor coatings and result in permanent dark stains after some time. If necessary, use a suitable mat to prevent direct contact between the device's rubber feet and the floor.

Introducing the EQDELUXE

The EQDELUXE is a 3-band inductive EQ based on the 1950s Pultec EQP-1a studio EQ and optimised for guitar and bass.

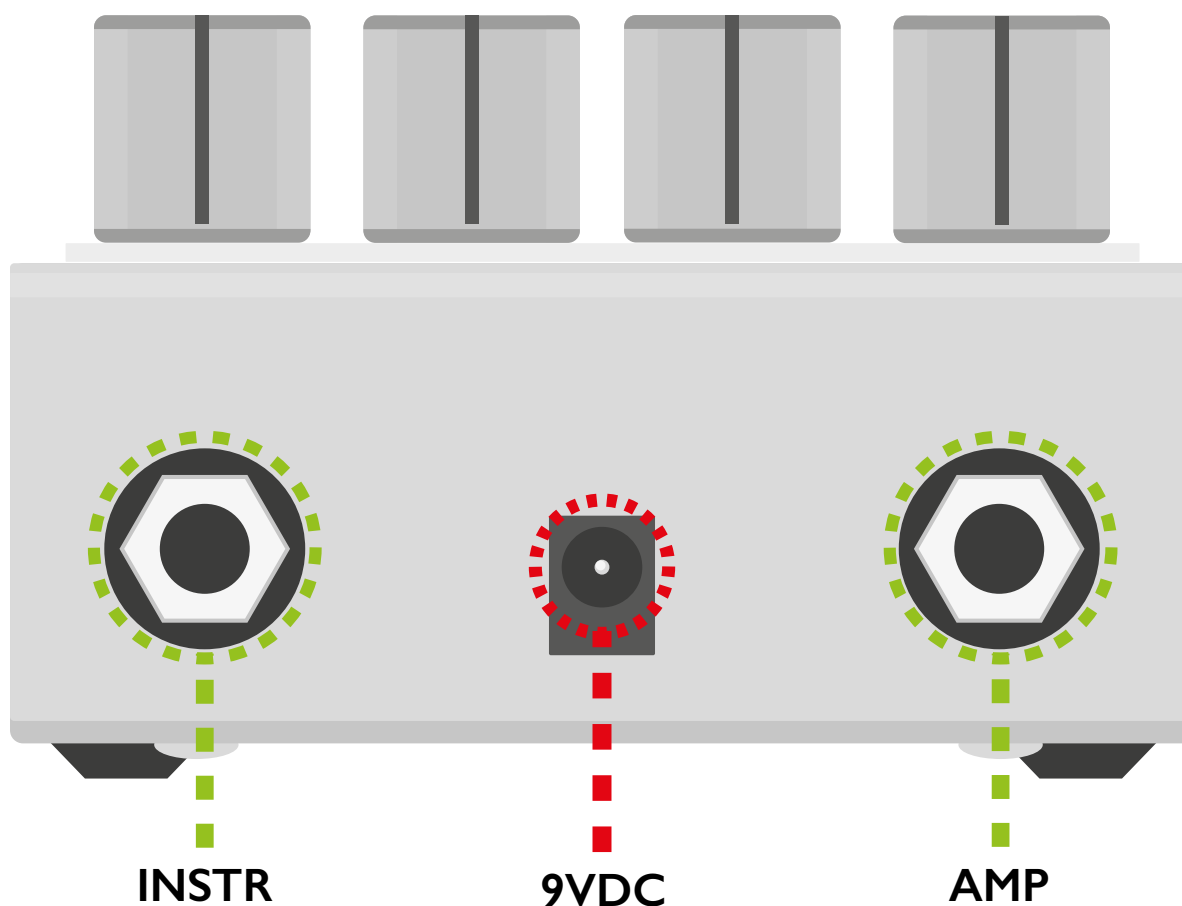
The Pultec EQP-1a has remained a mainstay of high-end audio production for several decades thanks to its musical EQ curves, the subtle saturation of its push-pull valve output stage, and the famous “Pultec Low-End Trick”, which instantly adds weight in the bass frequencies. This makes it an engineer’s first choice for bass, but it’s a piece of equipment that improves any signal chain just by being there, adding charm, character and useful tone-shaping.

The EQDELUXE recreates this beloved studio piece for bass and guitar, with carefully chosen EQ frequencies, a little extra saturation and some further tweaks that help it fit right into your pedalboard.

Key Features:

- Based on the legendary Pultec EQP-1a Studio EQ
- All-analogue inductive EQ circuitry
- Frequencies carefully selected for bass and guitar
- Push-pull drive circuitry for subtle, studio-style saturation
- High-headroom design compatible with audio interfaces and mixing consoles
- High-quality buffered bypass
- Premium components throughout
- Designed and built in England

Connecting Your EQDELUXE



9VDC: Connect a 9VDC 2.1mm centre-negative mains power adaptor (minimum 65mA).



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INSTR: Connect to your bass, guitar or other instrument.

AMP: Connect to your amp, DI or audio interface.



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With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment and seek medical advice.

Signal Chain Placement

The EQDELUXE can be used anywhere in the signal chain, before or after overdrive, or in the FX Loop of an amp. When the EQDELUXE is being used later in the chain, it will give the best and most predictable results when set clean.

When the EQDELUXE is being used early in the chain, high levels of boost in the low frequency band may overwhelm subsequent drive pedals/amps and result in an indistinct tone.

For bass use, just an EQDELUXE and a DI box can make a very professional sounding rig! And the EQDELUXE has enough headroom to be used as studio outboard, when connected to an audio interface or the insert of a mixer channel strip.

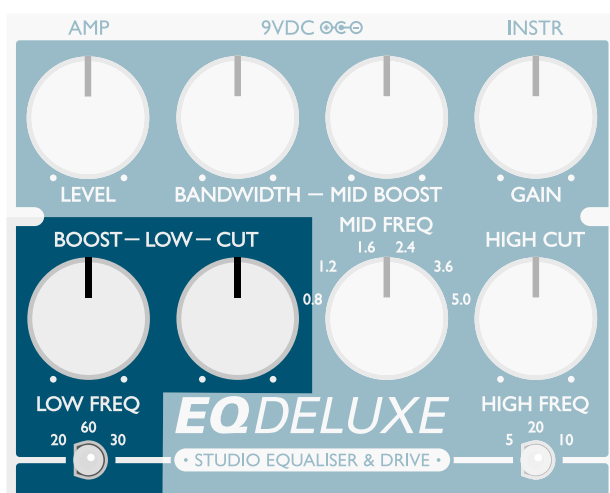
EQDELUXE Controls



GAIN: This controls the input signal level. This pedal is designed to mimic the subtle overdrive in the Pultec's push-pull valve output stage, so turn this control clockwise for more saturation. For maximum clean headroom, set the GAIN fully anticlockwise and turn up the LEVEL control.

LEVEL: Sets the overall output level from the pedal, with no effect on tone or saturation. With the GAIN control at minimum, unity gain can be found at 2 o'clock on the LEVEL control. When set fully clockwise, this control adds 8dB of boost.

LOW Frequency Band



The low frequency band has individual cut and boost controls, combined with a 3-position frequency switch.

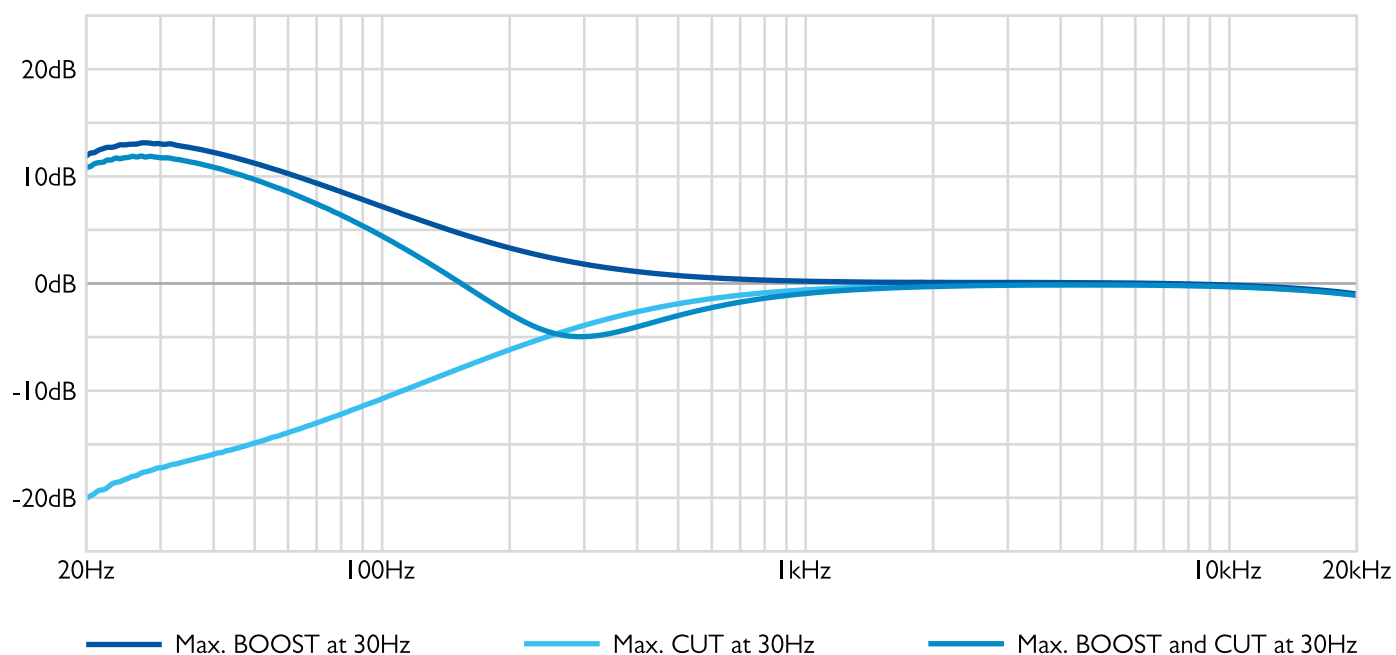
LOW BOOST: Increases low frequencies with a broad shelf curve.

LOW CUT: Reduces low frequencies with a broad shelf curve.

LOW FREQ SWITCH: Selects a frequency of 20Hz, 30Hz or 60Hz for the LOW BOOST and LOW CUT controls.

Using the BOOST and CUT controls simultaneously results in a unique EQ curve, combining a bass boost and low-mid cut. This is known as the “Pultec Trick”, a popular studio technique which adds weight to the low end while maintaining clarity in the midrange.

NOTE: When boosting and cutting simultaneously, the resulting low-mid cut occurs at around 10 times the selected frequency. For example, boosting and cutting at 30Hz gives you a mid cut at around 300Hz.



MID Frequency Band



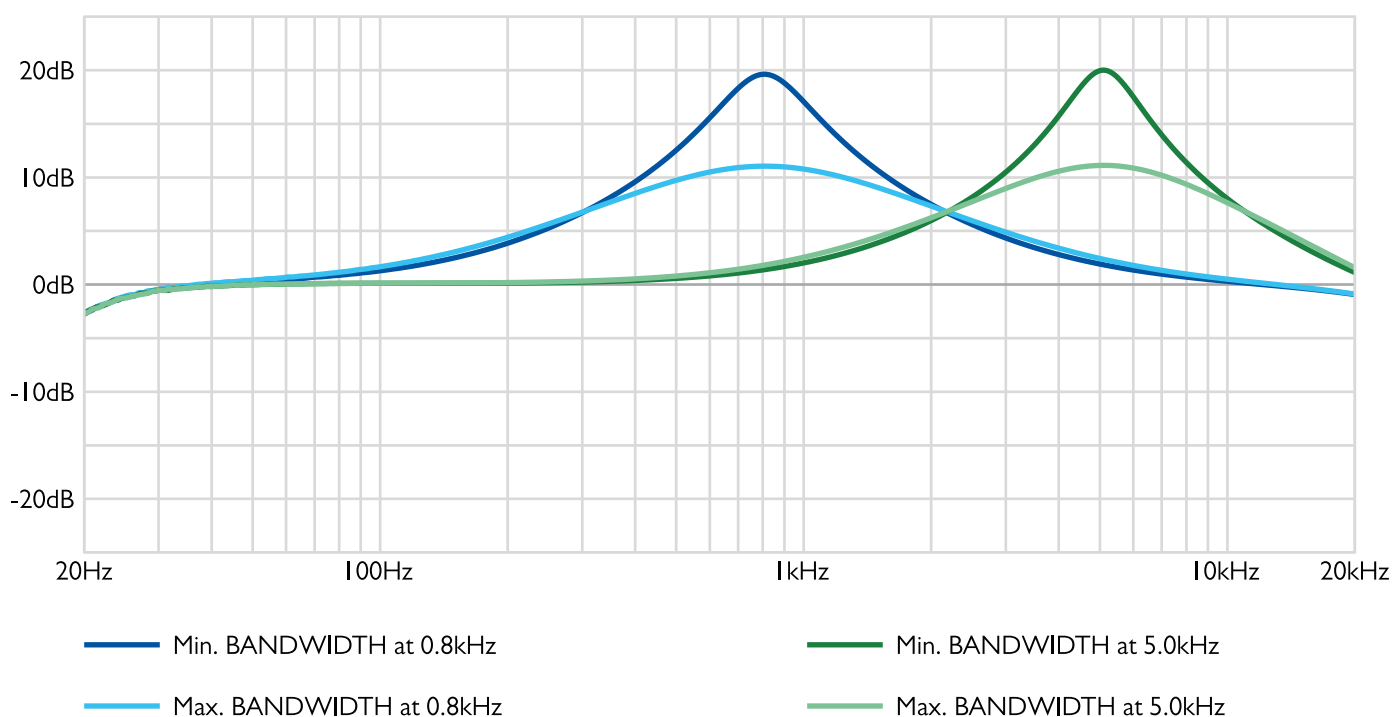
The mid frequency band provides a versatile midrange boost, with a wide range of frequencies carefully chosen for bass and guitar.

MID BOOST: Increases the level of the selected mid frequency.

BANDWIDTH: Adjusts between a sharp, resonant boost in the fully counterclockwise position to a broad, gentle bell curve in the clockwise position. Sharper settings also result in a greater level of boost.

MID FREQ SWITCH: Selects a mid boost frequency of 0.8kHz, 1.2kHz, 1.6kHz, 2.4kHz, 3.6kHz or 5.0kHz CUT controls.

Boosting higher frequencies adds presence and detail to bass guitar. Boosting lower frequencies is great for emphasising guitar leads and driven tones. Because this EQ band is positioned before the overdrive stage in this pedal, big boosts in the mids will also result in more drive at the selected mid frequency, when the GAIN control is set high.



HIGH Frequency Band



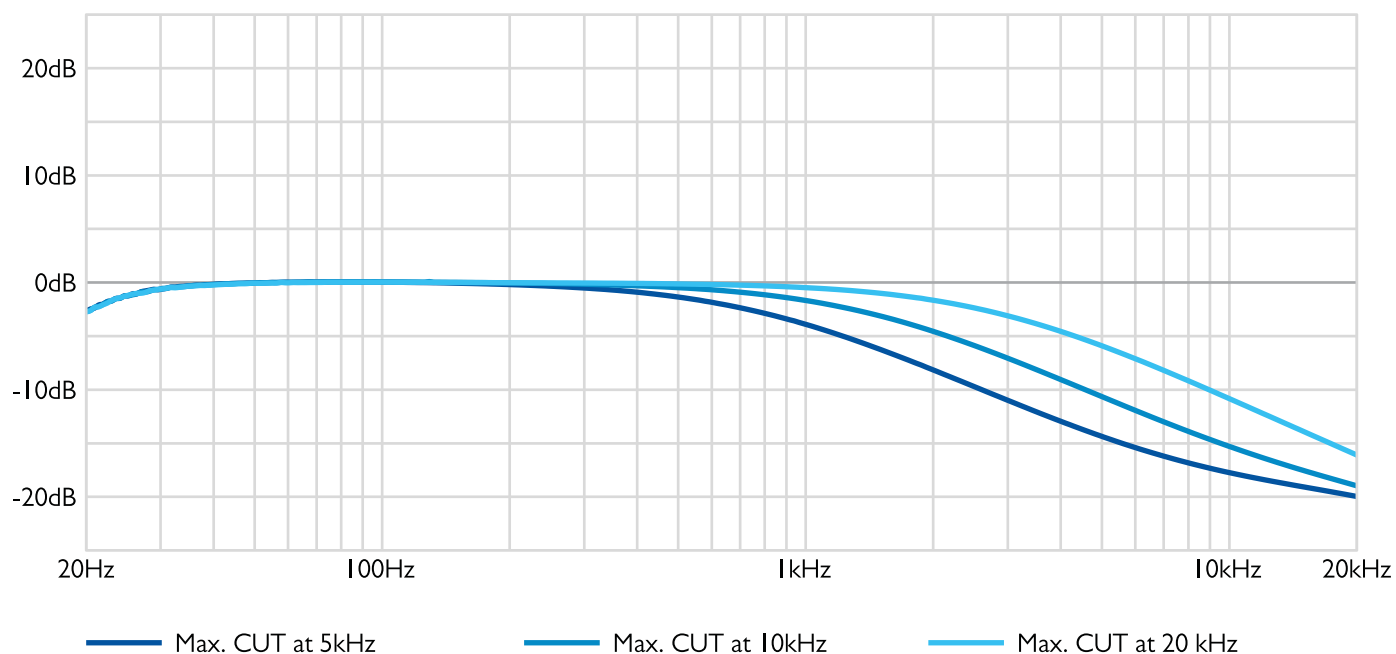
In the EQDELUXE, the high frequency band is placed after the drive stage. This differs from the original Pultec EQs, in which all the EQ bands are before the push-pull output stage, where the overdrive takes place. We have chosen to deviate from the original design to further optimize the EQDELUXE for bass and guitar.

In a bass or guitar context, the extra harmonics created by an overdriven signal can be perceived as harsh or “fizzy”, so the HIGH CUT attenuates after these harmonics have been created. This means you can push the EQDELUXE into mild saturation, while keeping any “fizz” in check. This is especially useful for DI bass tones, where you want to add character but don’t want the tone to be obviously overdriven.

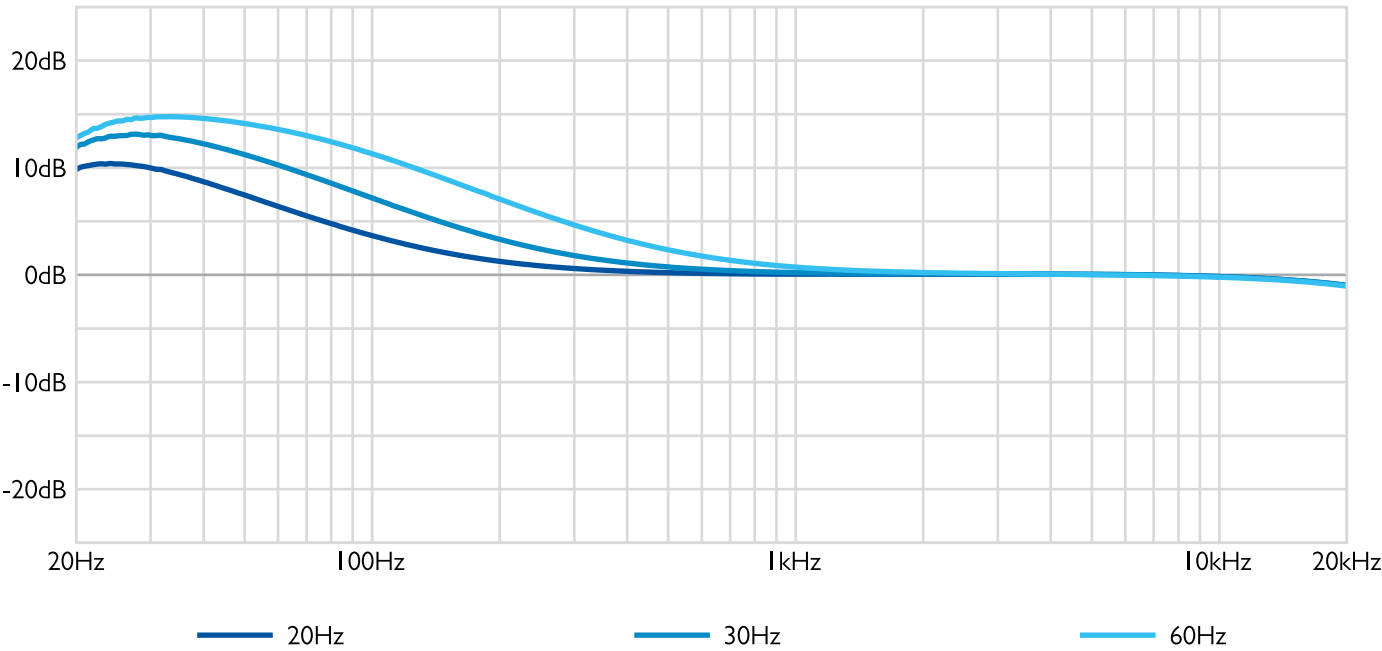
This also means the HIGH CUT and MID BOOST can interact more predictably than in a real Pultec, which can become resonant and “spiky” when combining big EQ tweaks in the MID BOOST and HIGH CUT.

HIGH CUT: Reduces high frequencies with a broad shelf curve.

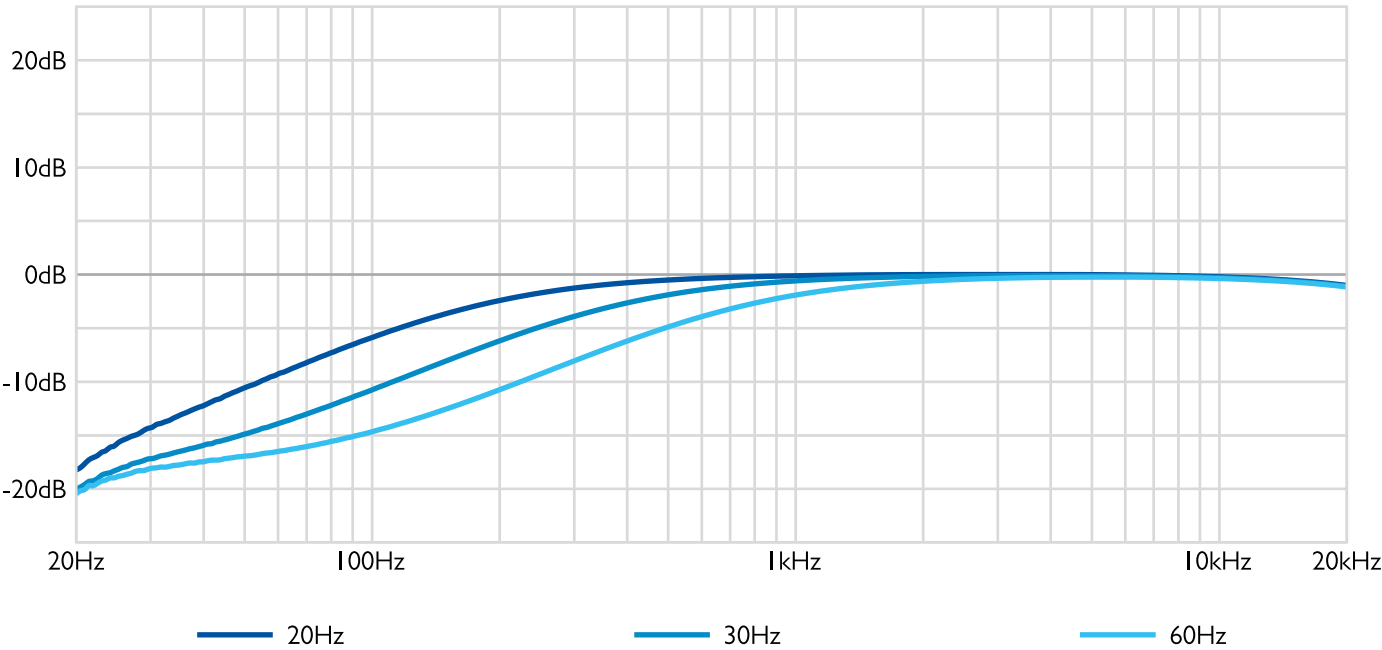
HIGH FREQ SWITCH: Selects a frequency of 5kHz, 10kHz or 20kHz for the HIGH CUT control.



EQDELUXE Frequency Plots

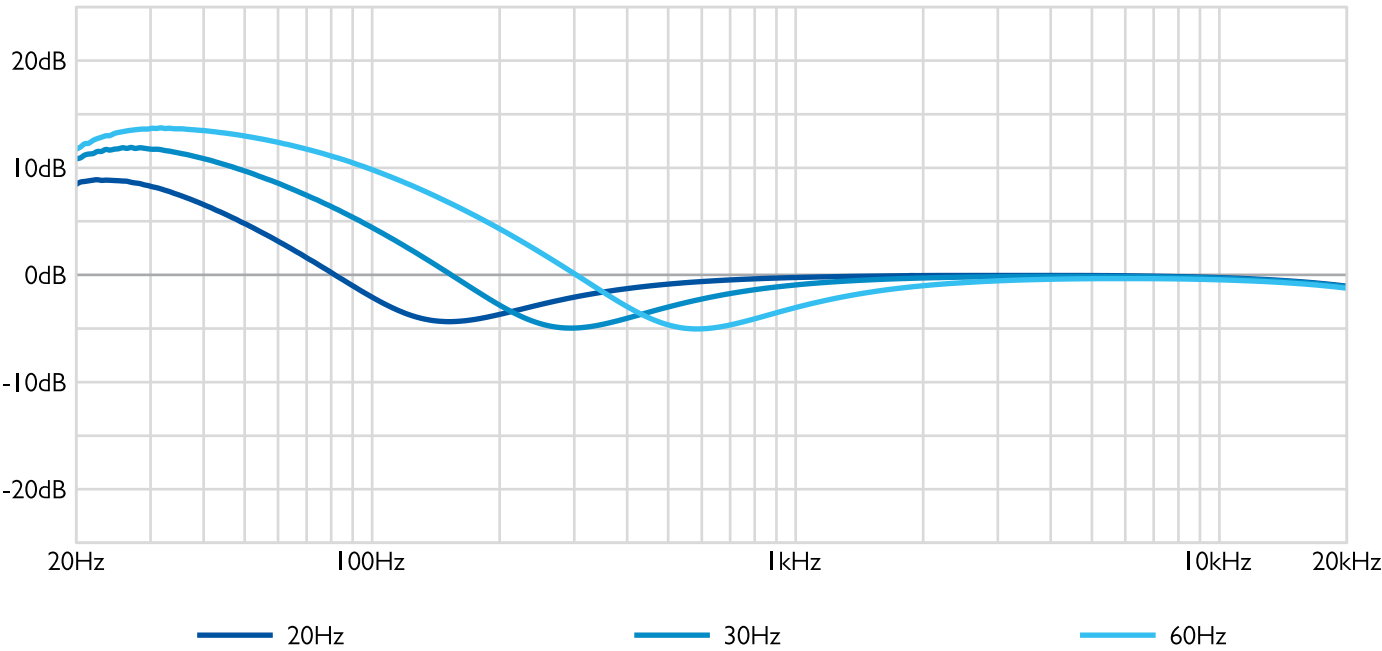


Low Frequencies with LOW BOOST at Maximum

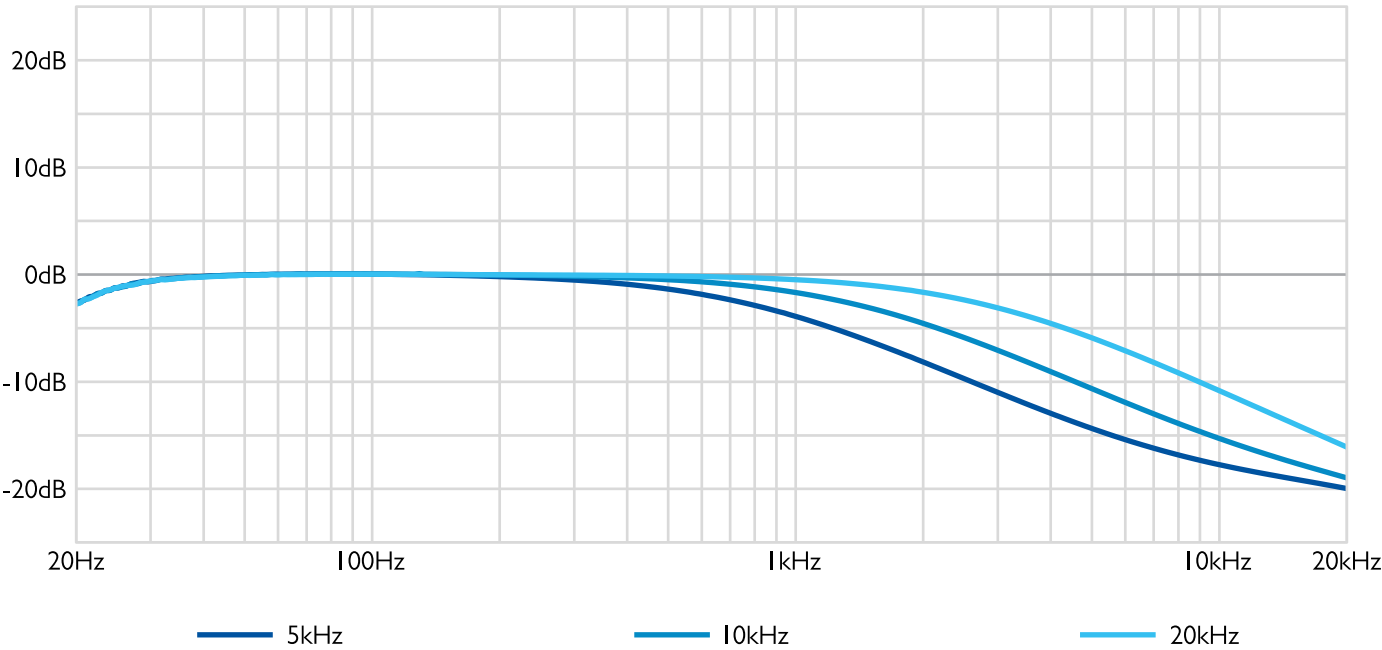


Low Frequencies with LOW CUT at Maximum

EQDELUXE Frequency Plots (Continued)

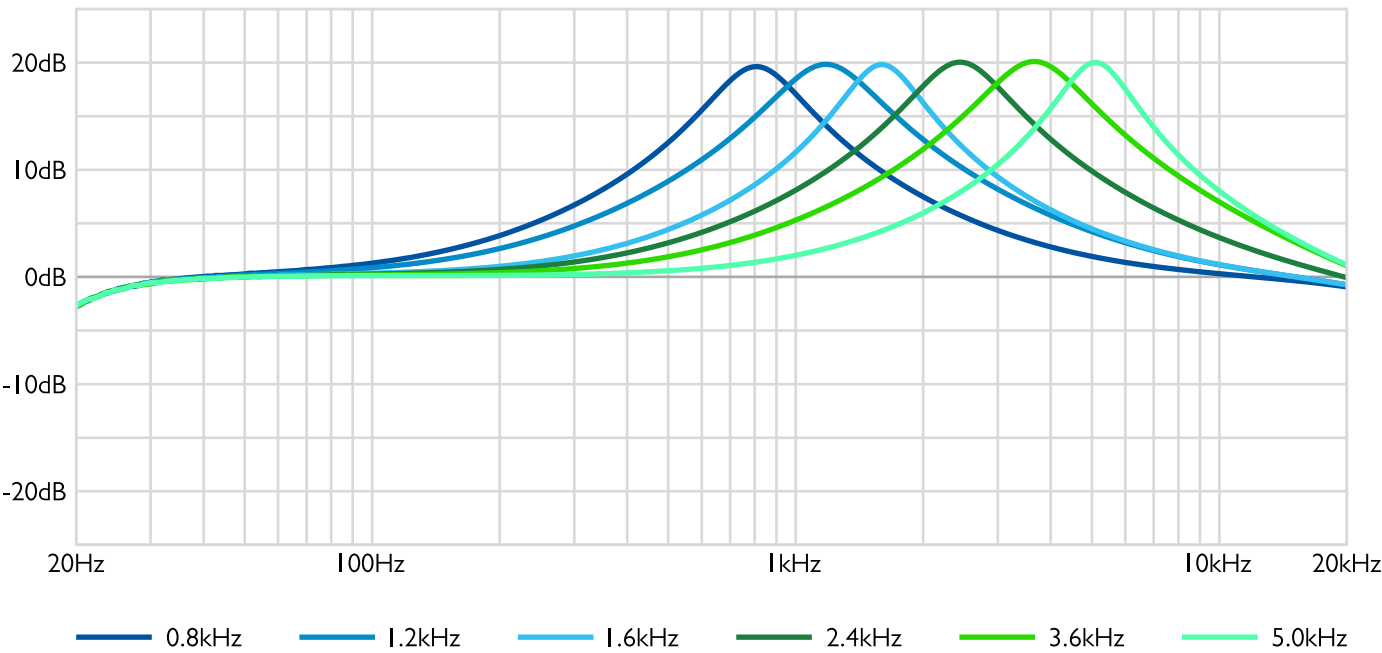


Low Frequencies with LOW BOOST and LOW CUT at Maximum

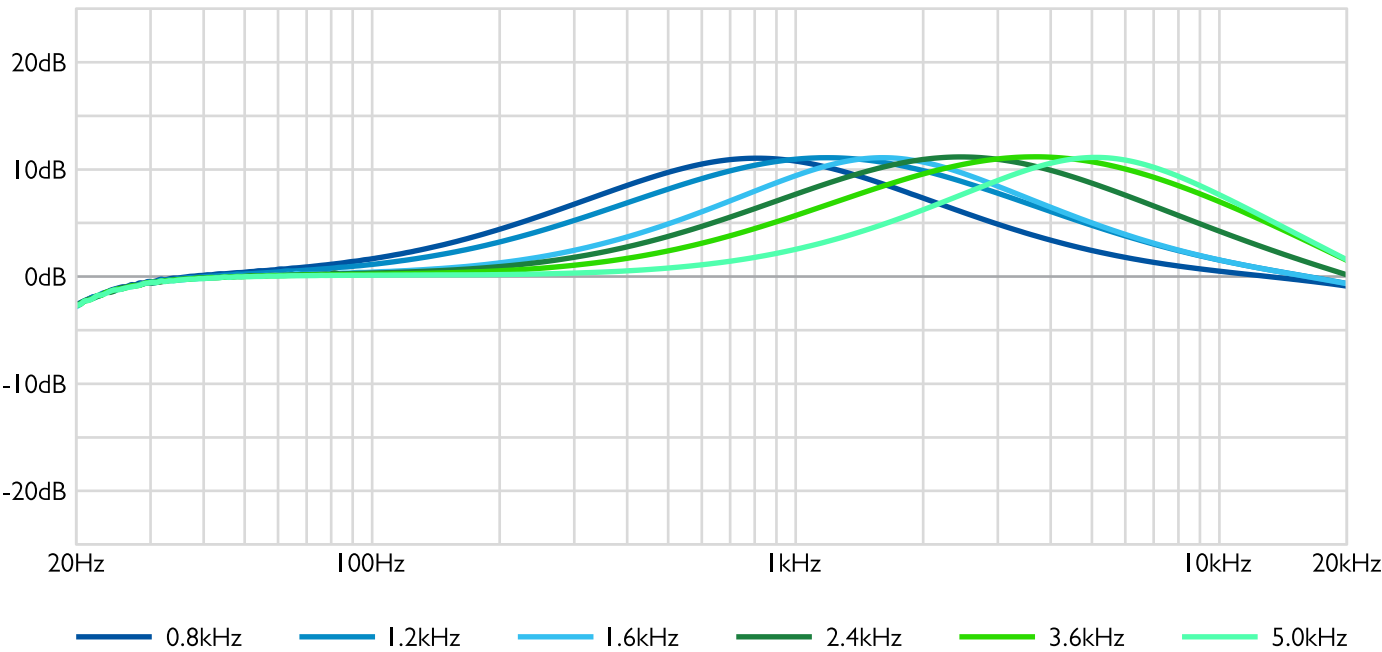


High Frequencies with HIGH CUT at Maximum

EQDELUXE Frequency Plots (Continued)



Mid Frequencies with MID BOOST at Maximum and BANDWIDTH at Minimum



Mid Frequencies with MID BOOST and BANDWIDTH at Maximum

Sample Settings



BASS - THE PULTEC TRICK

The definitive “Pultec Trick”. Boosting and cutting at 30Hz adds weight in the low end while GAIN is increased for studio-style saturation. With a boost at 2.4kHz for extra presence, this tone cuts through the mix while leaving space for other instruments.



BASS - POP ROCK PUNCH

This setting adds a little drive and growl and works great into a bass amp or a vintage amp-style preamp. A big boost at 0.8kHz and a cut at 60Hz keeps things sounding tight and defined for an instant retro, rocking bass tone!



GUITAR - BIG SINGLE COILS

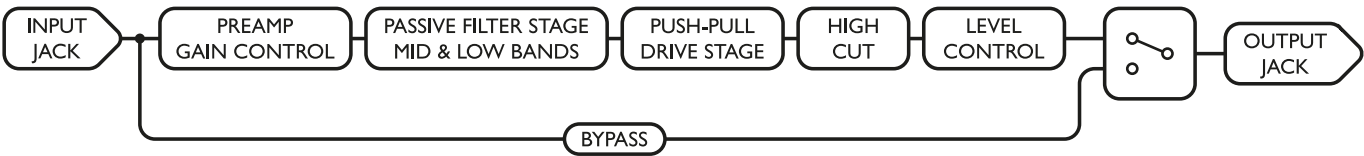
This setting fattens up single coil pickups. A 60Hz boost and cut results in a mid scoop at 600Hz, creating a warm yet clear rhythm guitar tone. A 5kHz high cut removes spiky treble frequencies for a full-sounding single coil tone.



GUITAR - MID-FORWARD DRIVE

A slightly overdriven, mid-forward boost for pushing an amp on the edge of breakup. A broad 0.8kHz boost gives a familiar drive tone with more control over the EQ shape. A natural sounding boost that brings out the best in your guitar signal.

EQDELUXE Signal Flow Diagram



Appendix A: Physical Specification

Measurement	Unboxed	Boxed
Weight	653g (23oz)	740g (26oz)
Length	123mm (4.8")	135mm (5.3")
Width	86mm (3.4")	108mm (4.3")
Height	58mm (2.3")	90mm (3.5")

Appendix B: Performance Specification

Measurement	Value
Input impedance	1MΩ
Output impedance	1.5kΩ
Current draw	65mA
Power supply requirements	9VDC 2.1mm centre negative connector

Appendix C: Connector Pin Out

Instrument and Amplifier 1/4" TS Sockets:

Pin	Description
Tip	Signal
Sleeve	Ground

Appendix D: Environmental Information

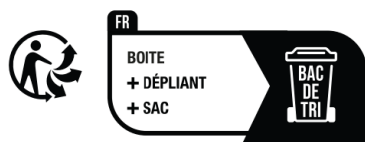
Disposal of the Packing Material



The packing materials for this product are recyclable. Do not dispose of these materials with your normal household waste. Please refer to the table below for recycling information. Contact your local authority for further guidance on recycle in your region.

Item	Material	Recycling code
Box	Cardboard. Can be recycled with label attached.	22 PAP
Box Label	Paper. Does not need to be removed from box to recycle.	21 PAP
Bag	Lowdensity Polyethylene	4 LDPE
Safety Leaflet	Paper	21 PAP
Getting Started Guide	Paper	21 PAP

European Recycling Information



Scatola	Volantino	Borsa
PAP20	PAP22	LDPE4
Raccolta Carta	Raccolta Carta	Raccolta Plastica

Controlla le linee guida locali per la raccolta

CARTÃO	PAPEL	PLÁSTICO
Esvaziar Espalmar	Separar	Esvaziar



Disposal of your Old Device



The crossed out wheeled bin symbol indicates this product is classified as Waste Electrical and Electronic Equipment (WEEE) in the European Union and should not be discarded with household waste. Other territories may vary. Contact your local authority or Origin Effects for more information.

Appendix E: Directives & Regulations



This product complies with Electromagnetic Compatibility (EMC) directive 2014/30/EU.



Origin Effects Ltd has conformed where applicable to European Union's Directive 2011/65/EU on Restrictions of Hazardous Substances (RoHS) as well as the following sections of California law which refer to RoHS, namely sections 25214.10, 25214.10.2, and 58012, Health and Safety Code; Section 42475.2, Public Resources Code.



This equipment has been tested and found to comply with the limits for a Class B device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Appendix F: Warranty

At Origin Effects we want you to have a long and happy relationship with your pedal, so we offer a comprehensive 2-year warranty from the date of purchase. You can extend this warranty to 4 years by registering your product at <https://origineffects.com/register/> Please note the warranty is not transferable and only valid for the original owner.

Returns or servicing should be arranged through the store you purchased the product from. Proof of original ownership may be required in the form of a purchase receipt.

For full warranty details visit www.origineffects.com/warranty