

# JEFF



 ACUSTICA

OS-2X

EQV

# 1 INTRODUCTION

## 1.1 JET

Thank you for choosing Jet! The new Acqua plugin bundle focused on Dynamic EQ.

Jet is the ultimate, all-new, 2-band dynamic Equalizer plugin suite from Acustica Audio consisting of two FREE players, JET and JET MIX, both available in VST, VST3, AU and AAX format.

This is one of the most versatile and indispensable tools for audio engineers who need to solve problems with just a few clicks, and without compromises, truly deserving a place among Acustica's flagship products due to its sound and design quality. This suite of dynamic eqs is inspired by some very special gear that includes one of the best, renowned, and versatile Bus Compressors made in the UK, recently reintroduced to the market in a brand new form that has already been a great success due to its powerful, yet musical sound character. Unlike the dynamic Eqs previously released by Acustica, this new suite incorporates algorithmic technology for the dynamic part and allows the loading of different types of equalisers derived from our most popular Acqua Eqs.

To get the most out of your new plugin suite, please read this user manual carefully.

## 1.2 FEATURES

- Powerful 'Glue' Compressor.
- 'Hybrid' plugin with 50% analogue emulation, 50% digital emulation.
- 3 modes of operation - Classic Stereo (LR), Mid or Side.
- Internal and External SC.
- Static EQ available
- Possibility of expanding new sampled or algorithmic eq models for DYNAMIC EQ (available in the Additional Volumes).
- Top quality product suite with a great, distinctive and Impeccable sound.

# 2 OVERVIEW

Whilst mixing sometimes 'Static' EQ may not be enough. The problem is that sometimes we don't want or need to cut a frequency throughout the entire track, we just need to cut it when it exceeds a certain threshold. The main idea behind Compressors (Dynamic processor) is the dynamic manipulation of the overall level of the audio material.

Equalizers change the spectral character of the audio signal, statically. Multiband processors can do both. They can be used like a filter that isn't limited to being set to a specific gain level, but it is able to change its gain settings dynamically using a control signal. In the audio market, there are several, often complex, tools that can perform this function but are potentially destructive if not used correctly.

This is why we decided to create a powerful and complete, uncompromising yet easy-to-use, 2-band dynamic equaliser for mixing, sound-design. Dynamic EQ represents a new generation of tools providing a marriage between dynamic processing and eq.

Jet is Acustica's new Dynamic equaliser, unlike our previous dynamic eqs it uses algorithmic technology for the dynamic part and allows the loading of different types of equalizers derived from our most popular Acqua Eqs.

Jet consists of:

1- Jet:

A FREE player/plugin designed primarily for bus purposes.



2- Jet Mix:

A FREE player/plugin designed primarily for mix purposes.



Jet and Jet Mix include three different eq models for the DYNAMIC EQ section by default.

- 1 sampled EQ, with a set of selected LF and HF band frequencies derived from our renowned EMINENCE Acqua plugin.

Frequencies:

- LF: 20Hz; 40Hz; 80Hz; 160Hz
- HF: 7kHz; 10kHz; 15kHz; 20kHz

- 2 algorithmic EQs with a set of selected LF and HF band frequencies called 'DIGITAL SHELF' and 'DIGITAL SHELF HQ 2X'.

Frequencies:

- LF: 20 Hz; 28 Hz; 40 Hz; 60 Hz; 80 Hz; 120 Hz; 170 Hz; 240 Hz; 350 Hz; 490 Hz; 700Hz
- HF: 700Hz; 960Hz; 1.32kHz; 1800; 2.5kHz; 3.5kHz; 4.75kHz; 6.5kHz; 9kHz; 12.5kHz; 17kHz

Emulation name	Category	LF Frequencies (Hz)	HF Frequencies (Hz)	Q
000 - OFF	-	Bypass	Bypass	-
001 - EMINENCE (by default)	SAMPLED	20;40;80;160	7000;10000;15000;20000	-
001 - DIGITAL SHELF (by default)	ALGO	80;100;130;160;200;250;320; 400;500;630;800	400;500;640;800;1000;1250; 1600;2000;2500;3200;4000	-
002 - DIGITAL SHELF HQ 2X (by default)	ALGO	80;100;130;160;200;250;320; 400;500;630;800	400;500;640;800;1000;1250; 1600;2000;2500;3200;4000	-

IMPORTANT - Additional packs will be available on our website.

Acustica, as with other products, will release Additional Volumes so that you can enhance and expand the setup of your eqs in the Jet plugin suite.

Thanks to the eqs included in the additional volumes, each dynamically processed band of the dynamic eq will have its own filter type so you can choose from a considerable number of sampled or algorithmic emulations.

To stay constantly updated we recommend you to keep an eye on the following product page: <https://www.acustica-audio.com/store/t/acqua/tools/jet>

The signal flow of Jet is:

Input ➤ Static Eq ➤ Dynamic Eq ➤ Output

Both static and Dynamic EQ can operate in LR, Mid or Side mode.

### 3 OPERATION

A Dynamic Equaliser is a more 'intelligent' form of the 'traditional' Equaliser, which modifies the gain of an Equalisation band in direct proportion to the signal level once a set threshold is breached. It modifies the contrast between the forward material (above the threshold) and the background material (below the threshold), focusing on specific frequencies - a particularly resonant low note or a strong snare drum fundamental for example - and gives you the ability to control or enhance them as required.

Below we will immerse ourselves into the explanation of the Jet plugins controls.



JET controls sections



JET MIX controls sections

### 3.1 JET - CONTROLS

To make the operation of the suite more understandable, we will go into the explanation of the Jet (Bus) version controls, the more complete of the two Players by dividing them into sections.

*1-DYNAMIC:* Used to set the parameters of the dynamic eq, it includes:

- **Attack:** Sets the compressor's attack time, ranging from 0.1 mS (fast) to 40 mS (slow).
- **Release:** Sets the compressor's release time, ranging from 0.5 S (fast) to 1.2 S (slow); plus, two even slower times were added, called A1 and A2.
- **Sensitivity:** This determines the amount of the eq effect that is applied to the signal. Ranging from 0% to 100%.
- **Threshold:** This sets the signal level where the dynamic eq starts working. Ranging from -48 to 0 dB. When the audio breaches the threshold, boosts and cuts are applied, thus compressing or expanding the dynamic range of the frequencies concerned.

*2-SIDECHAIN:* Used to modify the control signal, it includes:

- **ON button (Ext SC):** To select if the control signal is taken from channels 1-2 or 3-4.

NOTE:

Sidechaining is a process that allows you to feed a plug-in such as a compressor or a gate with an external audio signal which will then trigger a key element of the process.

Activating the external sidechain button each compressor may be use on an external signal, instead of the main input, to control the amount of dynamic equalization or audio compression.

1) Internal Sidechain key signal is the same as the source signal and normally is processing with a filter (channels n.1 & 2)

2) External Sidechain the key signal is a signal coming from a different channel or bus and the plug-in should be set to receive and process this key signal with the plug-in's input 3 and 4. (channels n.3 & 4).

- **External sidechain knob:** Changes the gain of the control signal by +/- 24 Db.

NOTE: For an immediate understanding, the signal flow of the INTERNAL and EXTERNAL sidechain\* is shown below.

- **ON:** Enable the gain control described below.
- **Internal sidechain knob:** Change the gain of the control signal by +/- 24.
- **Stereo link:** Makes the control signal mono (100%).

*3-STATIC EQ:* Used to modify the gain of the eq at the begin of the chain.

- **ON:** Enables the static eq.
- **Gain LF:** Controls the gain of the Low Frequency band ranging approx. -13/+13 dB.
- **GAIN HF:** Controls the gain of the Low Frequency band ranging approx. -13/+13 dB.

**4-DYN EQ:** Used to modify the gain (compression/expansion) of the dynamic eq and the frequency of both the static and dynamic eq.

- **Frequency LF:** Sets the frequency of the LF filter band. The frequency range depends on the emulation model selected.

- **Frequency HF:** Sets the frequency of the HF filter band. The frequency range depends on the emulation model selected.

- **Gain LF:** This is a LF Gain knob which allows you to easily adjust the Gain for the LF band, setting the desired level to define the maximum amount of gain variation applied. It allows you to choose between compression or expansion. This control is therefore completely dependent on the Threshold parameter.

- **Gain HF:** This is a HF Gain knob which allows you to easily adjust the Gain for the HF band, setting the desired level to define the maximum amount of gain variation applied. It allows you to choose between compression or expansion. This control is therefore completely dependent on the Threshold parameter.

- **Eq menu:** Eq menu: Selects the eq model. The number of emulations in this menu changes depending on the additional volumes installed. By default, Jet (Tool) contains only two emulations, a sampled eq (EMINENCE) and two algorithmic eq ('DIGITAL SHELF' and 'DIGITAL SHELF HQ 2X').

NOTE:

- The number of LF and HF bands of each emulation varies from model to model. Each model has its own intrinsic peculiarities such as a proportional or non-proportional Q, this depends on the nature of the emulation itself.

- Loading the 'HQ 2X' emulations you can change the oversampling rate to improve the audio quality increasing by 2X the sampling frequency of the emulation and minimize aliasing artefacts. These emulations are much heavier than 'standard' versions (more CPU usage) but have a better phase response.

- **Oversampling:** Selects the dyn eq oversampling factor.

- **Delta:** Listen to the difference between the signal processed by the static Eq and the processed signal by the Dyn Eq.

**5-MODE:** Used to select which channel is affected by the eq both static and dynamic (LR/MID/SIDE).

**6-LISTENING:** Allows you to listen to a specific channel/part of the signal flow.

- **Delta:** Listen to the difference between original signal and processed signal.

- **Mid:** Listen to only the centre of the soundstage (Mid component).

- **Side:** Listen to only the edges of the soundstage (Side component).

- **Run:** Default listening.

- **Sc:** Sidechain listening.

- **Byp:** General Bypass of the plugin.

- **Eq:** Dyn Eq listening.

### *7-METERING & ADDITIONAL CONTROL:*

To adjust and measure Input-output level and gain reduction.

- **Input-Output meters:** They measure the input and output levels of the plugin.
- **Gain Reduction meters:** They measure (L-R) the reduction level applied by the compressor. The meter indicates '0' in the absence of any input signal or any gain reduction. If the signal exceeds the compression threshold or limit level, the amount of gain reduction is shown.
- **Input gain:** Controls the input level of the plugin (range: -24/+24 dB).
- **Output gain:** Controls the output level of the plugin (range: -24/+24 dB).
- **Eq Oversampling (OS 2X):** Modifies the oversampling rate to improve the audio quality increasing the sampling frequency of the Algorithmic EQs included in the Dyn eq and the Static EQs. (NOTE: this control only affects algorithmic Eqs).
- **Size:** Adjust the whole plugin-GUI size.  
Choose between 3 magnifications (1x - 1.5x - 2x) from the top left SIZE drop-down menu. Once the desired size has been selected, the plugin must be removed and re-load in order to apply the new size. This action affects the currently selected plugin. New instances of the same plugin will open with this size.

### *WORKFLOW*

Below we'll take a look, step by step, at the basic Jet workflow:

- 1) Select an eq band from the HF and LF section.
- 2) Press eq in the listening section and adjust the COMP/EXP and frequency controls to achieve the desired result.
- 3) Press RUN to listen to the Dyn Eq in action, adjust the threshold and sensitivity to increase the Eq action.
- 4) Enable the static eq to balance the Dyn Eq effect by adjusting the gain.

## **4 HOW TO DOWNLOAD, INSTALL, AND AUTHORIZE YOUR PRODUCTS**

Acustica Audio products can be downloaded, installed, and authorized using the Aquarius Desktop application.

The Aquarius Desktop application is a free standalone application that will manage every step in an automatic way without user intervention.

Download Aquarius Desktop Application  
[www.acustica-audio.com/pages/aquarius](http://www.acustica-audio.com/pages/aquarius)

### **4.1 How to download a product in Aquarius Desktop Application**

To download a product using the Aquarius Desktop application go to the purchase page and select the product and format (VST2, VST3, AAX, AU) to install.

In case you can't find your product on the purchase page use the search page.

### **4.2 How to install a product in Aquarius Desktop Application**

The installation is done automatically by the Aquarius Desktop application after the download. As the Aquarius Desktop application creates a temporary file of the downloaded products, known as the stage area, at the moment you want to reinstall a product it will not be necessary to download it again.

### **4.3 How to authorize a product in Aquarius Desktop Application**

The authorization is done automatically by the Aquarius Desktop application after the product installation. You can manage your authorizations using the Aquarius Web Service.

Click [HERE](#) or a complete installation user guide.

## 5 SYSTEM REQUIREMENTS

Modern computers are powerful enough to run many plugins at once. However, our technology requires more resources than algorithm-based software, so we recommend optimizing your system to work with high CPU loads and low audio latency. Before starting the installation process, please confirm that your system meets the minimum system requirements to run the plugins please consult the following link:  
<https://app.box.com/v/AASYSTEMREQUIREMENTS>

## 6 CUSTOMER CARE

### 6.1 Contact point

To contact Acustica Audio, always use the single point of contact, which is this help-desk portal: <https://acusticaudio.freshdesk.com/>  
We do not provide official assistance via social networks, public forums, or email accounts. For troubleshooting and issue reporting, check the available solutions in the knowledge base.

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## 7 APPENDIX – EXTRA & ADDITIONAL VOLUMES

### Jet Volume A

Jet – Volume A is an additional Volume for Jet.

#### IMPORTANT:

It is mandatory that JET be installed on your computer for the additional volumes to be used. Make sure you have installed and authorised the FREE Jet player through the Aquarius Desktop application.

### What you get

Jet Volume A includes 24 emulations of different algorithmic and sampled equalizers that can be loaded into the DYN EQ section.

-To facilitate understanding of the emulated hardware, where possible, we use product names used by an Acqua plug-in to aid in the identification of the original sampled unit.

Emulation name	Category	LF Frequencies (Hz)	HF Frequencies (Hz)	Q
A01 – NAVY SHELF (Low & High)	SAMPLED	33;56;100;180;330	3300;4700;6800;10000;15000	-
A02 – NAVY LO MID	SAMPLED	33;56;100;180;330	390;560;820;1200;1800;2700; 3900;5600;8200	-
A03 – NAVY HI MID	SAMPLED	270;390;560;820;1200;1800; 2700;3900;5600;8200	3300;4700;6800;10000;15000	-
A04 – AMETHYST SHELF (Low & High)	SAMPLED	30;60;100;150;250;300	2000;4000;7000;10000 15000;21000	-
A05 – AMETHYST MID	SAMPLED	100;150;200;300;500;1k	500;800;1500;2500;3500; 4500	-
A06 – AMETHYST LOW MID	SAMPLED	30;60;100;150;250;300	2000;4000;7000;10000; 15000;21000	-
A07 – AMETHYST HI MID	SAMPLED	500;800;1500;2500;3500; 4500	2000;4000;7000;10000; 15000;21000	-
A08 – HONEY SHELF	SAMPLED	45;85;150;260;470	1100;1800;3200;5600;9800	-
A09 – HONEY MID	SAMPLED	270;460;800;1400;2400	530;900;1600;2800;4800	-
A10 – HONEY LO MID	SAMPLED	45;85;150;260;470	270;460;800;1400;2400	-
A11 – HONEY HI MID	SAMPLED	530;900;1600;2800;4800	1100;1800;3200;5600;9800	-
A12 – CORAL SHELF (Low & High)	SAMPLED	74;84;98;116;131;166;230;361	1600;1800;2100;2500;3400; 4800;7100;18000	-
A01 – ANALOG PEAK	ALGO	20;28;40;60;80;120;170;240; 350;490;700	700;960;1325;1800;2500;3500;47 50;6500;9000;12500;17000	Prop Q
A02 – ANALOG PEAK HQ 2X	ALGO	20;28;40;60;80;120;170;240;3 50;490;700	700;960;1325;1800;2500;3500; 4750;6500;9000;12500;17000	Prop Q
A03 – ANALOG SHELF (Low & High)	ALGO	20;25;30;40;50;65;80;100; 125;160;200	400;500;640;800;1000;1250;1600; 2000;2500;3200;4000	-

<b>Emulation name</b>	<b>Category</b>	<b>LF Frequencies (Hz)</b>	<b>HF Frequencies (Hz)</b>	<b>Q</b>
A04 – ANALOG SHELF HQ 2X	ALGO	20;25;30;40;50;65;80;100;125;160;200	400;500;640;800;1000;1250;1600;2000;2500;3200;4000	-
A05 – OPTIMUM PEAK ASYM	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A06 – OPTIMUM PEAK ASYM HQ 2X	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A07 – ANALOG PEAK ASYM	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A08 – ANALOG PEAK ASYM HQ 2X	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A09 – ANALOG PEAK FLAT TOP	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A10 – ANALOG PEAK FLAT TOP HQ 2X	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A11 – ANALOG PEAK FLAT LARGE TOP	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q
A12 – ANALOG PEAK FLAT LARGE TOP HQ 2X	ALGO	20;28;40;60;80;120;170;240;350;490;700	700;960;1325;1800;2500;3500;4750;6500;9000;12500;17000	Prop Q

## Jet Volume B

Jet – Volume B is an additional Volume for Jet.

### IMPORTANT:

It is mandatory that JET be installed on your computer for the additional volumes to be used. Make sure you have installed and authorised the FREE Jet player through the Aquarius Desktop application.

## What you get

Jet Volume B includes 1 emulation (under the name 'Motor EQ') from an ultra rare, all-analogue, passive, seven-band fixed EQ considered today as the 'Holy Grail' of classic EQs, that can be loaded into the DYN EQ section to enrich your range of possibilities.

It includes:

1 Sampled EQ

Back to the past

In addition to creating the hits of the likes of Stevie Wonder, Marvin Gaye, Diana Ross, the Jackson 5 and many others, the Motown record label created the true Soul and R'n'B sound. The beating heart of the equipment was undoubtedly the equaliser that was sampled and included in this Jet Volume B, built in the 1960s by Motown engineers and considered today as the 'holy grail' of classic equalisers;

We are talking about a custom passive 7-band graphic equaliser with frequencies fixed at 50Hz, 130Hz, 320Hz, 800Hz, 2kHz, 5kHz and 12.5kHz, capable of delivering full tones and a huge, punchy and warm sound that made this EQ a classic.

In Jet Volume B you can appreciate this meticulously sampled emulation to enrich the Dyn EQ section.

Emulation name	Category	LF Frequencies (Hz)	HF Frequencies (Hz)	Q
B01 – MOTOREQ	SAMPLED	50; 130; 320; 800; 2000; 5000; 12500	50; 130; 320; 800; 2000; 5000; 12500	Prop Q

## Jet Volume C

Jet – Volume C is an additional Volume for Jet.

### IMPORTANT:

It is mandatory that JET be installed on your computer for the additional volumes to be used. Make sure you have installed and authorised the FREE Jet player through the Aquarius Desktop application.

## What you get

Jet Volume C features 4 different EQ models derived from some of our most popular plugin suites, that can be loaded into the DYN EQ section to enrich your range of possibilities.

It includes:

**- Jade (EQ B);** derived from an American unit famous for being able to maintain the integrity of your mix's original sound and at the same time be able to act on the so-called "Air" frequencies, enhancing them considerably. It turns out to be one of the most used machines on the market today, able to guarantee absolute transparency and top end presence.

Available frequencies:

LF: 33,56,95,160,270,460 Hz

LMF: 40,70,100,150,200,400,550,700,1k,1k4 Hz

HMF: 500,1k,1k4,2k,4k6,5k6,6k8,8k3,17k,18k Hz

HF: 3k3,4k7,6k8,10k,15k,18k Hz

**- Brown (EQ 312);** a rare 3-band inductor-based EQ, an all discrete op-amp design, manufactured in the mid 1970s in the USA.

Available frequencies:

LF: 50,140,250,400 Hz

LMF: 400,700,1.5k,3k Hz

HMF: 400,700,1.5k,3k Hz

HF: 3k,5k,7.5k,10k Hz

**- Snow EQ;** offering astonishing transparency, and embodies half a century of experience in designing the most professional audio equipment by one of the best electronic engineers in Pro Audio history.

Available frequencies:

LF: 30,60,100,220 Hz

LMF: 80,100,200,400,700,1k6 Hz

HMF: 600,1k,2k,4k,7k,16k Hz

HF: 4k7, 6k8, 12k,25k Hz

**- Blond (EQ A);** an extremely transparent 4-band EQ, that faithfully recreates the '70s console experience by one of the greatest Italian designers ever.

Available frequencies:

LF: 40,78 Hz

LMF: 180, 350, 680 Hz

HMF: 1k4,2k6,5k5

HF: 14k, 20k Hz

In Jet Volume C you can appreciate these meticulously sampled emulations to enrich the Dyn EQ section.

<b>Emulation name</b>	<b>Category</b>	<b>LF Frequencies (Hz)</b>	<b>HF Frequencies (Hz)</b>	<b>Q</b>
C01 - BLOND SHELF	SAMPLED	40; 78	20000; 14000	-
C02 - BLOND LO MID	SAMPLED	40; 78	180; 680	-
C03 - BLOND HI MID	SAMPLED	1k4; 2K6; 5k5	14k; 20k	-
C04 - BLOND MID	SAMPLED	180; 350; 680	1k4; 2k6; 5k5	-
C05 - BROWN SHELF	SAMPLED	50; 140; 250; 400	3k; 5k; 7k5; 10k	-
C06 - BROWN LO MID	SAMPLED	50; 140; 250; 400	3k; 5k; 7k5; 10k	-
C07 - BROWN HI MID	SAMPLED	400; 700; 1k5; 3k	3k; 5k; 7k5; 10k	-
C08 - BROWN MID	SAMPLED	400; 700; 1k5; 3k	3k; 5k; 7k5; 10k	-
C09 - JADE SHELF	SAMPLED	33; 56; 95; 160; 270; 460	3k3; 4k7; 6k8; 10k; 15k; 18k	-
C10 - JADE LO MID	SAMPLED	33; 56; 95; 160; 270; 460	40; 70; 100; 150; 200; 400; 550; 700; 1k; 1k4	-
C11 - JADE HI MID	SAMPLED	500; 1k; 1k4; 2k; 4k6; 5k6; 6k8; 8k3; 17k; 18k	3k3; 4k7; 6k8; 10k; 15k; 18k	-
C12 - JADE MID	SAMPLED	40; 70; 100; 150; 200; 400; 550; 700; 1k; 1k4	500; 1k; 1k4; 2k; 4k6; 5k6; 6k8; 8k3; 17k; 18k	-
C13 - SNOW SHELF	SAMPLED	30; 60; 100; 220	4k7; 6k8; 12k; 25k	-
C14 - SNOW LO MID	SAMPLED	30; 60; 100; 220	80; 100; 200; 400; 700; 1k6	-
C15 - SNOW HI MID	SAMPLED	600; 1k; 2k; 4k; 7k; 16k	4k7; 6k8; 12k; 25k	-
C16 - SNOW MID	SAMPLED	80; 100; 200; 400; 700; 1k6	600; 1k; 2k; 4k; 7k; 16k	-



1-2  
(( RUN ))  
SC BYP EQ  
DYN

INTERNAL  
SIDECHAIN

OUTPUT  
SENSITIVITY  
THRESHOLD

EXTERNAL  
SIDECHAIN  
STEREO LINK  
LR M S

EQ  
STATIC EQ  
ON  
JET

GAIN

COMP GAIN EXP FREQUENCY

GAIN EXP

BYP

COMP

3-4

DYNAMIC

EXP

TR