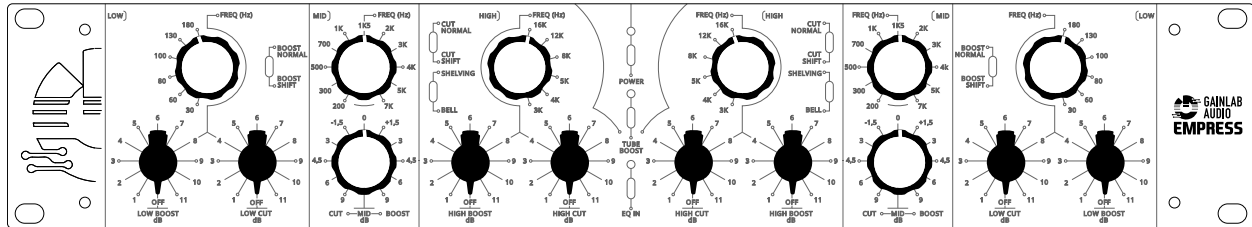




GL-PEQ EMPRESS



OPERATION AND SAFETY PRECAUTIONS



Please note that the GLA-PEQ EMPRESS is intended for professional use. It's not a consumer electronic device. Its installation and use require certain professional sound engineering knowledge and skills. Lack of this knowledge may result in malfunction, damage or personal injury.

- Use only grounded electrical outlet!
- Do not open the device and don't do any modifications on it!
- Do not attempt to repair or replace any of the components unless specifically instructed to do so in this guide.
- Pay attention to not put any solid matter (flammable things, coin, nail etc) or liquid (water, alcohol etc.) inside device.
- Do not twist or break the power cord or place heavy objects on it. Doing so may damage the cable and cause a short circuit. Damaged cables can cause fire and electric shock!
- Protect the device from intensive external shock! (for example: falling down)

Never use the device in following conditions:

- Extreme temperature
- Moisture
- High humidity
- Rain
- Dust
- Heavy vibration

In the following cases, turn off the machine immediately, unplug the power cord, and contact us (www.gainlabaudio.com):

- if the mains plug of the appliance is damaged

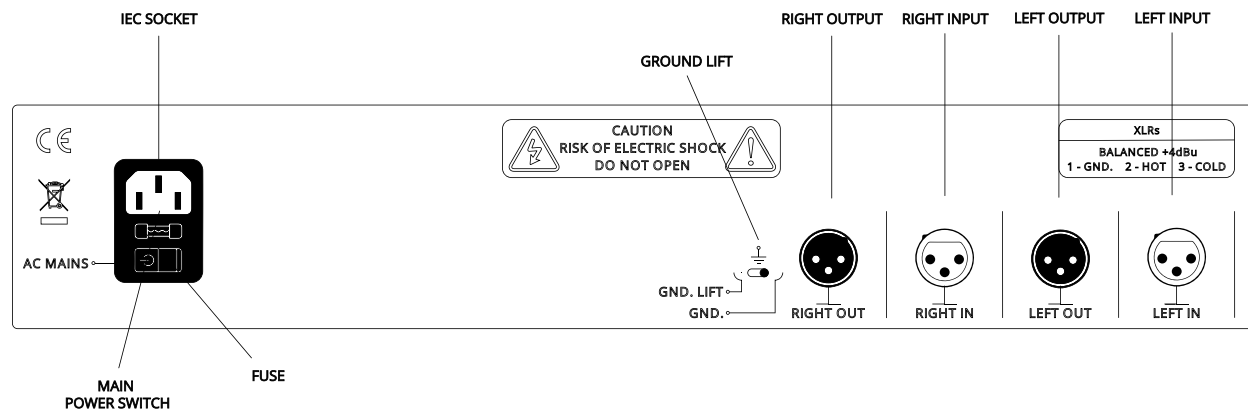
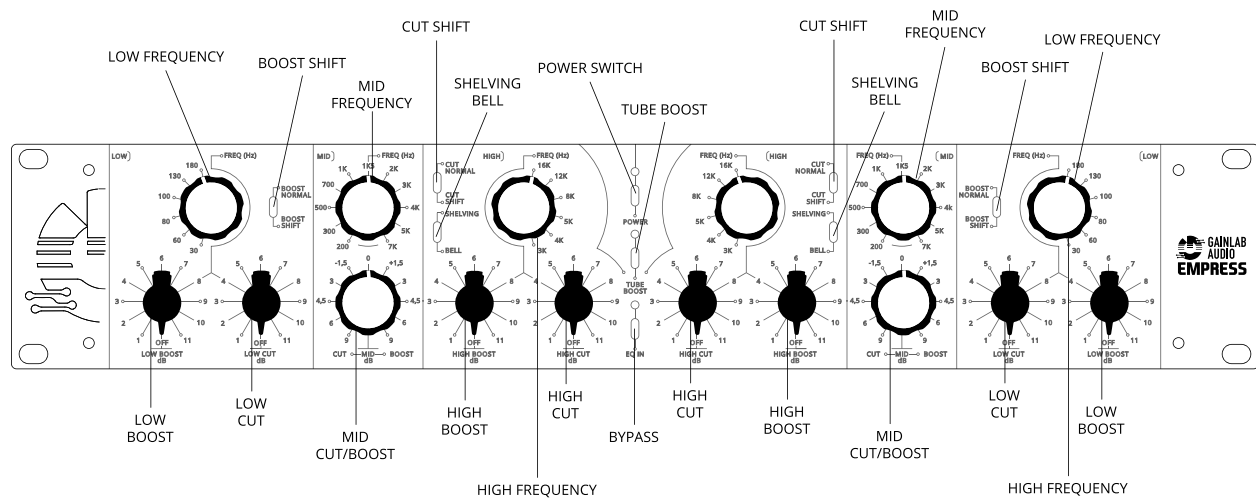
- if you notice smoke or an unusual odor
 - if any object or liquid gets inside the device,
 - if the device has been exposed to rain or other moisture,
 - if the device does not operate normally
-
- Do not connect the appliance to a mains socket to which an electrical appliance controlled by an inverter, switching power supply (eg refrigerator, washing machine, microwave, air conditioner) or a appliance with a motor is connected.
 - Depending on the use of the electrical device, power supply noises may cause a malfunction or audible noise on this unit. If a separate electrical outlet cannot be used, connect a noise filter between this and the other electrical appliance.
 - The appliance heats up during several hours of continuous operation. This is normal and not a cause for concern.
 - Turn off all devices before connecting the device to other devices. This will prevent damage to speakers and other equipment.
 - Use of the unit near amplifiers or other equipment that contains a transformer may cause noise. To resolve this issue, relocate the device or move it away from the interfering device.
 - Noise may be caused by using a wireless communication device near the device, such as a mobile phone. Such noise can occur when making, receiving, and diverting a call. If you experience this problem, move the wireless device away from the device or turn it off.
 - This unit may interfere with radio and television operation, so do not use near such receivers.
 - If the device is transported to a location with a very different temperature and / or humidity, moisture may condense inside. Using the device in this condition may result in damage or malfunction. Therefore, wait a few hours for the moisture to completely evaporate before using the appliance.

CLEANING AND MAINTENANCE

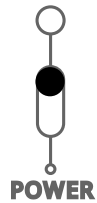


Clean the appliance daily with a soft, dry or slightly damp cloth. Use a soft, abrasion-free cloth to remove stubborn dirt. Then wipe the device with a dry cloth. Never use benzine, thinner, alcohol or other solvents, strong alkaline or acidic cleaners as they may cause discoloration and deformation.

OVERVIEW



POWER SWITCH



The unit is switched on with the switch marked POWER. Set the switch labeled POWER to the up position if you want to turn on the unit. Set the switch labeled POWER to the down position when not in use.

Due to the tube design of the device, it is advisable to leave a “warm-up time” of 15-20 minutes before starting use.

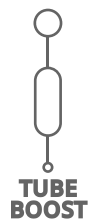
ATTENTION! the switch labeled POWER puts the device in standby mode, does not completely disconnect it from the mains, if you want to disconnect the device completely from the mains, unplug the device from the mains or switch off the main switch at the IEC socket !

EQ IN, BYPASS



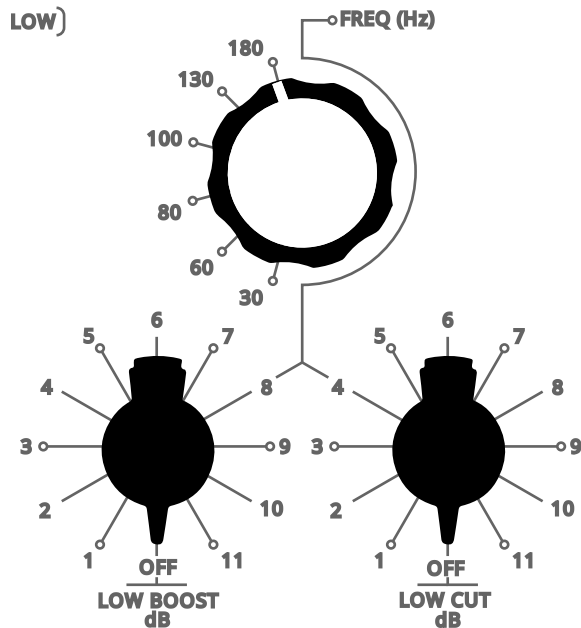
In BYPASS mode, the device galvanically connects its outputs and inputs, so we can always check the sound of the compression compared to the original signal. To select the BYPASS mode, set the switch to the lower position. To select the EQ IN mode, set the switch to the upper position.

TUBE BOOST



By using this function, the gain of the output tube amplifier can be increased, and the device adding more harmonic distortion to the signal. This can makes the resulting sound warmer and more powerful. Set the switch to the up position to activate the function. Set the switch to the down position if you do not want to use the function.

LOW FREQUENCY BAND

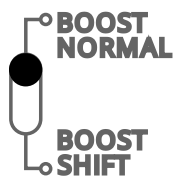


One of the features of the filter networks is that the device is able to cut and boost at the selected frequency at the same time, thus can realizing complex transmission characteristics. To boost, select the desired frequency using the FREQ (Hz) switch. Set the LOW CUT (dB) parameter to OFF (0). Use the LOW BOOST (dB) parameter to adjust the amount of increase.

To cut, select the desired frequency using the FREQ (Hz) switch. Set the LOW BOOST (dB) parameter to OFF (0). Use the LOW CUT (dB) parameter to set the cut rate. For complex transmission curve. select the desired

frequency using the FREQ (Hz) switch. Use the LOW BOOST (dB) parameter to set the amount of increase. Use the LOW CUT (dB) parameter to set the cut rate.

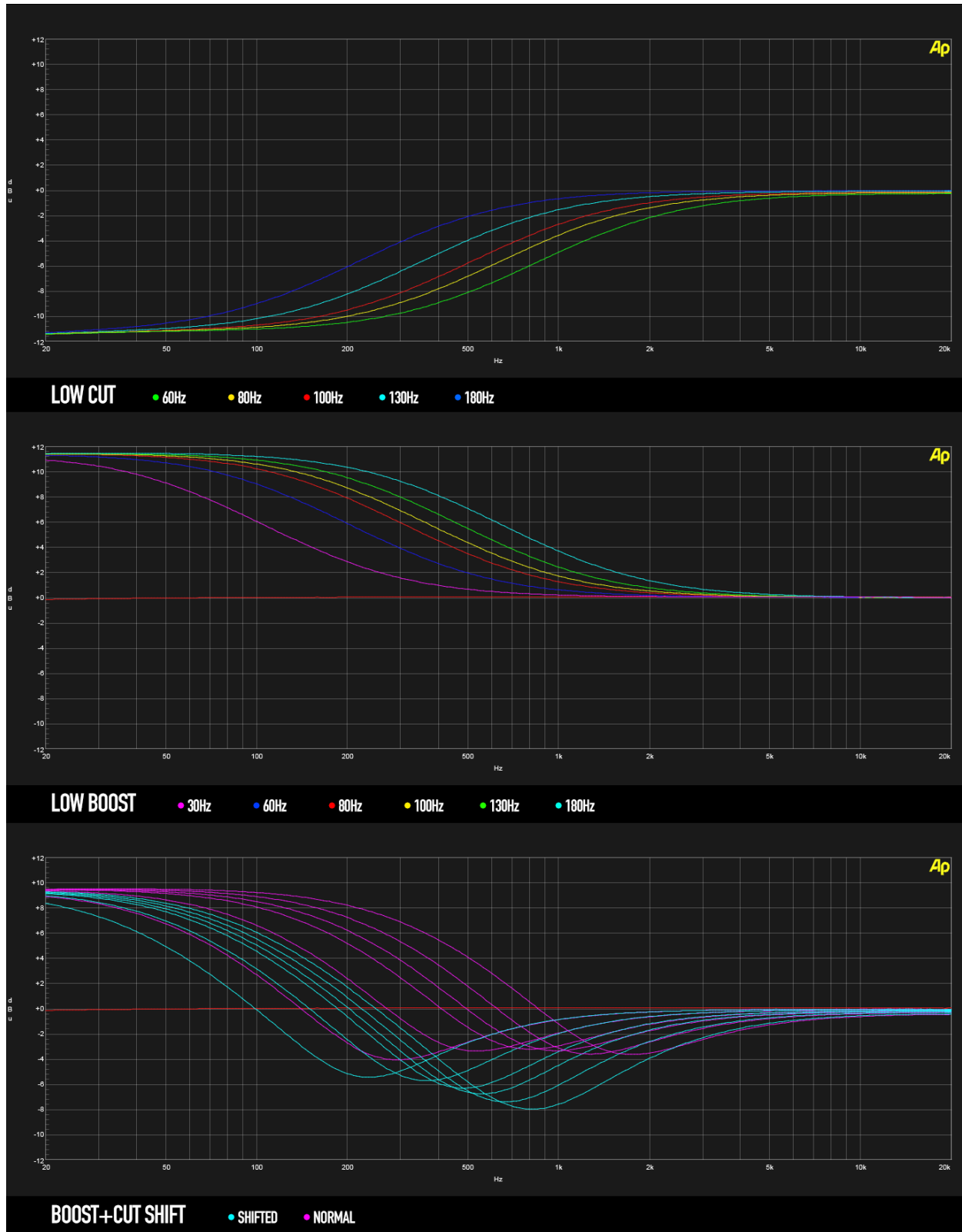
BOOST SHIFT



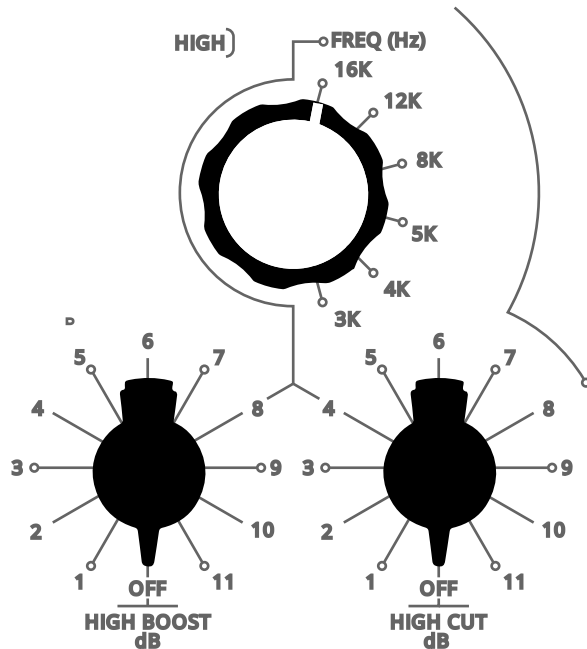
In connection with simultaneous cutting and bosting, the BOOST SHIFT function has been added to the device, which is able to shift the boosted frequency proportionally to the cutting frequency during operation, enriching the process of creating a complex transmission curve with additional possibilities. To turn on the function, set the switch to the down position. To deactivate the

function, set the switch to the upper position. **Attention! The degree of frequency shift depends on the selected frequency!**

TRANSFER CHARACTERISTICS LOW BAND



HIGH FREQUENCY BAND



One of the features of the filter networks, the device is able to cut and boost at the selected frequency at the same time, thus realizing complex transmission characteristics. To boost, select the desired frequency using the FREQ (Hz) switch. Set the HIGH CUT (dB) parameter to OFF (0). Use the HIGH BOOST (dB) parameter to adjust the amount of increase.

To cut, select the desired frequency using the FREQ (Hz) switch. Set the HIGH BOOST (dB) parameter to OFF (0). Use the HIGH CUT (dB) parameter to set the cut rate. For complex transmission curve. select the desired

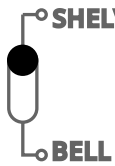
frequency using the FREQ (Hz) switch. Use the HIGH BOOST (dB) parameter to adjust the amount of increase. Use the HIGH CUT (dB) parameter to set the cut rate.

CUT SHIFT



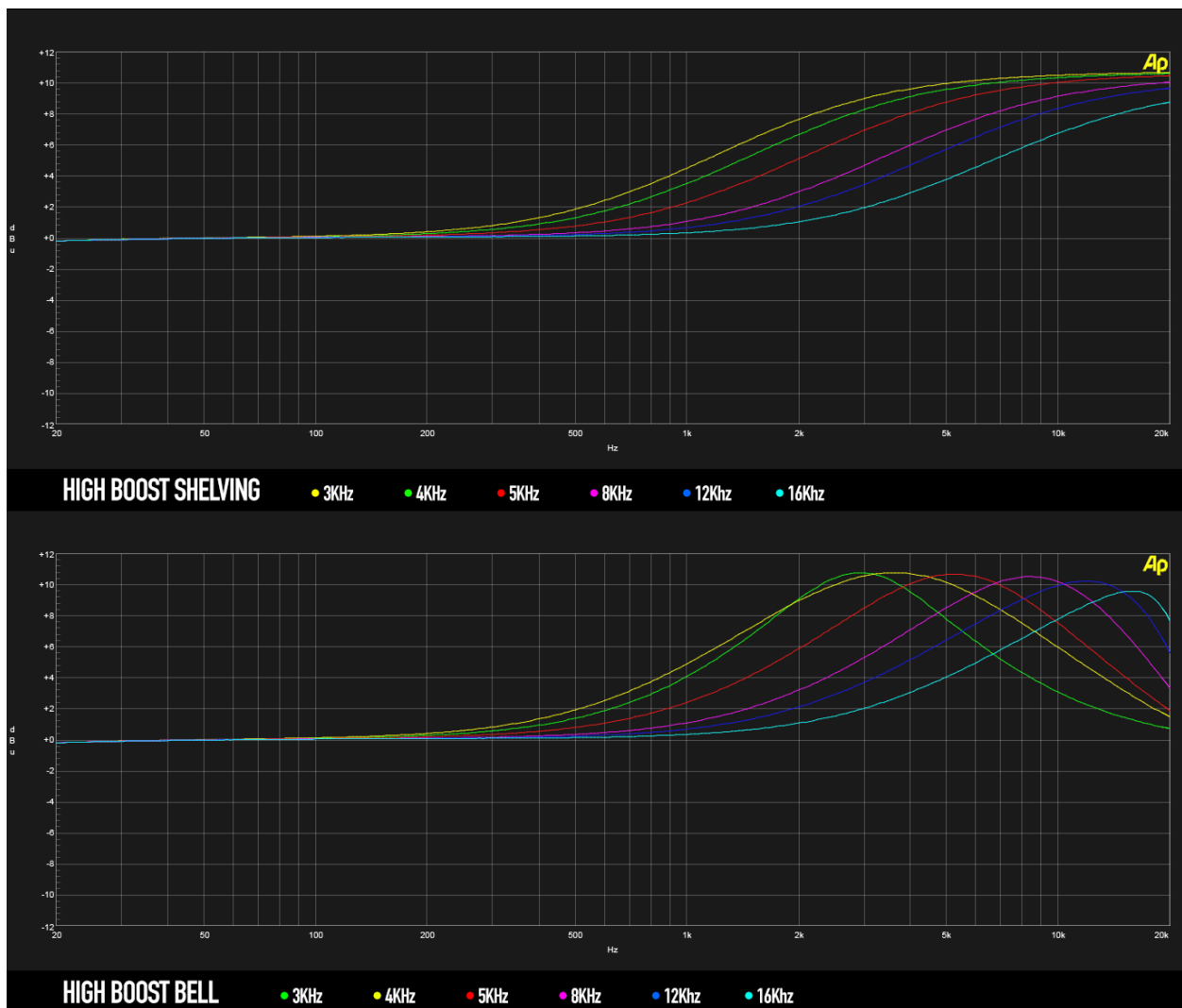
In connection with simultaneous cutting and boosting, the CUT SHIFT function has been added to the device, which is able to shift the cutting frequency in proportion to the boosting frequency during operation, enriching the process of creating a complex transmission curve with additional possibilities. To turn on the function, set the switch to the down position. To deactivate the function, set the switch to the upper position. **Attention! The degree of frequency shift depends on the selected frequency!**

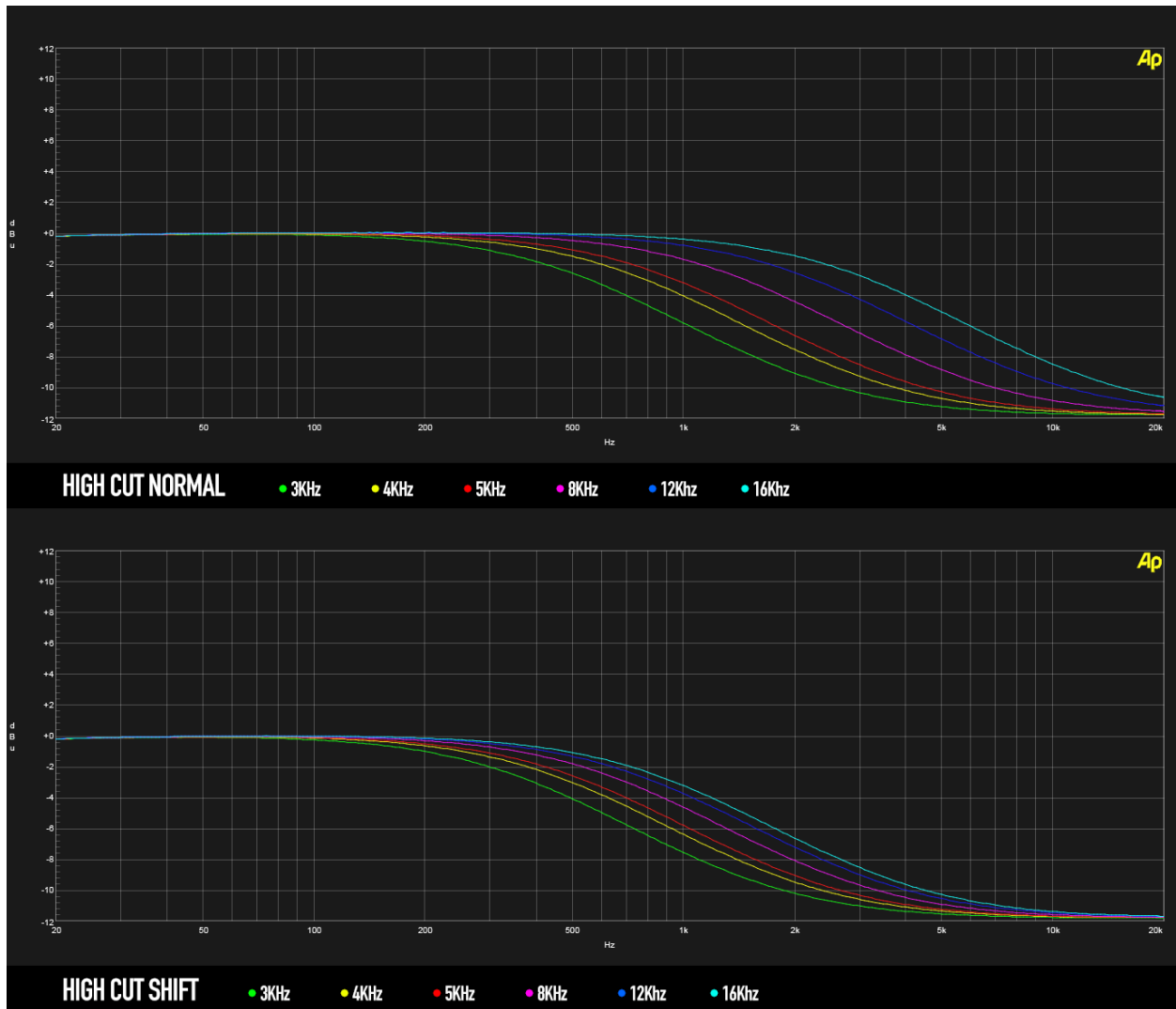
HIGH SHELIVING/BELL



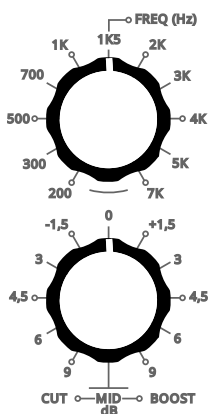
The high frequency band is capable of bell and shelving characteristics. To select the shelving mode, set the switch to the upper SHELVING position. To select the bell mode, turn the switch to the lower BELL position.

TRANSFER CHARACTERISTICS HIGH BAND





MID FREQUENCY BAND

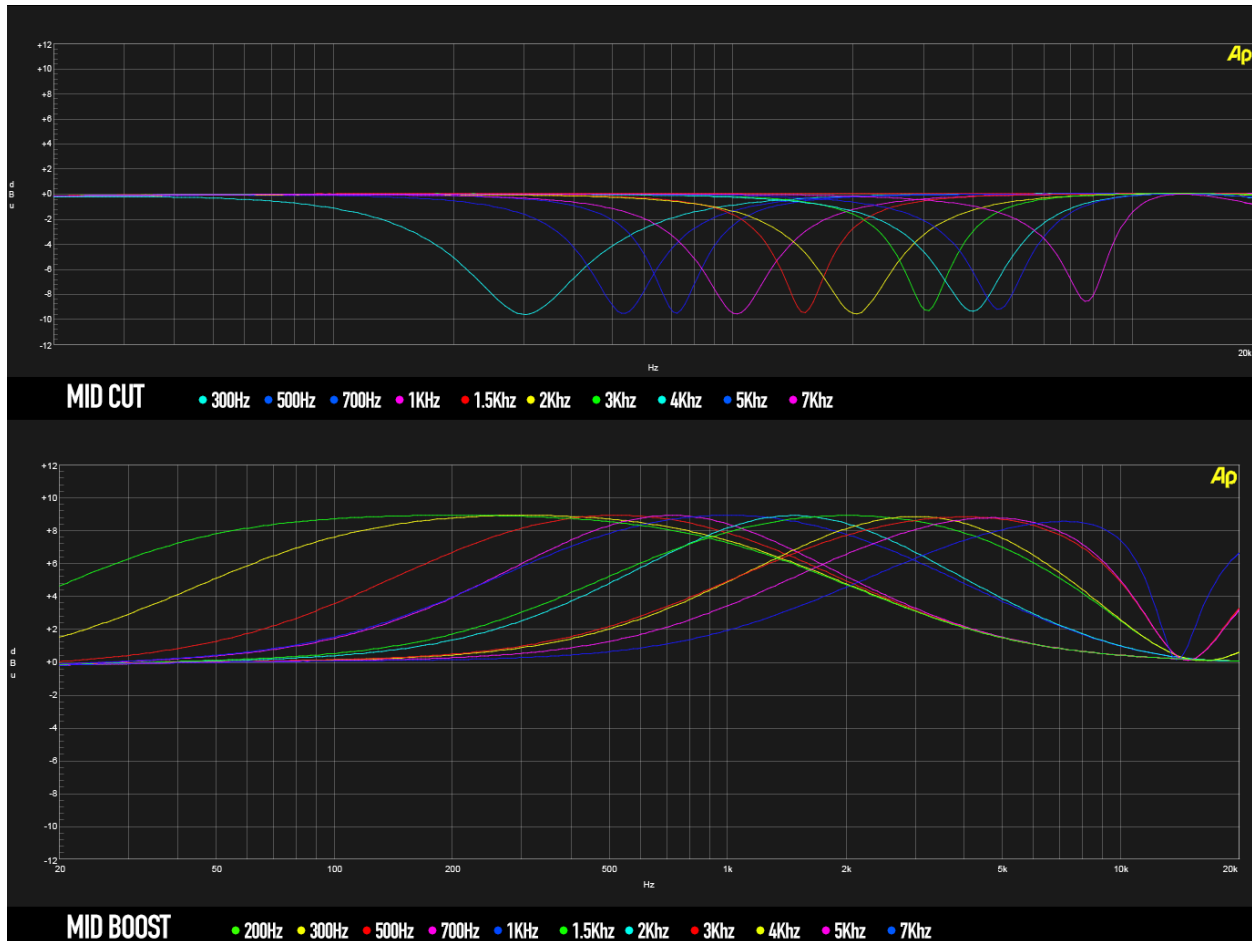


In addition to the high and low range control option, a medium frequency band has been added. With this filter system, there is no possibility of simultaneous cutting and lifting, we are able to either cut or raise at the selected frequency on the operating surface.

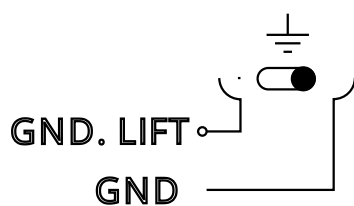
Use the FREQ (Hz) rotary switch to select the desired frequency where you want to intervene. To boost, turn the rotary switch of the MID parameter in the direction marked BOOST until the

desired lift value is reached. To cut, turn the rotary switch of the MID parameter in the direction marked CUT until the desired cut value is reached.

TRANSFER CHARACTERISTICS MID BAND



GROUND LIFT



The switch on the back of the device allows the outgoing audio connection to be disconnected from ground, thus eliminating ground loop phenomena. To disconnect the ground set the GROUND LIFT switch on the rear panel to the right position.

TECHNICAL SPECIFICATIONS



Inputs: 2x Balanced XLR
Outputs: 2x Balanced XLR

Maximum input level: +23dBu
Input impedance: >10Kohm

Maximum output level: +23dBu
Output impedance: <65ohm

THD+N (0dBu, 1Khz): <0.08%
THD+N (+20dBu, 1Khz): <0.8%

Frequency response: 20Hz-20Khz +/- 0.2dBu
Noise floor: <-60dBu, SNR: 88dB

Dimensions: 483mmx280mmx89mm
Weight: 5.4 Kg

Mains voltage: 230V AC (EU version)
 110V AC (US version)

EMPRESS RECALL SHEET:

