



LaFaro DELUXE

Double Bass amplifier

IMPORTANT SAFETY INSTRUCTIONS



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT ENCLOSURE THAT MAY BE OF A SUFFICIENT MAGNITUDE TO CONSI-

DERE THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN

WARNING

TO REDUCE THE RISK OF FIRE OR
ELECTRICAL SHOCK DO NOT EXPOSE THE

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.



INTRODUCTION

Double bass amplification gave the start to the Schertler company in the year 1986, coming out with the first non-piezo bass-pickup. Over the years, many products has been added to the line, received by the double bassist community as helpers, that changed the playing of this difficult to amplify instrument.

Just consequently, Schertler launches their double bass amp LaFaro, dedicated to one of the best sounding bassist in the Jazz history.

Years of research, long experience in building acoustic amplifiers and the decision to create the best amp that would be technically possible gave rise to this compromise-less completion of the double bass line.

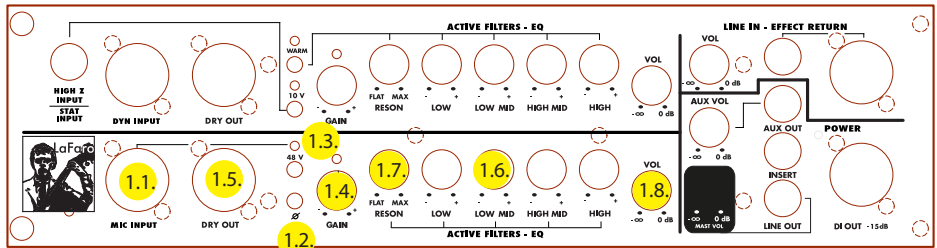
Any source from pickups to mikes can be connected to the 2-channel Class-A preamp. 3 DI outputs, one for each channel and one in the master-section, an effect loop and many more features in high end studio quality, guarantee for a never seen professional versatility and quality, on stage as well as in a recording situations.

A traditional, transformer driven 280 Watts power amp moves a 8" woofer, specially created for this amp with record-breaking long linear extension to furnish strong, clear low frequencies and natural sounding mits. A tweeter, powered with 80 Watts, takes care to smooth and uncompressed harmonics, what is so important for any stringed instrument, such as double bass.

The LaFaro also sounds great played with electric bass in rehearsals or recordings and obviously it is a fine amp for Cello, when a strong amplification with fundament is needed. Useless to mention the harmonic marriage with an acoustic bass guitar or with a similar instrument.

This new amp is neither a light weight nor a cheap purchase. We simply believe, that the LaFaro amp offers the most natural and musical amplification of the double bass, particularly with our Schertler bass pickups STAT-B or DYN-B, and therefore it has been thought to satisfy the professional player, weary of all the suffered compromises.

1. MIC-IN



1.1. MIC-IN

This microphone input is electronically balanced for XLR type connections. It has been optimized for connecting microphones or other transducers having low impedance and low level. The input is perfect for dynamic or condenser vocal microphones.

1.2. PHASE

In case of feedback, or unwished effects between different channels use the phase reverse switch!

1.3. 48V

Phantom power supplies the XLR connector with 48V for powering condenser microphones.

1.4. GAIN

This variable gain preamplifier adjusts the sensitivity level to ensure the best possible processing of the signal through the channel. It is important that this input level be set and optimised in the best way to achieve the cleanest sound possible.

1.5. DRY OUT

signal can be sent to external systems, for example to another mixer. If you wish to record your music, connect your recorder to the same output and start recording

1.6. HIGH, MID, LOW

These controls are devoted to high, mid and low frequency regulation. Offering cut and boost of +/- 15dB, they allow a wide range of tonal variations to be explored. When the controls are positioned dentrally there is no cut or boost of the selected frequency band.

1.7. RESON

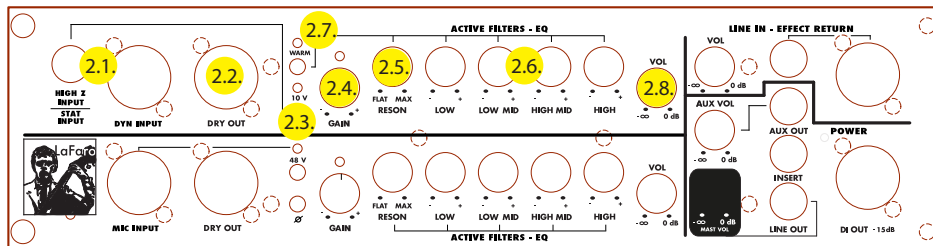
The Resonance (notch) filter cuts the frequency of 150Hz, to reduce low-frequency feedback.

- Left: no attenuation (flat)
- Right: maximum

1.8. VOLUME

This rotary control regulates the channel volume.

2. DYN-IN



2.1. DYN-IN (Combo connector XLR or 1/4" Jack)

This input is electronically balanced for XLR type connections and unbalanced for jack type connections (1/4" - 6.3mm). It has been optimized for connecting microphones or other transducers having low impedance and low level.

The 10V phantom power switch supplies the jack input and may be used for the electrostatic condenser microphones with low sensitivity. This input is also designed for electrodynamic microphones such as SCHERTLER DYN-Series transducers.

2.2. DRY OUT

Signal can be sent to external systems, for example to another mixer. If you wish to record your music, connect your recorder to the same output and start recording

2.3. 10V

Phantom power supplies the jack connector with 10V for powering electret microphones and Schertler Stat, basik and Lydia series.

2.4. GAIN

This variable gain preamplifier adjusts the sensitivity level to ensure the best possible processing of the signal through the channel.

It is important that this input level be set and optimised in the best way to achieve the cleanest sound possible.

2.5. RESON

The Resonance (notch) filter cuts the frequency of 180Hz, to reduce low-frequency feedback.

- Left: no attenuation (flat)
- Right: maximum attenuation

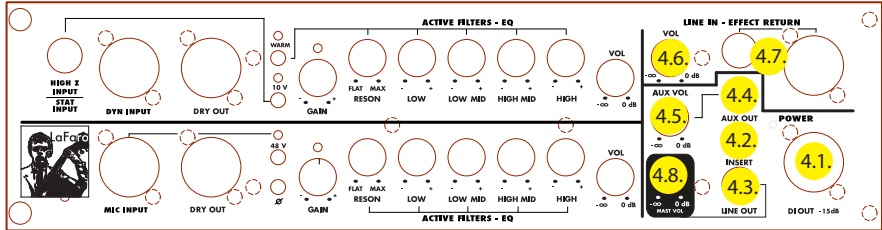
2.6. HIGH, MID, LOW

These controls are devoted to high, mid and low frequency regulation. Offering cut and boost of +/- 15dB, they allow a wide range of tonal variations to be explored. When the controls are positioned centrally there is no cut or boost of the selected frequency band.

2.7. WARM

When engaged, this low-pass filter damps higher frequencies to produce a warmer sound when using bridge-mounted pickups such as Schertler STAT-series transducers for violin, cello and double bass.

4. MASTER SECTION



4.1. DI-OUT

General output. XLR balanced type connector for connections of external systems. The output volume does not depend on the regulation of the MASTER-VOL but is effected by changes in individual channel volume.

4.2. INSERT

This stereo jack plug enables the connection of an external device (compressor, equalizer, etc.) in series to all the outputs.

4.3. LINE-OUT

This unbalanced jack plug enables the connection of external systems. The output volume depends on the regulation of the MASTER-VOL.

4.4. AUX-OUT

Additional output. This mono jack plug enables the connection to other systems. Output volume is PRE-MASTER and POST-EFFECT (internal) REVERB, therefore this jack is independent from MASTER-VOL potentiometer adjustments.

4.5. AUX-VOL

This rotary control sets the output level on the AUX OUT.

4.6. VOL LINE IN - EFFECT RETURN

This rotary control sets the input level on the LINE IN - EFFECT RETURN channel.

4.7. LINE IN - EFFECT RETURN

enables the connection of any external audio control effect. Use the LINE IN - EFFECT RETURN potentiometer to adjust the volume of the return channel.

4.8. MASTER-VOL

Controls overall system volume.

5. REAR PANEL



5.1. NET SWITCH

This switch changes the main power voltage from 230V~ to 120V~

5.2. GROUND LIFT

This switch connects and disconnects the ground between source and amplifier. Use this switch to suppress hum caused by the power mains.

5.3. MAIN PWER CONNECTION

Connection to mains (230V~/120V~ - 50Hz/60Hz)

PLEASE ENSURE THE PROPER VOLTAGE AND USE THE ORIGINAL CONNECTION CABLE!

Fuse carrier: 120V~ - T4 A L 250 V (USA-JAPAN...) or 230V~ - T3.15 A L250 V

5.4. POWER ON/OFF

WARNINGS

PRECAUTIONS

WARNING

Read carefully this manual and follow these precautions before

Keep this manual for possible future needs

Pay attention not to pour liquids onto the device and do not operate in conditions of excessive humidity

Do not install the device close to sources of excessive heat, do not expose it to direct solar radiation and do not position it without protection in a dusty environment

Be sure that the mains voltage does not exceed the value indicated on the back panel

Do not use the device if the mains cable or the plug aren't in a perfect condition (if necessary, replace it)

If the mains cable has to be replaced, the operation must be carried out by qualified personnel. Replace the cable exclusively with one that is an exact substitute

In order to avoid interference, do not install the device close to power transformers, TV sets, RF transmitters, electric motors or any source of electric energy

Do not point microphones against speakers: this could generate annoying whistles (Larsen effect) that cause damage

In order to avoid unpleasant and costly inconveniences, use only original connecting cables

To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC socket

When cleaning, do not use solvents (e.g. acetone or alcohol). These could damage the external finishing and the serigraphy

Do not attempt to service this product. In case of malfunction of any part of the system call the nearest technical assistance centre or a specialized technical centre

For good ventilation, the dissipation vents should never be covered or obstructed by blankets, sofas or similar furniture. Be sure also to leave sufficient clearance between the dissipation vents and any other surface

No source of flames, e.g. candles, should be placed on or near the device

TECHNICAL DESCRIPTION

6.1. DESCRIPTION

Box two way, bass reflex

6.2. ENCLOSURE SECTION

Construction: Plywood
Weight: 19,1kg
Dimensions: 26cm x 42cm x 50cm

6.3. AMPLIFIED SPEAKER SECTION

Freq. resp.: 40Hz - 20kHz (-3dB)
Sensitivity: 92dB
SPL max: 114dB

6.4. TECHNICAL SPECIFICATIONS INPUTS

MIC-IN

Connector: XLR balanced
Sensitivity: -52dB
Impedance: 4.7kohm

DYN-IN

Connector: XLR balanced, JACK 6.3mm
unbalanced
Sensitivity: -52dB
Impedance: 4.7kohm / 820kohm

6.5. TECHNICAL SPECIFICATIONS OUTPUTS

LINE OUT

Connector: JACK 6.3mm unbalanced
Level: 0dBu
Impedance: 100ohm

DRY OUT

Connector: XLR balanced
Level: -15dBu
Impedance: 200ohm

AUX OUT

Connector: JACK 6.3mm unbalanced
Level: 0dBu
Impedance: 100ohm

6.6. COMPONENTS

Woofer: 8" two inches coil
Tweeter: Dome 1"
Cross-over: Active, 24dB/octave
Amplifier: 160W + 30W RMS (320W + 60W peak)
8ohm
0.001% THD (1000Hz)

ALL SCHERTLER® PRODUCTS ARE COVERED BY A LIMITED TWO-YEAR WARRANTY (FROM THE DATE OF PURCHASE) AGAINST MANUFACTURES DEFECTS. DETAILS CAN BE OBTAINED FROM YOUR LOCAL DEALER/REPRESENTATIVE. SCHERTLER SA STRONGLY BELIEVES IN "COMMON SENSE" AND THUS, MISUSE OF OUR PRODUCTS ARE NOT COVERED UNDER RIGHTS OBTAINED THROUGH OUR WARRANTY POLICY OR THAT OF INTERNATIONALLY RECOGNIZED TERMS AND CONDITIONS.

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