- FOUR UNIVERSAL LOW NOISE INPUT CHANNELS FOR MICROPHONE OR LINE •
- SEPARATE TONE CONTROL, SPEECH FILTER AND DIRECT OUTPUT PER CHANNEL
 - **SELECTABLE BLOCKING, SERIAL AND MIXING PRIORITIES**
 - **MULTIFUNCTIONAL INTER-CONNECTION POINT**
 - PRIORITY AND EMERGENCY RELAY OUTPUTS
 - **MASTER VOLUME CONTROL** •

PLENA pre-amplifier LBB1920/00

The PLENA pre-amplifier is a high performance, versatile four input channels mono mixer pre-amplifier, capable of fulfilling the wide variety of public address requirements. All input channels provide a choice of a balanced 3-pin XLR-connector for microphone or line level (selectable), a balanced 5-pin DIN-connector for microphone or line level with priority contact, or a line level stereo Cinch-connector, converted to mono. Microphone inputs have a phantom power supply. Each input channel has its own volume and tone control, a selectable speech filter to reduce the bass content of the speech signal for improved intelligibility, and a balanced direct output on XLR after the channel controls.

Three priority modes are available for the input channels. In the blocking mode the input channel that is activated first gets priority over all other input channels. In the serial mode input channel I has priority over channels 2, 3 and 4, channel 2 has priority over channel 3 and 4, and channel 3 has priority over channel 4. Each of the input channels can be mixed to the master output, irrespective of priority, by separately setting that channel to the mixing mode.

Balanced XLR interconnection input and output are provided in combination with an insertion/cascade selector. In insertion mode an external sound processing device, e.g. an equaliser, can be connected between these connections. In the cascade mode multiple LBB1920/00 pre-amplifiers can be cascaded to increase the number of input channels to 8, 12, or even more. Internally the interconnection input can be switched as an emergency input with a signal level detector (VOX). If an emergency audio signal is detected, this input overrules all other inputs and even bypasses the master volume control. The emergency input has its own internal volume preset.

In order to get a message through although the local volume has been set to a low volume level for e.g. background music, override relay contacts are provid-



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PLENA UNIVERSAL PRE-AMPLIFIER

ed for overriding local loudspeaker volume controls. Upon closing one of the input channel priority contacts, this relay will be activated. For the emergency input another VOX activated relay is provided to trigger external equipment or for local volume control override. An overload protected 24Vdc output is available to supply power to external relays, so no additional external power supply is required for that purpose.

In parallel to the balanced XLR master output an additional microphone level output is available on DIN, to provide a signal to e.g. a mixing desk or microphone mixer amplifier. Furthermore a tape output is provided.

A monitor selector with headphone connector and LED VU-meter allows for monitoring of the master output or one of the input channels.





LBB 1920/00

PLENA UNIVERSAL PRE-AMPLIFIER

ELECTRICAL

Mains voltage 230Vac/115Vac, ±15%, 50/60Hz

Max mains power consumption 25VA

Battery voltage 24Vdc, +20%/-10%

Max battery current

PERFORMANCE

Frequency response 50Hz – 20kHz (+1/-3dB)

Distortion < 0.5%

 Bass control
 ±10dB @ 100Hz

 Treble control
 ±10dB @ 10kHz

 Channel separation
 >70dB @ 1kHz

Priority mute >40dE

INPUTS

Mic/Line inputs I-4 (3-pin XLR/5-pin DIN, balanced)

Sensitivity ImV (microphone), 200mV (line) **Impedance** >1kOhm (microphone),

>5kOhm (line)

S/N (flat at max volume) >63dB (microphone), >70dB (line)

S/N (flat at min volume/muted) >75dB

CMRR >40dB (50Hz - 20kHz)

Headroom >25dB

Speech filter -3dB @ 315Hz, high-pass, 6dB/oct

Phantom power supply 16V via 1.2kOhm, in microphone

mode only

Line inputs I-4 (Cinch, unbalanced, stereo converted to mono)

Sensitivity 200mV

Impedance 22kOhm

S/N (flat at max volume) >70dB S/N (flat at min volume/muted) >75dB

Headroom >25dB

OUTPUTS

Direct outputs I-4 (3-pin XLR, balanced)

Nominal level

Impedance <1000hm

Master output (3-pin XLR, balanced)

Nominal level \forall

Impedance <1000hm

Master output (5-pin DIN, balanced)

Nominal level 4mV (microphone level)

Impedance <1000hm

Tape output (Cinch, 2 x mono)

Nominal level 350mV

Impedance < IkOhm

Headphone output (6.3mm jack stereo, signal mono)

Nominal level 3V

Impedance <1000hm

INTERCONNECTION

Interconnection/emergency input (3-pin XLR, balanced)

Sensitivity 200mV (interconnection),

100mV - IV adjustable (emer-

gency)

Impedance >10kOhm

VOX treshold 45mV (emergency)

Interconnection output (3-pin XLR, balanced)

Nominal level 200mV

Impedance <1000hm

RELAYS

Priority relay contacts 30V, IA
Emergency relay contacts 30V, IA

 $\textbf{DC supply output voltage} \qquad 24 \text{V, } 250 \text{mA max}$

ENVIRONMENTAL CONDITIONS

Operating temperature range $-10 \text{ to } +55^{\circ}\text{C}$ Storage temperature range $-40 \text{ to } +70^{\circ}\text{C}$

Relative humidity <95%

GENERAL

(19" wide, 2U high)

Weight approx. 5kg **19" mounting brackets** included

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Data subject to change without notice



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