

- ALL-IN-ONE SOLUTION FOR BACKGROUND MUSIC AND PAGING •
- CD PLAYER FOR AUDIO AND MP3 CD/CD-R •
- FM/AM TUNER WITH 15 PRESETS AND DIGITAL CONTROL •
- DUAL-ZONE 120 W MIXER AMPLIFIER WITH VOLUME CONTROL PER ZONE •
- SELECTABLE PRIORITY AND VOX SWITCHING ON MICROPHONE INPUT 1 •
- OPTIONAL 2-TONE CHIME TO PRECEDE ANNOUNCEMENTS •

### PLENA BGM/paging system LBB 1970/00

The PLENA BGM/paging system is the versatile All-in-One solution to cover all needs for background music (BGM), making announcements and paging people. This high performance, yet affordable, unit is very easy to install and operate.

It is typically used in shops, supermarkets, restaurants, bars, schools, canteens, gymnasiums, garages and other places where BGM creates the right atmosphere and also where amplified speech needs to be clearly heard.

This unit has a CD-player that not only plays normal audio CDs but also CD-Rs with MP3-encoded files. It has mono operation in accordance with public address needs and allows for a whole day of high quality uninterrupted music playback from a single MP3-disc. Music may be organised on a disc in multiple folders for music selections for different occasions.

The digitally controlled FM/AM tuner uses a frequency synthesizer for accurate capture of radio stations and has 10 presets for FM and 5 for AM to store favorite programs. An auxiliary (music) input and tape output are provided for connecting external equipment like a DVD-player or cassette deck.

The announcement part of the unit has 3 balanced microphone inputs. Microphone input 1 has a DIN socket on the rear for a priority microphone (e.g. the LBB 1950/00) with selectable priority, 2-tone chime to precede a priority announcement, speech filter and phantom power and a phone jack input on the front for a dynamic microphone (e.g. the LBC 2900/15) with selectable VOX activation. Presets are provided for adjusting the music ducking level and the volume of the chime. Microphone inputs 2 and 3 have XLR sockets with selectable phantom power and are mixed with the BGM. All microphone inputs and the music source have their own volume control, with a shared bass and treble tone control and a shared master volume control.



## LBB 1970/00

PLENA BGM/PAGING SYSTEM

The powerful 120 W output section has two transformer-isolated 100 V constant voltage outputs for driving 100 V-loudspeakers in two separate zones. The 100 V-technique reduces line losses on longer distances and allows for easy parallel connection of multiple loudspeakers. Both zones may be individually selected from the front panel and the output level in each zone can be individually set. Each zone also has a low voltage output for connection to 8 Ohm transformerless loudspeakers (e.g. consumer type loudspeakers). A separate 100 V Call Only output is provided for addressing an area where BGM is not required but where priority announcements are. A voltage-free Call Active contact is available for overriding local volume controls during priority calls or other purposes. A LED VU-meter monitors the output.

**LBB 1970/00**

PLENA BGM / PAGING SYSTEM

**ELECTRICAL**

<b>Mains voltage</b>	230/115 VAC, $\pm 10\%$ , 50/60 Hz
<b>Max mains power consumption</b>	400 VA
<b>Max/rated output power</b>	180 W/120 W

**PERFORMANCE**

<b>Frequency response</b>	60 Hz – 18 kHz (+1/-3 dB, @ -10 dB ref. rated output)
<b>Distortion</b>	<1% @ rated output, 1 kHz
<b>Bass control</b>	-8/+8 dB @ 100 Hz
<b>Treble control</b>	-8/+8 dB @ 10 kHz

**INPUTS****Input 1 (5-pin DIN, balanced with phantom power, 6.3mm phone jack)**

<b>Sensitivity</b>	1 mV
<b>Impedance</b>	>1 k Ohm
<b>S/N (flat at max volume)</b>	63 dB
<b>S/N (flat at min volume/muted)</b>	75 dB
<b>Headroom</b>	25 dB
<b>Speech filter</b>	-3 dB @ 315 Hz, high-pass, 6 dB/oct
<b>Phantom power supply (5-pin DIN)</b>	12 V
<b>VOX (on 6.3mm phone jack)</b>	trigger level 0.4 mV attack time 200 ms release time 2s ducking level adjustable

**Input 2,3 (3-pin XLR, balanced with phantom power)**

<b>Sensitivity</b>	1 mV
<b>Impedance</b>	>1 k Ohm
<b>S/N (flat at max volume)</b>	63 dB
<b>S/N (flat at min volume/muted)</b>	75 dB
<b>Headroom</b>	25 dB
<b>Phantom power supply</b>	12 V

**Auxiliary input (Cinch, stereo converted to mono)**

<b>Sensitivity</b>	200 mV
<b>Impedance</b>	22 k Ohm
<b>S/N (flat at max volume)</b>	70 dB
<b>S/N (flat at min volume/muted)</b>	75 dB
<b>Headroom</b>	25 dB

**TUNER****Tuning range**

<b>FM</b>	87.5 - 108 M Hz (EUROPE, 50 k Hz) 87.5 - 108 M Hz (ASIA/AMERICA, 100 k Hz)
<b>AM</b>	531 - 1602 k Hz (EUROPE, 9 k Hz) 530 - 1610 k Hz (ASIA/AMERICA, 10 k Hz)

**Sensitivity**

<b>FM</b>	2 $\mu$ V (26 dB S/N)
<b>AM</b>	30 $\mu$ V (20 dB S/N)

**Performance**

<b>Frequency response</b>	30 Hz - 15 k Hz (+1/-3 dB, FM)
<b>Distortion</b>	<1%
<b>S/N</b>	>63 dB (1 mV, FM)

**CD-PLAYER****Audio CD**

<b>Frequency response</b>	20 Hz - 20 k Hz (+1/-3 dB)
<b>Distortion</b>	<0.1%
<b>S/N</b>	>80 dB

**MP3 CD/CD-R**

<b>Supported bit rates</b>	CBR 32 kbps - 320 kbps and VBR, mono and stereo
----------------------------	---

**General**

<b>Data buffer (shock protection)</b>	8 MByte
<b>Lifetime</b>	>10.000 CD play cycles
<b>Memory for track selection</b>	999 tracks (MP3), 99 tracks (audio CD)

**OUTPUTS****Tape output (Cinch, 2x mono)**

<b>Nominal level</b>	350 mV
<b>Impedance</b>	1 k Ohm

**Loudspeaker outputs (Screw, floating)**

<b>100V outputs</b>	120 W rated (all zones together)
<b>Zone output attenuation taps</b>	100/70/50/35/25/18 V for 0/-3/-6/-9/-12/-15 dB
<b>8Ohm outputs</b>	18 V (40 W rated per zone)

**Call active relay (Screw)**

<b>Contacts</b>	voltage free, max 100V, 2A
-----------------	----------------------------

**ENVIRONMENTAL CONDITIONS**

<b>Operating temperature range</b>	-10 to +45°C
<b>Storage temperature range</b>	-40 to +70°C
<b>Relative humidity</b>	<95%

**GENERAL**

<b>EMC emission</b>	acc. to EN 55103-1
<b>EMC immunity</b>	acc. to EN 55103-2
<b>Safety</b>	acc. to EN 60065
<b>Acoustic noise level of fan</b>	<35 dBSPL @ 1m, temperature controlled
<b>Dimensions</b>	144 x 430 x 320 mm (19" wide, 3U high)
<b>Weight</b>	approx. 11.6 kg
<b>Rack building</b>	not recommended

**PHILIPS***Let's make things better.*