Plena PA Amplifier



Let's make things better



PHILIPS

The name 'Plena' is derived from the Latin word Plenus, meaning 'complete'. That's because the versatile Plena plete' the most complete mixer amplifier in its is the most complete mixer amplifier in its class, with such all-round functionality that you class, with such all-round functions.

Plena manages to offer reliability and high performance at

Plena manages to offer reliability and high performance at

an affordable price. For instance, combining with Philips loudan affordable price with the price price in the price price price in the price price price in the price price

True versatility in put

- Environmental
 design. Reduced
 weight and size. Less
 packaging. Minimized
 harmonic current
 emission
- Meets all CE and safety requirements
- Improved speech intelligibility through selectable speech filters
- Optional 19" mounting brackets





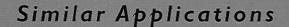
- · Compatibility in connection: choice of XLR, Balanced Phone Jack (BPJ) or DIN connection
- · Easy installation: most settings can be configured on the rear panel
- · Line socket for recording amplifier output
- · 24V DC emergency power back-up option ensures continuity of operation, even without mains power
- Optional 2-tone chime to precede and draw attention to announcements
- · Signal separation for connecting external equipment such as an equalizer (or Profecta Acoustic Feedback Suppressor)
- · Optional Voice operated microphone
- · Power expansion (booster connection)

lic address PHILIPS What's in a name? In the case of Plena, everything!

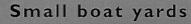
- · Four microphone inputs. Microphone I can be given priority
- · Separate overruling emergency input
- · Individual volume control for each microphone input
- · Choice of CD, tuner or auxiliary music inputs
- · Simple, single-knob control of all outputs

Available models

	230/240 V charcoal	IIOV charcoal	230/240 V mushroom	110 V mushroom
Mixer Amplifier 30 W	LBB 1903/00	LBB 1903/50		
Mixer Amplifier 60 W	LBB 1906/00	LBB 1906/50		
Mixer Amplifier 120 W	LBB 1912/00	LBB 1912/50		
Two-Zone Mixer Amplifier 120 W	LBB 1914/00	LBB 1914/50		
Booster Amplifier-120 W	LBB 1930/00	LBB 1930/50	LBB 1930/01	LBB 1930/51
Booster Amplifier 240 W	LBB 1935/00	LBB 1935/50	LBB 1935/01	LBB 1935/51
19" Mounting Brackets	LBC 1901/00		LBC 1901/01	



Builder's yards



Small car ferries

Garagelshowr



Recommended products listing

Mixing amplifier LBB 1914/x0 (2-zone, 120 W)

Microphones LBB 9094/10 (Priority) LBC 2900/15 (Hand-held)

Showroom
LBC 3950/01 (Ceiling)
LBC 3951/01 (Ceiling)
LBC 3089/01 (Ceiling)
LBC 3090/01 (Ceiling)

LBC 3090/01 (Ceiling)

Loudspeakers

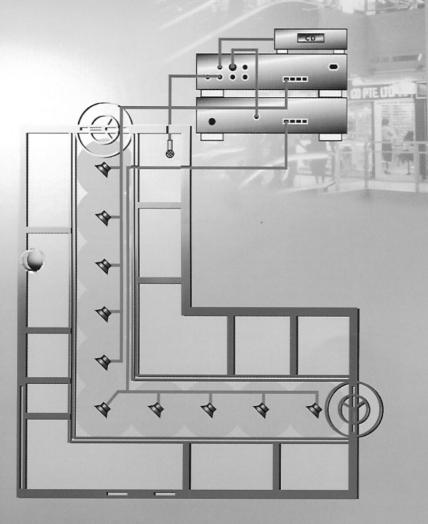
Garage
LBC 3941/0x (Sound projector)
LBC 3931/00 (Cabinet)
LBC 3041/x2 (Cabinet)

LBC 3410/0x (Cabinet) LBC 3411/0x (Cabinet)

Special considerations

Requirement for both background music and speech. Announcements must be clearly audible and have priority over music. The workshop is usually noisier than the showroom,

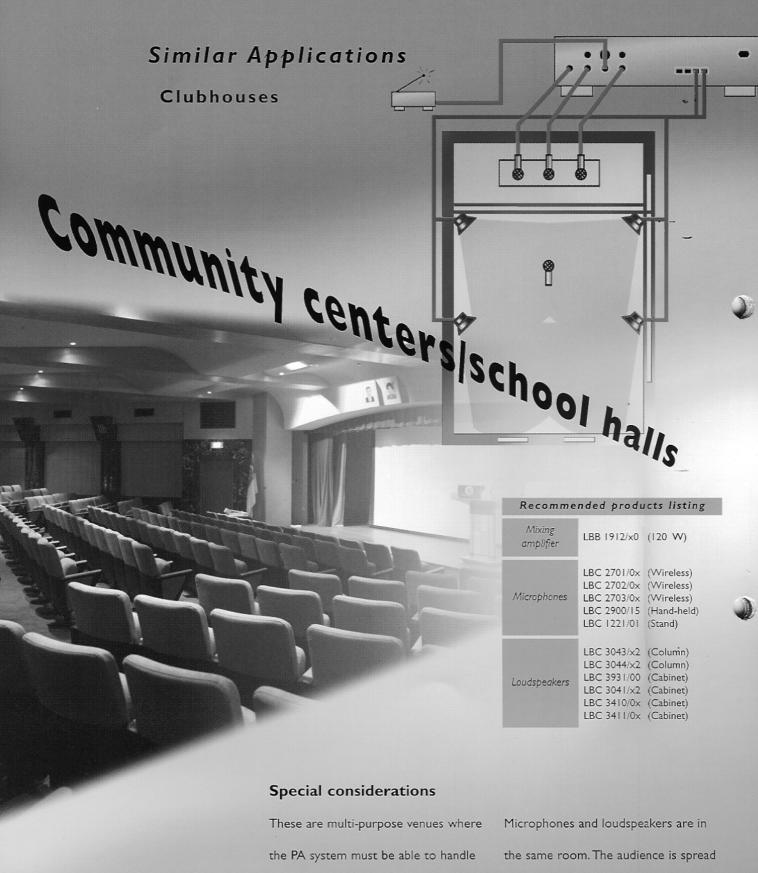
so will require louder music and announcements. Certain announcements will only be intended for a limited area of the premises (i.e. for a mechanic in the workshop).



shopping malls and stores PLAZA OPTICS CENTRE Recommended products listing Mixing LBB 1912/x0 (120 W) amplifier Booster LBB 1930/xx (120 W) Microphone LBB 9094/10 (Table-top) LBC 3950/01 (Ceiling) Loudspeakers LBC 3951/01 (Ceiling)

Special considerations

Requirement for both background music and speech. Announcements must be clearly audible and have priority over music. Sound must be distributed over a large area.



the PA system must be able to handle all types of occasions, from meetings to shows. Different people will be speaking or performing, so multiple microphones are often required.

the same room. The audience is spread over a wide area. A wireless microphone will give greater freedom of movement.

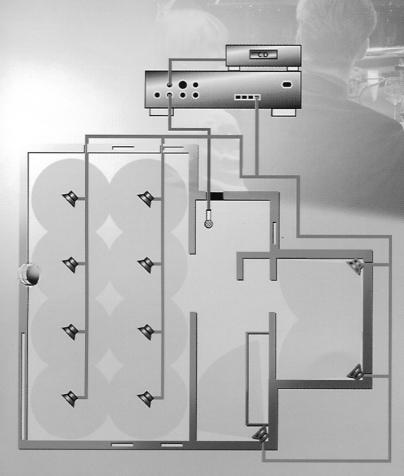
Similar Applications

Community centers

Canteens

Clubhouses

Restaurants



Special considerations

Requirement for both music and speech. Music is generally for background purposes and must be of

good quality. Announcements must be clearly audible and have priority over music.

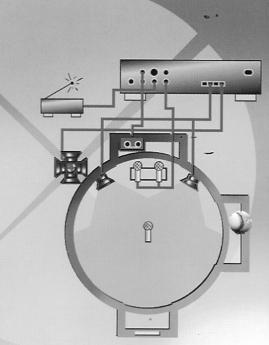
Recommended products listing.

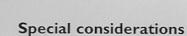
Mixing amplifier	LBB 1912/x0	(120 W)
Boosters	LBB 1930/xx LBB 1935/xx	,
Microphone	LBB 9094/10	(Table-top)
Loudspeakers	LBC 3950/01 LBC 3951/01 LBC 3941/0x LBC 3931/00 LBC 3041/x2 LBC 3410/0x LBC 3411/0x	(Ceiling) (Sound projector) (Cabinet) (Cabinet) (Cabinet)

Similar Applications

Sports facilities

Places of worship



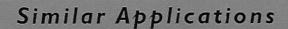


Two-zone area. Speech has to be broadcast inside and outside, at different sound levels. Multiple microphones required. A wireless version would give greater freedom of movement.

Recommended products listing

		3
Mixing amplifier	LBB 1914/x0	(2-zone, I 20 W)
Booster	LBB 1930/xx	(120 W)
Microphones	LBC 2701/0x LBC 2702/0x LBC 2703/0x LBC 2900/15 LBC 1221/01	(Wireless) (Wireless) (Hand-held)
Loudspeakers	Minaret LBC 3493/10 Inside LBC 3042/x2	

LBC 3043/x2 (Column) LBC 3051/03 (Cardioid) LBC 3052/03 (Column)



Tennis courts

Boating lakes

School playing fields

Prison exercise yards

Small campsites

Outdoor recreation areas

Outdoor sports facilities

(swimming pools|athletics tracks|football pitches)

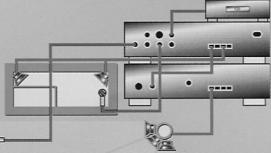
Recommended products listing

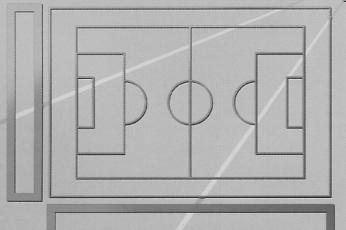
Mixing LBB 1912/x0 (120 W) LBB 1914/x0 (2-zone, 120 W)

Boosters LBB 1930/xx (120 W) LBB 1935/xx (240 W)

Microphone LBB 9094/10 (Table-top)

udspeakers LBC 3492/10 (Horn) LBC 3493/10 (Horn)

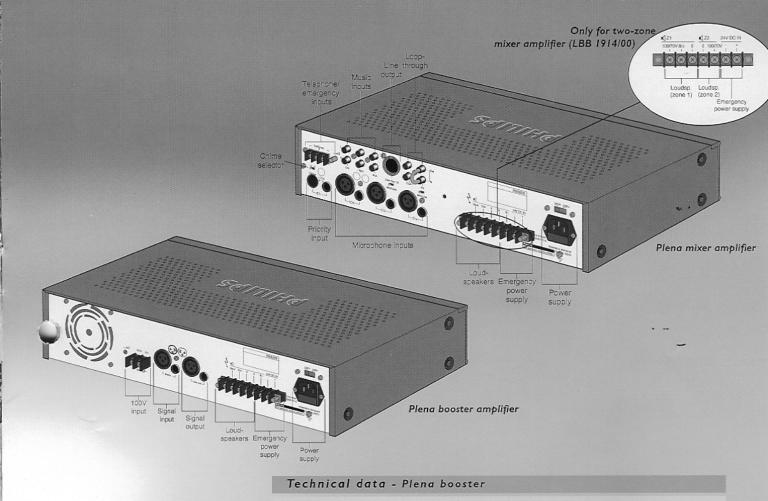




Special considerations

Announcements must be clearly audible over the general background noise. At the same time, sound must be restricted to the sports facility area only. Loudspeakers should therefore be directional, and will be mounted outdoors so must also be weatherproof.





Electrical		
	LBB 1930/00	LBB 1930/50
	LBB 1935/00	LBB 1935/50
Mains voltage	230/240 Vac, ± 10%,	110 Vac.
	50/60 Hz	
Battery voltage	24 Vdc (max. 10% dev	iation)
	LBB 1930/xx	LBB 1935/xx
Max. output power	180 W	360 W
Rated output power	120 W	240 W

Performance			
Distortion	< 1% (at rated ou	tput power at 1 kHz)	
Master volume control range	0 70 dB		
Frequency response of booster	50 Hz18.5 kHz, +1/-3 dB		
	LBB 1930/xx	LBB 1935/xx	
S/N	>80 dB	>85 dB	

Inputs		
Input impedance	20 kΩ	
Sensitivity	I V balanced	

Environmental conditions		
Operating temperature range	0 to +55°C	
Storage temperature range	-40 to +70°C	
Relative humidity	< 95%	

General EMC emission	acc. to EN 55013-1	
EMC immunity	acc. to EN 55013-2	
Mains harmonic current emission	acc. to EN 61000-3-	2
Acoustic noise level of fan	< 40 dBA SPL at Im	distance from source
Dimensions (H x W x D)	100 x 330 x 270mm	
	LBB 1930/xx	LBB 1935/xx
Weight 19" mounting brackets included	Approx. 10.5 kg	Approx. 12.5 kg

Technical d	ata - Plena mixer amplifiers				
Electrical					
		LBB 19xx/00		LBB 19xx/50	
Mains voltage		230/240 Vac, ± 10%, 50/60 Hz	Z	110 Vac	
Battery voltage		24 Vdc (max. 10% deviation)		24 Vdc (max. 10% c	
		LBB 1903/x0	LBB 1906/x0	LBB 1912/x0	LBB 1914/x0
Max. output po Rated output p		45 W 30 W	90 W 60 W	180 W	180 W
rated output p	owe,	30 **	60 44	120 VV	120 VV
Performance					
	onse measured	EQ.11 (0.11) (1.1 (3.10)			
at 10 ab below Bass control	rated output power	50 Hz 18 kHz (+1 / -3 dB)			
Treble control		± 8 dB (at 100 Hz)			
Distortion		± 8 dB (at 10 kHz) < 1% (at rated output power	at 1 (Ula)		
2.0307 17077		ac raced output power	ac 1 K(12)		
Inputs	Input I	Inputs 2-4	Music starre in		F
	(5-pole DIN with phantom power /	(XLR with phantom power /	Music stereo inputs		Emergency input
	6.3 mm phone jack)	6.3 mm phone jack)			
mpedance	I kΩ balanced	l kΩ balanced	22 kΩ unbalanced		20 kΩ balanced
Sensitivity	1.0 mV	I.0 mV	200 mV		100 mV - 1V
S/N	75 dB (volume ccw)	75 dB (volume ccw)	75 dB (volume ccw		75 dB (volume ccw)
Chime	0/2 (OFF/ON) selectable	75 CB (Volume CCW)	75 db (voidine ccw		75 db (volume ccw)
	(2-tone attention signal,				
	DIN input only)				
Speech filter	-3 dB at 315 Hz	-3 dB at 315 Hz			
response	0 00 00 00 00	3 35 40 313 112			
Sensitivity for		200 mV			
Line balanced		(Inputs 3 & 4 only)			
nbut		(
AUX Headroon	1		25 dB		
Attack time	150 msec. (VOX)	1			150 msec. (VOX)
Release time	2 sec. (VOX)	-	-		2 sec. (VOX)
Line/tape out	buts	,		TO REPORT TO SERVICE AND ADDRESS OF THE SERVICE	
		Tape Out	Line out		Insertion Out
Impedance		1.5 kΩ	600 Ω		600 Ω
Level		- 350 mV	1.0 V		1.0 V
Environmento	al conditions				
Operating temp	erature range	-10 to +45°C			
Storage temper		-40 to +70°C			
Relative humidi		< 95%			

acc. to EN 55013-1

acc. to EN 55013-2

Approx. 7 kg

acc. to EN 61000-3-2 100 x 330 x 270 mm LBB 1903/x0

LBB1906/x0

Approx. 8.5 kg

LBB1912/x0

Approx. 10.5 kg

www.philipscss.com

LBB 1914/x0

Approx 10.5 kg

EMC emission

EMC immunity

Mains harmonic current emission

Optional 19" mounting brackets LBC 1901/0x

Dimensions $(H \times W \times D)$