

MAIN FEATURES

- LOW FREQUENCY AND HIGH SPL APPLICATIONS
- HIGH MAGNETIC FORCE FACTOR (BI = 32 Txm)
- LOW DISTORTION
- PHYSICAL PRESENCE UP TO 35 M
- DIMENSIONS COMPARABLE TO A 2 X 13' HORN SUBWOOFER

DESCRIPTION

The Loverbass Bi-221 sets a standard for high-intensity bass, delivering fast, precise, and physical low frequencies. It features a long-excursion subwoofer (64 mm) with two 21" woofers utilizing Eighteen Sound's patented Tetracoil technology (equivalent to a single voice coil >6.0"). Tetracoil is superior for heat dissipation and provides a more efficient magnetic motor, resulting in an extremely accurate loudspeaker with high force factors and low distortion. The Bi221 uses Loverbass's patented, next-generation Bi-Horn loading, which loads both positive and negative woofer half-waves to improve ventilation, maintain low impedance, and reduce power compression, promoting greater air displacement than traditional horns. The design's key benefits include:

- Unmatched acoustic impact.
- Low intermodulation distortion.
- Excellent heat dissipation.
- Optimal size/weight-to-power ratio.

The integrated Class D amplifier delivers a high output of 3000 W RMS + 3000 W RMS. It incorporates advanced technologies like Smart Rails Management (SRM) for improved idle consumption and lower noise, and Power Factor Control (PFC) for optimizing electrical consumption and providing an output voltage of up to 300 Vpeak per woofer.

ACCESSORIES

LoverBAG Bi-2221



Offers superior protection during transportation, reducing the risk of damage.

LoverROLL_4



Set of 4 swivel/caster wheels D = 100mm with double bearing and brake

Skateboard H Bi-221



Dynamic load capacity 450 kg Ultra-resistant

Skateboard V Bi-221



Dynamic load capacity 450 kg Ultra-resistant

AUDIO

System type: SUBWOOFER DUAL 21" HYBRID HORN BAND-PASS
 Sound pressure¹: 147 dB peak SPL
 Frequency response²: 23 Hz – 120 Hz (-6 dB) Half Space
 Power handling⁴: 3600 W aes / 16.000 W Peak
 Sensitivity (2.83V/1m): 104.5 dB

AMPLIFIER

Amplifier type: 2-channel Class-D amplifier (Powersoft®)
 Total power output: 2 x 3000 W rms at 8 Ohm
 DSP functions: limiter, EQ presets, Delay (4 presets on board)

TRANSDUCERS

LF driver: 2 x 21" cone drivers, 4.5" Tetracoil double voice coil, neodymium magnet

CONNECTIONS

Signal: XLR F/M Balanced
 Network: RJ-45
 Power Socket: Neutrik® PowerCON input/output

ENCLOSURE

Cabinet material: 18 & 20 mm birch plywood, textured paint finish, RAL 9005
 Dimensions: 636 x 1518 x 919 mm (H x W x D)
 Net weight: 125 kg / 275 lbs

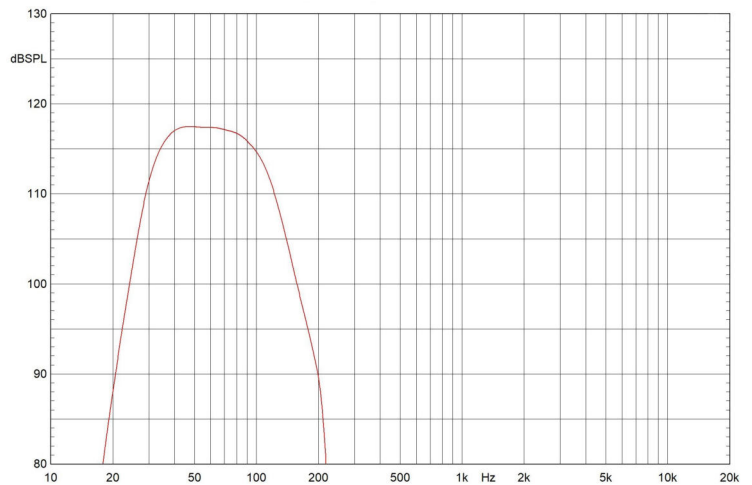
POWER REQUIREMENTS

Power supply: 100-240 VAC ±10%, 50-60 Hz (universal switching PSU)
 Power consumption⁵: 1200 W

1 - Sound pressure: Peak SPL calculated by summing the acoustic intensity across the full spectrum.
 2 - Frequency response measured as the range within which the power-averaged SPL stays within the stated tolerance. Narrow-band dips are excluded.
 3 - Dispersion: defined by -6 dB points relative to the on-axis response.
 4 - Power handling: 2 hours test made with continuous pink noise signal within the range Fs -10Fs. Power calculated on rated minimum impedance. Loudspeaker in free air.
 5 - Power consumption: measured with filtered pink noise, 6 dB crest factor, into nominal load, according to AES2-2012 standard.



Frequency response on axis -20dBu at 1m



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