708P

8” Bi-Amplified Master Reference Monitor



HIGHLIGHTS

Next-generation JBL driver technology
for greater output, dynamic range and superior frequency response

Patent-pending Image Control Waveguide
for exceptional imaging, detail, a wide sweet spot and neutral response in any room

Integrated 250W + 250W dual-amplification system
provides exceptional output and greater listening distances

Comprehensive room EQ controls
enable you to compensate for the adverse effects of room acoustics

Compact enclosures
for easy placement and installation where space is limited

JBL 708P is the self-powered reference monitor for critical music recording, film post and broadcast production applications. The 708P leverages new patent-pending driver technologies and JBL’s renowned Image Control Waveguide to deliver extraordinary output, stunning detail, an expansive sound stage, and greater accuracy in a broad range of rooms. 708P delivers several times the output of other comparably-sized studio monitors, providing significantly greater dynamic range and greater working distances.

KEY MESSAGES

NEXT-GENERATION DRIVER TECHNOLOGY

JBL 708P leverages JBL patents and next-generation driver technologies to provide unparalleled output with greater dynamic range and extended frequency response in demanding production applications. The JBL 2409H high-frequency compression driver incorporates an innovative low-mass annular diaphragm to deliver smooth response beyond 36 kHz, with extraordinary output and very low distortion. The 728G low-frequency transducer leverages JBL patented Differential Drive® technology to reduce power compression for greater sustained output and extended, linear low-frequency performance below 35 kHz. These proprietary drivers allow the 708P to deliver two to three times the output of conventional studio monitors.

PATENTED IMAGE CONTROL WAVEGUIDE

First introduced in the JBL M2 Master Reference Monitor, the JBL Image Control Waveguide ensures accuracy and neutrality while providing a wide sweet spot with increased sonic detail. By enabling an acoustically seamless transition between the woofer and high-frequency transducer, the waveguide provides a detailed sound stage and accurate imaging across the entire frequency spectrum. Smooth, neutral on- and off-axis frequency response allows the JBL 708P to deliver neutral response across a wide listening area in a broad range of rooms.

INTEGRATED DUAL AMPLIFICATION SYSTEM

JBL 708P features a built-in dual amplification system that’s optimized for its high-output drivers. A 250W amp powers the 2409H high-frequency transducer and a 250W amp is dedicated to the 728G low-frequency transducer. This combination delivers unparalleled output and detail at greater listening distances, making the 708P ideal for post production and mastering environments.

COMPREHENSIVE ROOM EQ

The 708P design yields exceptional neutrality in any room, the monitor also features on board room equalization, so you can compensate for the adverse effects of room acoustics and enjoy the most accurate sound reproduction in any listening environment. In addition to eight bands of Room EQ, twelve bands of User EQ allow customized response curves such as the X-Curve, and compensation for “transmission-loss” when placed behind a perforated cinema screen. User-enabled digital delay allows virtual alignment of speakers relative to the listening position, while additional AV Synchronization delay is available to compensate for latency in video displays and align with distant FOH systems.

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SYSTEM INTEGRATION

- Integrated amplification and digital signal processing (DSP) room EQ
- 7 Series studio monitors and the JBL M2 master reference monitor can be combined to produce multi-channel systems in any size room
- Compact enclosures and mounting hardware allow versatile mounting options and unobstructed sight lines

FEATURES

- JBL 728G Low Frequency Transducer with Differential Drive® delivers low distortion and high SPL
- JBL 2409H High Frequency Transducer with low-mass annular diaphragm
- JBL patented Image Control Waveguide
- 2-channel 250W/LF, 250W/HF Class-D amplifier with DSP
- 8 Room EQ and 6 User EQ filters
- 1 x XLR balanced analog audio input
- 1 x XLR AES3 digital input with 1 x XLR pass-through output
- Digital input will accept sample-rates of up to 192 kHz
- RJ-45 network connection for Harman HiQnet connectivity
- Rear panel multi-function controls and LCD display allow selection of Input Sensitivity, Input Trim, Room EQ, User EQ, Room Delay, AV Sync Delay
- Integrated Handles
- Top and bottom mounting points; birch plywood cabinets reinforced for safe mounting
- Protective steel grilles

SPECIFICATIONS

LF DRIVER SIZE:	203mm (8”)
LF DRIVER TYPE:	JBL728G
HF DRIVER SIZE:	25mm (1”)
HF DRIVER TYPE:	JBL 2409H Compression Driver
CROSSOVER:	1750 Hz
POWER CONFIGURATION:	Bi-Amplified
HF DRIVER POWER AMP:	250W Class D
LF DRIVER POWER AMP:	250W Class D
FREQUENCY RESPONSE +/-3 dB:	41Hz-25kHz
LF FREQUENCY EXTENSION (-10dB):	35Hz
MAXIMUM CONTINUOUS SPL*:	108 dB
MAXIMUM PEAK SPL*:	114 dB
MAXIMUM PEAK INPUT LEVEL:	+9 dBV / +23.3 dBu
ELECTRICAL DISTORTION CRITERIA:	0.1%THD @ 1kHz/2.83VRMS output; <0.5% THD @ 1kHz, Full rated output
SIGNAL TO NOISE RATION, HF:	92dBA (A-Weighted), 83dBr (unweighted), relative to 2.83VRMS output on HF
SIGNAL TO NOISE RATIO, LF:	85dBA (A-Weighted), 80dBr (unweighted), relative to 2.83VRMS output on LF
ANALOG INPUT TYPE:	1 x XLR, Female Balanced
DIGITAL INPUT TYPE:	1 x XLR, Female Balanced
DIGITAL INPUT FORMAT:	AES3
DIGITAL PASS THROUGH:	1 x XLR, Male
ACCEPTABLE DIGITAL AUDIO SAMPLE RATES +/- 1%:	44.1 kHz, 48 kHz, 88.2 kHz, 176.4 kHz, 192 kHz
ROOM EQUALIZATION:	8 parametric filters
USER EQUALIZATION:	4 parametric filters, plus HF Shelf, LF Shelf
ROOM DELAY:	18ms
FRAME (A/V) DELAY:	150ms
A/D, D/A CONVERTER:	24 bit / 192 kHz A/D, 32 bit / 192 kHz D/A
INTERNAL PROCESSING:	32 bit Floating Point. 192 kHz Sample Rate
NETWORK INTERFACE:	Harman HiQnet™ RJ45 Connector
AC INPUT VOLTAGE:	100-240VAC 50/60Hz +/-10%
ENCLOSURE TYPE:	Ported with patented JBL SlipStream™ port tube
CONSTRUCTION:	12 mm Birch Plywood
H x W x D mm (Inches):	441 x 250 x 312 (17.35 x 9.85 x 12.3)
WEIGHT:	11.5 kg (25.2 lbs)
SHIPPING CARTON (H x W x D):	565 x 359 x 419 mm (22.25 x 14.12 x 16.5 in.)
SHIPPING WEIGHT:	18.1 kg (39.92 lbs.)

ORDER SPECIFICATIONS

BOX DIMS (L X W X H):	16 in x 13.5 in x 23.7 in
SHIPPING WEIGHT:	37 lbs
UPC CODE:	691991006333

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