705P

5” Bi-Amplified Master Reference Monitor



HIGHLIGHTS

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

Patented 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

The JBL 705P is the self-powered reference monitor for critical music recording, film post and broadcast production applications. The JBL 705P leverages the same patent-pending driver technologies and JBL’s renowned Image Control Waveguide found in the 708P and flagship M2, but with a smaller footprint. Despite its compact size, JBL 705P delivers an eye-opening level of output, well beyond that of conventional, comparably-sized studio monitors, for greater dynamic range and greater working distances. The speakers deliver an expansive soundstage, and pristine accuracy in a broad range of rooms.

KEY MESSAGES

NEXT-GENERATION DRIVER TECHNOLOGY

JBL 705P leverages next-generation JBL driver technologies to deliver greater dynamic range and superior frequency response. The 2409H high-frequency compression driver incorporates an innovative low-mass annular diaphragm to deliver smooth response beyond 36 kHz, with very low distortion. The 725G low-frequency transducer provides 14mm peak-to-peak excursion with greater linearity, delivering exceptional low-frequency output below 39 Hz. These proprietary drivers allow the 705P to deliver two to three times the output of existing studio monitors.

PATENTED IMAGE CONTROL WAVEGUIDE

First introduced in the JBL M2 Master Reference Monitor, the JBL patent-pending, 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 high and low frequency transducers, the 705P delivers accurate imaging across the entire frequency spectrum. The smooth, on- and off-axis frequency response allows the JBL 705P to deliver neutral response across a wide listening area in a broad range of rooms.

INTEGRATED DUAL AMPLIFICATION SYSTEM

JBL 705P features a built-in dual amplification system that’s optimized for its high-output drivers. A 250W amp powers the 2409H high-frequency transducer, while a second 250W amp is dedicated to the 725G low-frequency transducer. This combination provides exceptional output and allows greater listening distances, making the 705P ideal for post production and mastering environments.

COMPREHENSIVE ROOM EQ

The 705P design yields exceptional neutrality in any room, the speaker 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 for 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 FOH systems.

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SYSTEM INTEGRATION

- Integrated amplification and digital signal processing (DSP) room EQ
- JBL 7 Series and JBL M2 Master Reference Monitors can be combined for multi-channel systems in any size room
- Compact enclosures and mounting points allow versatile mounting options and unobstructed sight lines
- HARMAN HiQnet™ port enables feature updates as they become available
- Also available: JBL 7 Series installe models and the JBL Intonato 24 Monitor Management Tuning System for complete scalable monitoring solutions in multi-channel and immersive applications

FEATURES

- JBL 725G low-frequency transducer delivers low-distortion and high SPL
- JBL 2409H high-frequency transducer with low-mass annular diaphragm
- JBL patented Image Control Waveguide
- 2-channel Class-D amplifier
- 192 kHz, 32-bit floating point processing
- 8 Room EQ and 6 User EQ filters
- 6 factory presets, 6 user-defined presets
- 18 milliseconds of Room Delay, 150 milliseconds of AV Sync Delay
- 1 x XLR balanced analog audio input
- 1 x XLR AES3 format digital input with 1 x XLR pass-through output
- Digital input accepts 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
- Top and bottom mounting points; birch plywood cabinets reinforced for safe mounting
- Protective steel grilles

SPECIFICATIONS

LF DRIVER SIZE:	127mm (5”)
LF DRIVER TYPE:	JBL725G
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:	45Hz-25kHz
LF FREQUENCY EXTENSION (-10dB):	39Hz
MAXIMUM CONTINUOUS SPL*:	101 dB
MAXIMUM PEAK SPL*:	107 dB
MAXIMUM PEAK INPUT LEVEL:	-10 dBV / +4 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:	9 mm Birch Plywood
H x W x D mm (Inches):	268 x 151 x 274 (10.56 x 5.94 x 10.80)
WEIGHT:	5.68 kg (12.5 lbs.)
SHIPPING CARTON (H x W x D):	394 x 254 x 375 mm (15.5 x 10 x 14.25 in.)
SHIPPING WEIGHT:	8.01 kg (17.67 lbs.)

ORDER SPECIFICATIONS

BOX DIMS (L X W X H):	14 in x 9.5 in x 16.9 in
SHIPPING WEIGHT:	17.6 lbs
UPC CODE:	691991006326

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