



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for JBL CONTROL 29AV. You'll find the answers to all your questions on the JBL CONTROL 29AV in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

## User manual JBL CONTROL 29AV User guide JBL CONTROL 29AV Operating instructions JBL CONTROL 29AV Instructions for use JBL CONTROL 29AV Instruction manual JBL CONTROL 29AV

### JBL Professional Series Control<sup>®</sup> 29AV High Output Indoor/Outdoor Monitor Speaker

#### Professional Series

#### Key Features:

- Extended bandwidth, extremely smooth frequency response.
- 110° x 85° HF coverage, rotatable horn.
- 110 Watt transformer for 70V or 100V lines, with 8Ω taps.
- SonicGuard<sup>®</sup> overload protection.
- 200 mm (8") Kevlar cone woofer, 25 mm (1") titanium diaphragm compression driver.
- Includes InvisBall<sup>®</sup> mounting hardware, plus ten 6 mm attachment points for suspension and optional U-bracket.
- Sealed input panel cover and screw-down input terminals.

The Control<sup>®</sup> 29AV utilizes high power components, computer optimized horn and cabinet design and complex network to achieve smooth high fidelity performance, extended bandwidth and well-controlled defined coverage from a compact loudspeaker.

A rotatable high-frequency horn allows use of the speaker in either vertical or horizontal orientation. Smooth frequency response and even coverage ensures excellent sound character throughout the listening area. Partial magnetic shielding allows use of the speaker as close as 230 mm (9") to video monitors.

The top-quality line distribution transformer, designed for minimal insertion loss and reduced saturation, allows use of either 70V or 100V distributed speaker lines. In bypass position, the high 8Ω impedance allows use of multiple speakers on a loudspeaker line.

The included InvisBall mounting method is simple to install, aims easily and provides a high degree of flex. InvisBall allows horizontal rotation of up to 41° off-axis and vertical rotation of up to 36° (horn end inward) or 28° (woofer end inward). Attachment points for the optional MTC-29UB U-bracket allows for compact installation and is particularly useful for low profile undercavity applications.

Weather resistance has been maximized. The woofer's cone is made of kevlar, surround is pure butyl rubber, and the driver basket is rear loaded to minimize direct exposure. The compression driver's diaphragm is pure titanium. The grille is thermoset composite coated and comes with foam to minimize the amount of water. Nickel/zinc rust-resistant terminals ensure a secure input connection. An MTC-PC2 sealed-entrance cover is included to further protect the speaker's terminals.

JBL's exclusive SonicGuard overload protection is virtually invisible to the listener, ensuring reliability while providing full fidelity sound.



Available in black or white (WH). The cabinet will accept a variety of paints to match any decor.

#### Specifications:

Frequency Range <sup>1</sup> (10dB)	40 Hz - 20 kHz
Frequency Response <sup>2</sup> (±3dB)	45 Hz - 18 kHz
100 Hz Power Capacity <sup>3</sup>	200 Watt continuous program power
Maximum Sensitivity <sup>4</sup>	150 Watts Continuous Peak Noise
Maximum SPL @ 1m	120 dB (100W) 121 dB (100W) 121 dB
Minimum Sensitivity <sup>5</sup>	110 dB (1W) 110 dB (1W)
Mounting Coverage Angle <sup>6</sup>	110° HF x 85° V (rotatable)
Impedance (Rated) <sup>7</sup>	8 Ω (average) 500 Hz to 10 kHz
Impedance (Max) <sup>8</sup>	8 Ω (DC average) 500 Hz to 10 kHz
Minimum Impedance <sup>9</sup>	8 Ω (min)
Maximum Impedance <sup>10</sup>	8 Ω (max) @ 400 Hz
Crossover Type <sup>11</sup>	2nd order high pass and 2nd order low pass with inductor compensation, 25 kHz crossover frequency
Transformer Tap <sup>12</sup>	70V, 100V, 50W, 20W, 8, 16W
	100V, 110W, 55W, & 28W
Recommended High-Line <sup>13</sup>	See table
Time Delay <sup>14</sup>	Low Frequency: 200 ms (rear cover with glass tape removed, 50 mm (2 in.) voicecoil on fiberglass frame)
	High Frequency: 25 mm (1 in.) compression driver, pure titanium diaphragm with galvanized JBL diamond surround
Finish <sup>15</sup>	Enclosure Material: High impact polycarbonate
	Grille: Polyester composite construction
Overload Protection <sup>16</sup>	Electronic power limiting for perfect network and bandwidth. Servicable internal fuse to protect during exceptional overload conditions.
Environment <sup>17</sup>	IEC 60335-1 electrical rating. Exceeds UL500 for humidity, salt spray, temperature & UV. Passes MIL-STD-202F for salt spray.
Construction <sup>18</sup>	Non-ferrous resistant single-point welded copper base, nickel plated metal screws/washers. Accepts up to 9 mm (3/8 in.) inside open lag (Ø5, Ø6 or Ø10 lag) plus base wide (up to 12 AWG/2.5 mm <sup>2</sup> )
Safety Agency Rating <sup>19</sup>	Transformer in safety per UL1819
Input Connector <sup>20</sup>	See table
Dimensions (H x W x D)	320 x 200 x 220 mm (12.5 x 7.87 x 8.66 in)
Shipping Weight (kg)	4.13 kg (9.10 lbs)
Mounting Accessories <sup>21</sup>	U-Bracket MTC-29UB, input panel cover, terminal mounting base, 6 mm x 200 mm InvisBall Hex wrench.
Optional Accessories <sup>22</sup>	MTC-PC2 for rear speaker driver from line center MTC-29UB U-bracket

<sup>1</sup> Distortion Free Zone using a 100 Hz input signal with a 0 dB crest factor for 1000 hours continuously. Continuous program power is defined as 0.6 dB above the continuous peak. Noise floor and a correction to the system. <sup>2</sup> Standard 1 ms attack and 10 ms decay, 100 ms compression rate assumed. <sup>3</sup> Reference: 1000 Hz (0 dB), 1 kHz to 1 kHz. JBL continually engages in research and development. Changes considered and existing products without notice are an expression of that philosophy.



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**Manual abstract:**

110° x 85° HF coverage, rotatable horn. 110 Watt transformer for 70V or 100V lines, with 8 thru. SonicGuard™ overload protection. 200 mm (8") Kevlar cone woofer, 25 mm (1") titanium diaphragm compression driver. Sealed input panel cover and screwdown input terminals. Partial magnetic shielding allows use of the speaker as close as 230 mm (9") to video monitors. The top-quality line distribution transformer, designed for minimal insertion loss and reduced saturation, allows use of either 70V or 100V distributed speaker lines. In bypass position, the high 8 impedance allows use of multiple speakers on a loudspeaker line. The included InvisiBall mounting method is simple to install, aims easily and provides a high degree of theft deterrence. InvisiBall allows horizontal rotation of up to 41° off-axis and vertical rotation of up to 36° (horn end inward) or 23° (woofer end inward). Weather resistance has been maximized. The compression driver's diaphragm is pure titanium. JBL's exclusive SonicGuard overload protection is virtually inaudible to the listener, ensuring reliability while providing full fidelity sound. Available in black or white (-WH). The cabinet will accept a variety of paints to match any décor.

Specifications: Frequency Range (-10 dB): 40 Hz 19 kHz Frequency Response ( $\pm 3$  dB): 45 Hz 18 kHz 100 Hr Power Capacity 2: 300 Watts Continuous Program Power 150 Watts Continuous Pink Noise Maximum SPL @ 1m: Short-Term: 120 dB; Long-Term: 114 dB 4 Nominal Sensitivity : 91 dB, 1W @ 1 m (3.3 ft) Nominal Coverage Angle: 110° H x 85° V, rotatable Directivity Factor (Q): 7.2, averaged 500 Hz to 16 kHz Directivity Index (DI): 8.6 dB, averaged 500 Hz to 16 kHz Nominal Impedance: 8 ohms Minimum Impedance: 6.3 ohms @ 230 Hz Crossover Type: 3rd order High Pass, 2nd order Low Pass with impedance compensation, 2.

5 kHz crossover frequency Transformer Taps: 70V: 110W, 55W, 28W & 14W 100V: 110W, 55W, & 28W Thru Position: 8 nominal Recommended High-Pass: See chart Transducers: Low Frequency: 200 (8 in) kevlar cone with pure butyl rubber surround, 50 mm (2 in) voicecoil on fiberglass former High Frequency: 25 mm (1 in) compression driver, pure titanium diaphragm with patented JBL diamond surround Physical: Enclosure Material: High impact polystyrene Grille: Thermoset composite coated steel Overload Protection: Full-range power limiting to protect network and transducers. Serviceable internal fuse to protect during exceptional overload conditions. Environmental: IEC 529 IP-X4 splashproof rating. Exceeds MilSpec 810 for humidity, salt spray, temperature & UV. Passes Mil-Std-202F for salt spray. Termination: Screw-down terminal strip, zinc plated copper base, nickel plated metal screws/washers. Safety Agency Rating: Transformer is listed per UL1876. Calculated from sensitivity and power handling. Power compression not considered. @ 100 Hz to 10 kHz).

The input shall be switchable for use either at nominal 8 ohms, or on a 70.7V or 100V distributed speaker line via built-in transformer. Selectable taps shall nominally be 110W, 55W, or 28W on either a 70.7V or 100V distributed speaker line, plus 14W on 70.7V line only. The system shall be protected against damage from occasional overpowering via full range limiting, which shall be inaudible during activation. The compression driver shall be horn-loaded to cover 110 degrees by 85 degrees with a high degree of accuracy and the horn shall be rotatable to achieve these coverages either in the horizontal or vertical planes, regardless of cabinet orientation. The cabinet and grille shall be paintable. Further, it shall pass Mil-Std-202F (method 101D) for salt spray. The system shall have an IEC 529 splashproof rating of IP-X4.

The included ball mechanism shall be internal to the cabinet. The cabinet shall have ten (10) 6 mm mounting points, including 2 on each side and 3 on top and bottom and an accessory U-bracket shall be available. The grille logo shall be rotatable for proper orientation with loudspeaker mounted horizontally or vertically. The external wiring connectors shall be screw-down terminals. Overall cabinet dimensions shall be no greater than 520 mm high x 306 mm wide x 277 mm deep (20.

5 x 12.0 x 10.9 in) and shall weigh no more than 12.2 kg (26.8 lb).

The finish shall be lightly textured black or white. (Highpass slope is 24 dB/oct) High-Pass Recommendations for Control 29AV 14 Watt Tap 28 Watt Tap 55 Watt Tap 110 Watt Tap 8 Ohm Setting 1 or 2 speakers 3 or more speakers 30 Hz 35 Hz 35 Hz 40 Hz 60 Hz 70 Hz 80 Hz 90 Hz No high-pass required JBL Professional 8500 Balboa Boulevard, P. O. Box 2200 Northridge, CA 91329 USA A Harman International Company SSCONTROL 29AV CRP 10M 2/01 .



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