

2100-LFC Low-Frequency Control Element



The loudspeaker shall be a linear, low-distortion, self-powered, low-frequency control element which shall be capable of flown and groundstacked configurations. Its transducer shall be one 21-inch long-excursion cone driver.

The loudspeaker shall incorporate internal processing and a 2-channel class-D amplifier. Protection circuits shall include TruPower limiting. The analog audio input shall be electronically balanced with a 10 k Ω impedance and accept a nominal 0 dBV (1.0 V rms) signal. Analog audio connectors shall be XLR 3-pin Neutrik True Outdoor Protection (TOP), female and male. The digital audio input format shall be Milan AVB and the connector shall be a Neutrik etherCON TOP.

Performance specifications for a typical production unit shall be as follows: the operating frequency range shall be 30 Hz – 125 Hz; frequency response shall be 30–112 Hz \pm 4 dB, measured in half-space with pink noise at 4 m, 1/3-octave frequency resolution; phase response shall be 41–121 Hz \pm 30 degrees; the AES75 Maximum Linear Sound Levels shall be 139.1 dBZpk, 129.2 dBZ, with an RMS input level of +6.0 dBV for analog, -17.8 dBFS for digital, measured in half-space at 4 m, referred to 1 m.

The internal power supply shall perform EMI filtering, soft current turn-on, and surge suppression. Power requirements shall be nominal 200 – 240 V AC, 50–60 Hz. Power shall be 1200 W maximum long-term continuous (>10 seconds), 2400 W burst (<1 second). The AC power connector shall be a Neutrik powerCON TRUE1 True Outdoor Protection (TOP). The loudspeaker shall include a telemetry monitoring function via Ethernet network.

Components shall be mounted in an optimally tuned, vented enclosure constructed of premium multi-ply birch and coated with a slightly textured black finish. The front protective grille shall be powder-coated stamped steel.

The IP rating shall be IP55 when connected cables are terminated with Neutrik TOP connectors or when the connector sealing caps are in place.

Dimensions shall be 43.49 in (1105 mm) wide, 24.25 in (616 mm) high, and 26.00 in (660 mm) deep.

Weight shall be 235 lbs (106.6 kg).

The loudspeaker shall be the Meyer Sound Laboratories 2100-LFC Low-Frequency Control Element.

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