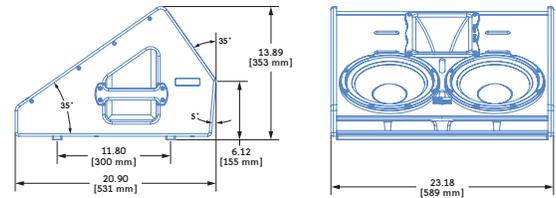


# MJF-210 Low-Profile High-Power Stage Monitor



**Dimensions** 23.18" w x 13.89" h x 20.90" d  
(589 mm x 353 mm x 531 mm)

**Weight** 67 lbs (30.4 kg)

**Enclosure** Premium birch plywood

**Finish** Black textured

**Protective Grille** Powder-coat, hex-stamped steel with black mesh screen

The MJF-210 low-profile high-power stage monitor reproduces audio faithfully with high intelligibility at high output levels with ample low-frequency headroom. The self-powered MJF-210 exceeds the stringent requirements of today's touring applications, withstanding the rigors of road and stage while occupying a small, lightweight footprint and a fraction of the truck space of similar monitors requiring external amplification.

The MJF-210's phase-corrected 55 Hz to 18 kHz frequency range ensures that vocals and instruments are reproduced accurately with low distortion and no signal coloration. Exhibiting flat phase and frequency responses, as well as exceptional impulse response, the MJF-210 surpasses the sonic capabilities of

conventional stage monitors while offering the simplicity of self-powered setup and operation.

The MJF-210's durable, vented enclosure houses two high-power, long-excursion, 10-inch low-frequency drivers, as well as a 4-inch diaphragm compression driver coupled to a 50-degree horizontal by 70-degree vertical constant directivity horn. The face of the low-profile cabinet slopes 35 degrees from the stage, ensuring optimal monitoring for the performer, permitting freedom to move upstage and downstage while remaining within the horn's consistent, wide vertical coverage.

Drivers are powered by a 3-channel, class D amplifier. The Intelligent AC™ power supply

provides automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression.

The optional RMS™ remote monitoring system module provides comprehensive monitoring of loudspeaker parameters from a Mac® or Windows®-based computer. Optional XLR 5-pin connectors allow the use of composite cables carrying both RMS and balanced audio.

Constructed of premium birch plywood, the MJF-210's cabinet is coated with a black-textured finish and includes protective rubber strips on the bottom of the unit that prevent changes in position due to vibrations. A hex-stamped steel grille lined with acoustical black mesh protects the drivers.

## FEATURES & BENEFITS

- Self-powered system guarantees simplified setup and operation
- Small lightweight footprint with no external amplification occupies less truck space
- Low profile cabinet preserves onstage sight lines

- Wide vertical coverage permits the freedom to move upstage and downstage
- High peak power ensures excellent transient response
- Flat frequency and phase responses yield high gain before feedback

## SOLUTIONS

- Main vocal monitor
- High output instrument monitor

## MJF-210 SPECIFICATIONS

<b>ACOUSTICAL</b>	<b>Operating Frequency Range</b> <sup>1</sup> 55 Hz – 18 kHz <b>Frequency Response</b> <sup>2</sup> 60 Hz – 16 kHz ±4 dB <b>Phase Response</b> 200 Hz – 16 kHz ±45 degrees																								
<b>COVERAGE</b>	<b>Horizontal</b> 50 degrees <b>Vertical</b> 70 degrees																								
<b>CROSSOVER</b>	830 Hz <sup>3</sup>																								
<b>TRANSDUCERS</b>	<b>Low Frequency</b> Two high-power 10-inch cone drivers <b>High Frequency</b> One 4-inch diaphragm compression driver																								
<b>AUDIO INPUT</b>	<b>Type</b> Differential, electronically balanced <b>Maximum Common Mode Range</b> ±5 V DC <b>Connectors</b> <sup>4</sup> XLR female input with XLR male loop output <b>Input Impedance</b> 10 kOhm differential between pins 2 and 3 <b>Wiring</b> <sup>5</sup> Pin 1: Chassis/earth through 1 kOhm, 1000 pF, 15 V clamped network to provide virtual ground lift at audio frequencies Pin 2: Signal (+) Pin 3: Signal (-) Pin 4: RMS (polarity insensitive) Pin 5: RMS (polarity insensitive) Case: Earth ground and chassis <b>DC Blocking</b> Differential DC blocking up to the maximum common mode voltage <b>CMRR</b> >50 dB, typically 80 dB (50 Hz – 500 Hz) <b>RF Filter</b> Common mode: 425 kHz; Differential mode: 142 kHz <b>TIM Filter</b> Integral to signal processing (<80 kHz) <b>Nominal Input Sensitivity</b> 0.0 dBV (1.0 V rms) continuous is typically the onset of limiting for noise and music <b>Input Level</b> Audio source must be capable of producing +20 dBV (10 V rms, 14 V peak) into 600 oms to produce the maximum peak SPL over the operating bandwidth of the loudspeaker																								
<b>AMPLIFIER</b>	<b>Type</b> 3-channel, class D <b>THD, IM, TIM</b> <.02% <b>Cooling</b> Convection																								
<b>AC POWER</b>	<b>Connectors</b> powerCON 20 with loop output <b>Safety Rated Voltage Range</b> 100–240 V AC, 50–60 Hz <b>Turn-on/off Points</b> 90 V AC turn-on, no turn-off; internal fuse-protection above 265 V AC <table border="1"> <tr> <td></td> <td><b>115 V AC</b></td> <td><b>230 V AC</b></td> <td><b>100 V AC</b></td> </tr> <tr> <td><b>Current Draw: Idle</b></td> <td>0.26 A rms</td> <td>0.25 A rms</td> <td>0.28 A rms</td> </tr> <tr> <td><b>Maximum Long-Term Continuous (&gt;10 sec)</b></td> <td>1.8 A rms</td> <td>1.1 A rms</td> <td>2.6 A rms</td> </tr> <tr> <td><b>Burst (&lt;1 sec)<sup>6</sup></b></td> <td>3.5 A rms</td> <td>1.8 A rms</td> <td>4.2 A rms</td> </tr> <tr> <td><b>Maximum Instantaneous Peak</b></td> <td>16 A peak</td> <td>8 A peak</td> <td>18 A peak</td> </tr> <tr> <td><b>Inrush</b></td> <td>17 A peak</td> <td>20 A peak</td> <td>15 A peak</td> </tr> </table>		<b>115 V AC</b>	<b>230 V AC</b>	<b>100 V AC</b>	<b>Current Draw: Idle</b>	0.26 A rms	0.25 A rms	0.28 A rms	<b>Maximum Long-Term Continuous (&gt;10 sec)</b>	1.8 A rms	1.1 A rms	2.6 A rms	<b>Burst (&lt;1 sec)<sup>6</sup></b>	3.5 A rms	1.8 A rms	4.2 A rms	<b>Maximum Instantaneous Peak</b>	16 A peak	8 A peak	18 A peak	<b>Inrush</b>	17 A peak	20 A peak	15 A peak
	<b>115 V AC</b>	<b>230 V AC</b>	<b>100 V AC</b>																						
<b>Current Draw: Idle</b>	0.26 A rms	0.25 A rms	0.28 A rms																						
<b>Maximum Long-Term Continuous (&gt;10 sec)</b>	1.8 A rms	1.1 A rms	2.6 A rms																						
<b>Burst (&lt;1 sec)<sup>6</sup></b>	3.5 A rms	1.8 A rms	4.2 A rms																						
<b>Maximum Instantaneous Peak</b>	16 A peak	8 A peak	18 A peak																						
<b>Inrush</b>	17 A peak	20 A peak	15 A peak																						
<b>RMS NETWORK (OPTIONAL)</b>	Equipped with 2-conductor, twisted-pair network, reporting all amplifier operating parameters to host computer																								

### NOTES:

1. Recommended maximum operating frequency range. Response depends on loading conditions and room acoustics.
2. Half-space loading, measured with 1/3-octave frequency resolution at 4 meters.
3. At this frequency, the transducers produce equal sound pressure levels.
4. Audio connectors available as XLR 5-pin or XLR 3-pin. XLR 5-pin connectors accommodate both balanced audio and RMS signals.
5. Pins 4 and 5 (RMS) included only with XLR 5-pin connectors.
6. AC power cabling must be of sufficient gauge so that under burst current rms conditions, cable transmission losses do not cause the loudspeaker's voltage to drop below the specified operating range.



MJF-210 — 04.235.004.02 B3

Copyright © 2013, 2015  
Meyer Sound Laboratories Inc.  
All rights reserved

**MEYER SOUND LABORATORIES INC.**  
2832 San Pablo Avenue  
Berkeley, CA 94702

+1 510 486.1166

techsupport@meyersound.com  
www.meyersound.com

## ARCHITECT SPECIFICATIONS

The loudspeaker shall be a self-powered stage monitor; its transducers shall include two 10-inch cone drivers and one 4-inch diaphragm compression driver on a 50-degree x 70-degree horn. The loudspeaker shall incorporate internal processing electronics and a 3-channel amplifier, one channel for each driver. Processing functions shall include equalization, phase correction, signal division, and protection for the low- and high-frequency sections. The crossover point shall be 830 Hz.

Amplifier channels shall be class D. Distortion (THD, IM, TIM) shall not exceed 0.02%.

Performance specifications for a typical production unit shall be as follows, measured at 1/3-octave resolution: operating frequency range, 55 Hz to 18 kHz; phase response, 200 Hz to 16 kHz ±45 degrees. Coverage shall

be 50 degrees horizontal by 70 degrees vertical.

The audio input shall be electronically balanced with a 10 kOhm impedance and accept a nominal 0 dBV (1.0 V rms) signal. Audio connectors shall be XLR 3-pin, female and male, accommodating balanced audio, or XLR 5-pin, accommodating both balanced audio and RMS. RF filtering shall be provided, and CMRR shall be greater than 80 dB from 50 Hz to 500 Hz.

The internal power supply shall perform automatic voltage selection, EMI filtering, soft current turn-on, and surge suppression. Power requirements shall be nominal 100, 110, or 230 V AC line current at 50–60 Hz. UL and CE operating voltage range shall be 100–240 V AC at 50–60 Hz. Maximum instantaneous peak current draw shall be 15.8 A peak at 115 V AC, 7.9 A peak at 230 V AC, and 18.2 A peak at 100 V AC. Current inrush during soft

turn-on shall not exceed 16.8 A peak at 115 V AC. AC power connectors shall be powerCON 20 with loop output.

The loudspeaker shall optionally include the RMS remote monitoring system module.

Loudspeaker components shall be mounted in an acoustically-vented, wedge-shaped enclosure constructed of premium birch plywood with a black-textured, hard-shell finish. The protective grille shall be hex stamped steel with black mesh screen. Dimensions shall be 23.18 inches wide x 13.89 inches high x 20.90 inches deep (589 mm x 353 mm x 531 mm). Weight shall be 67 lbs (30.4 kg). The enclosure's front angle shall be 35 degrees.

The loudspeaker shall be the Meyer Sound MJF-210.