

# SCHOLAR Model 118

## Road Version

The SCHOLAR Model 118 is one of the finest subwoofers available for sound reinforcement applications. It is intended to enhance the performance of full-range loudspeaker systems by providing maximum low-frequency impact. Its single 18-inch woofer is rated to handle 600-watts RMS. Sonic integrity, high SPL output, moderate size, and application flexibility make the Model 118 unique among subwoofers. From the lowest to the highest sound pressure levels, the Model 118's design provides unparalleled bass articulation and musicality. Effective when used in single-cabinet applications, the Model 118's performance excels when used in a multi-cabinet array configuration. Due to its innovative enclosure geometry multiple cabinets couple very effectively, resulting in excellent bass definition and room-pressurizing effect.

The term SCHOLAR is MacPherson's acronym for **Self-Cornering-HORn Line ARray**, describing the Model 118's unique deployment characteristics. When arrayed in a self-cornering vertical line array, the result is optimum low-frequency summation and directivity control. With a SCHOLAR array, a veritable "acoustic corner" of low-frequency output is created. In this way multiple cabinets take advantage of their own band-specific eighth-space loading.

The Model 118 utilizes a band-pass design with critically damped tuning to achieve numerous performance advantages. Unlike most subwoofers that require extensive electronic manipulation, the Model 118 does not require any special processing. Only the standard high-pass and low-pass functions provided by an electronic crossover are required for optimal reproduction.

- Features**
- Excellent in array configurations
  - Highly musical reproduction
  - Minimal unwanted artifacts
  - Good handling characteristics
  - Integral pole-mounting cups
  - Available dollyboard and cover



How does the SCHOLAR Model 118 sound? Rather than modifying or exaggerating the source material, the Model 118 faithfully reproduces only the intended low-frequency slice of the audio spectrum. Unwanted content, primarily cone distortion, is trapped by the acoustic properties inherent in the enclosure's design. The result is nothing short of stunning—room pressurizing, highly defined low-frequency impact. When first experiencing the Model 118, the absence of the distortion associated with most other subwoofers is immediately apparent—the Model 118 simply doesn't have the typical "sub" sound. The magic of the Model 118's performance becomes even more evident when it is used as part of a complete reinforcement system. Then the articulate low-frequency output plays its part in a properly implemented full-bandwidth system.

A natural question arises as to how one Model 118 will compare to a high-quality direct-radiating dual 18-inch subwoofer. In some cases, one Model 118 may not produce as much apparent SPL as a dual 18-inch design. When compared one-on-one using only low-frequency content it may not seem as "loud." But in many cases the difference can be misleading, as the distortion inherent in direct-radiating systems is often perceived as loudness. But this is type of perceived loudness is

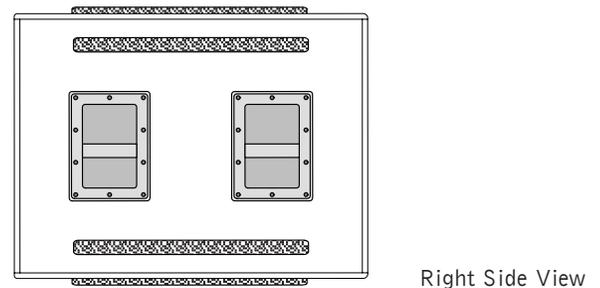
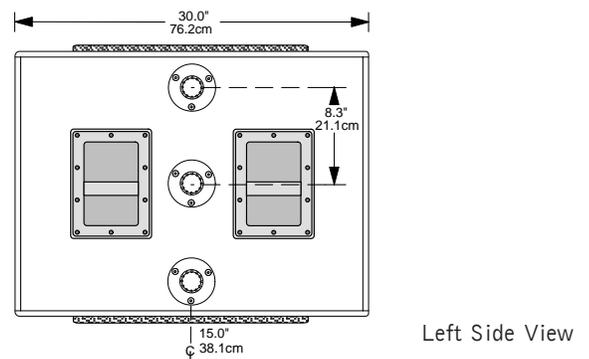
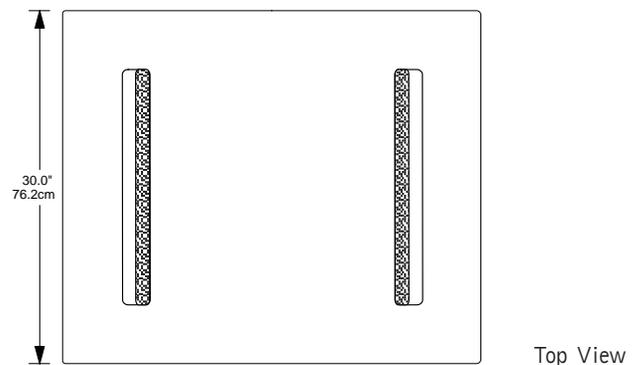
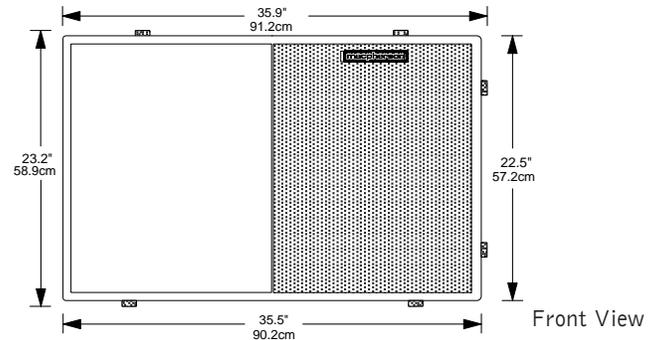
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certainly unwelcome! When combined with full-range cabinets, as in a normal listening environment, the Model 118's effective loudness becomes very prominent. Thanks to the highly efficient coupling in the recommended SCHOLAR configuration, two Model 118's will completely dominate one dual 18-inch subwoofer. In fact, they will often outperform two dual 18-inch subwoofers as well. But raw SPL is only part of the story, the real strength of the Model 118 is its sonic excellence. The result is impressive—dynamic, accurate, and musical.

The Model 118 Road Version has many features specifically selected for touring and portable use. Six heavy-duty thermoplastic skid rails are incorporated into the cabinet design. They serve important physical as well as acoustic roles. On a most basic level, the rails provide protection for the cabinet's epoxy finish. They also mechanically interlock neighboring cabinets when used in an array configuration or during transport. Acoustically, the skid rails provide a high-impedance interface between each cabinet and adjacent surfaces. This works to maintain the energy within the Model 118's enclosure, helping to preserve the character and accuracy of the reproduced signal.

The physical dimensions of the Model 118 were carefully selected to maximize usefulness. With an overall height of just over 23 inches, cabinets can be used under standard 24-inch high portable staging systems. While no large format subwoofer can be considered "easy" to transport, the Model 118 goes a long way toward reaching that goal. Weighing in at just over 160 pounds, and with two handles per side, two crew members can easily maneuver a cabinet. When a Model 118 is used in the vertical orientation, three integral pole-mounting cups allow full-range cabinets to be supported. The locations of the outer two pole cups were selected specifically to allow support of a MacPherson Monolith loudspeaker. An optional dollyboard and cover is available, allowing two Model 118 cabinets to be transported and stored.



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### SCHOLAR Model 118 Road Version Specifications

**Standard Configuration**

Model 118-RD

**Frequency Response**

±3dB, 30Hz to 120Hz

**Recommended Crossover Points**

30Hz high-pass, 80Hz low-pass, 24dB per octave

**Nominal Impedance**

8 ohms

**Sensitivity**

98dB, one watt, one meter

**Maximum SPL**

126dB, broadband, one meter, one minute

**Recommended Amplifier Power**

600 watts RMS into 8 ohms

**Connectors**

Two, Neutrik NL4

**Pole Mounting**

Three, cast-aluminum mounting cup, accepts 1.5-inch diameter pole

**Enclosure**

Hardwood plywood, textured black epoxy finish, four flush-mounted steel handles, powder-coated perforated steel grill with open-cell foam backing

**Dimensions - Overall (includes skid rails on three surfaces)**

23.2 inches high (58.9cm)

35.9 inches wide (91.2cm)

30.0 inches deep (76.2cm)

**Weight**

163 pounds (74.1kg)

**Accessories**

Dollyboard and cover to hold, secure, and transport two Model 118 subwoofers

**Warranty**

Three years from date of original purchase

Contents subject to change without notice. Dimensions provided for general reference only.



Two Model 118 Road Version Subwoofers in a SCHOLAR Configuration