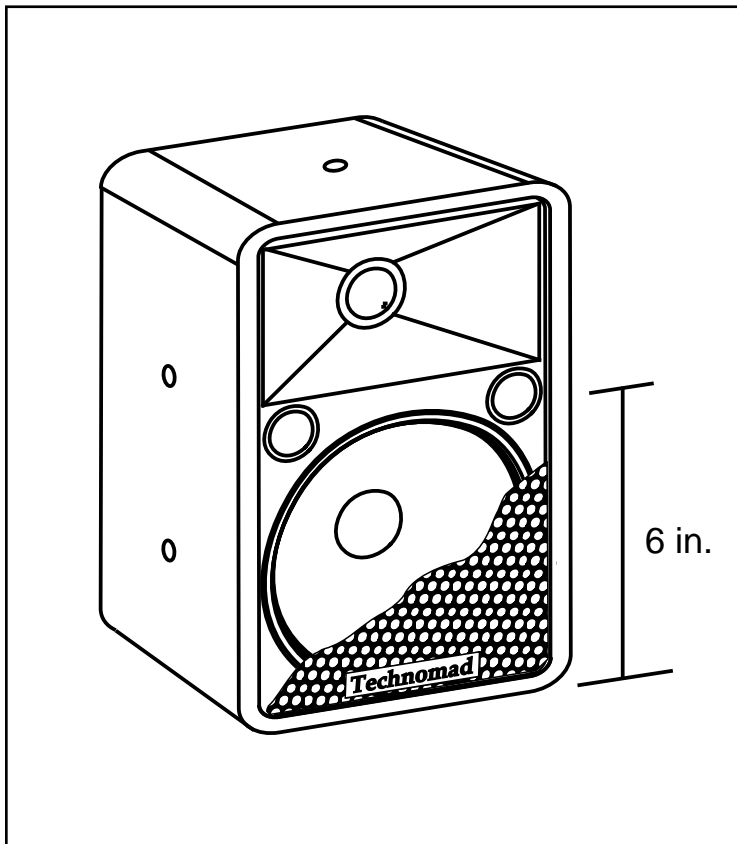


# The Vernal 15

MP Series

Ultra-Compact Weather Resistant, 2-Way Full-Range Loudspeaker System.



## Features

- Compact, ruggedized Mil-Spec 810E cabinet
- High-SPL, horn-loaded HF performance
- Weather and environment resistant drivers and electronics
- One-piece, 3/8" thick molded shell -no finishes to crack or chip
- 10 year cabinet, 5 year hardware, 2 year electronics warranty
- 1/4-20 T-Nut flypoints, all sides
- Two rear 1/4-20 T-Nuts for OmniMount™ 25
- Three Layer, Chemically Treated WeatherTech™ grill
- Thirteen (13) optional cabinet colors

## Applications

- High-output distributed sound systems
- Ultra-compact mobile sound
- Under-balcony and delay fills
- Amusement parks
- Aquatic facilities
- Seaside and ski resorts
- Casinos
- City, state and national parks
- Cruise ships, Yachts, Casino & Tour Boats
- Stadiums and Arenas
- Outdoor theaters
- Broadcast remotes
- Ice Skating Rinks
- Indoor Pools
- Military simulations, training, and other government uses

The Vernal 15 is a very small loudspeaker designed to be used in abusive, real-world situations- year-round, indoors or out - without fear of water, salt, sand, insects, temperature, mold, mildew, chemicals, condensation, or other sources of damage.

The Vernal 15 is the perfect loudspeaker for any application where ultra-compact size and powerful full-spectrum sound is required.

The Vernal 15 is designed for maximum flexibility and ease of use. Developed with contractors' needs in mind, the Vernal 15 incorporates a wide range of mounting fittings. Rated 1/4-20 T-Nut inserts on each side allow easy suspension. The Vernal 15 is OmniMount™ 25 Series compatible via two 1/4-20 inserts on the back of the loudspeaker.

The Vernal 15 is extremely weather resistant. Custom-designed rubber-surround polypropylene mid/bass drivers are treated with proprietary low-

residue coatings for long, reliable service. The 1" diameter high-frequency compression driver offers excellent performance in even the most severe weather conditions. A three-layer chemically treated grill system offers unmatched environmental resistance.

Only the highest-quality components are used in Technomad crossover networks. Metalized polypropylene capacitors and heavy gauge inductors minimize insertion loss and result in smooth response throughout the operating bandwidth.

The Vernal 15 features a true horn-loaded HF section, resulting in much better throw and vocal intelligibility in high-ambient noise environments.

**Technomad**  
THE TOUGHEST LOUSPEAKERS IN THE WORLD

1112 Boylston St., Suite 302 Boston MA 02115 USA  
email: [info@technomad.com](mailto:info@technomad.com)  
www: <http://www.technomad.com>  
phone: 800.464.7757 fax: 617 424 8233

# Specifications

## Vernal 15

### Audio Specifications

Frequency Response (+/- 2 dB)	100Hz-18kHz
Maximum Continuous Power <sup>1</sup>	60 watts
Maximum Peak Power <sup>1</sup>	120 watts
Recommended Amplifier Power*	70 watts
Sensitivity (swept sine wave)**	91 dB SPL (800Hz-10K)
Maximum Output (long term) <sup>1</sup>	96 dB
Maximum Output (peak)	100 dB
HF Dispersion	90° V x 90° H
Nominal Impedance	4 ohms

### Signal Chain

HF	1" Horn Loaded Ceramic Driver
LF	5.0" Polypropylene Driver
Connectors	2x terminal blocks, rear mounted (two parallel connector sets)
Crossover	Passive Internal
70-Volt (option)	10, 16, 30, 43 watt switchable taps

1 Based on EIA test RS-426A, pink noise used as test source

\* Maximum continuous program

\*\* Axial 1W@1M

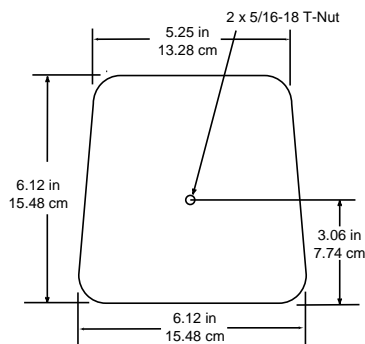
\*\*\* Axial 1W@1M full spectrum input, averaged 100 Hz-10 kHz

### Physical Specifications

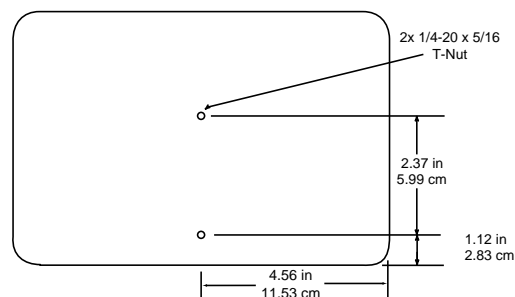
Height	9.1"	23.0cm
Width	6.1"	15.4 cm
Depth	6.1"	15.40 cm
Weight	8.5 lb	3.86 kg
Shipping Weight	10 lb	4.54 kg
Fittings	6 x 1/4-20 inserts (2 per side, 1 ea. end) 2 x 1/4-20 on back for OmniMount25™	

Cabinet  
Grill

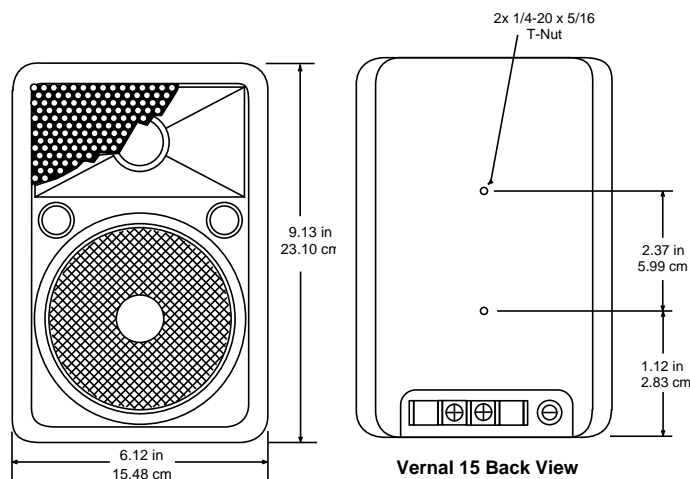
Mid-density Polyethylene  
Three-Layer Chemically-Treated  
Weather Tech™ (Black standard)



Vernal 15 End View



Vernal 15 Side View



Vernal 15 Front View

Vernal 15 Back View

### Architectural and Engineering Specifications

The loudspeaker system shall be of two-way type consisting of a 5" low frequency cone type transducer in a ported direct-radiating enclosure and a horn-mounted 1" ceramic driver.

The system shall meet the following performance criteria:  
Frequency Response: 100Hz - 18 kHz. Power Handling: 60W. Rated Impedance shall be 4 ohms. High frequency dispersion shall be 90° H x 90° V. The loudspeaker shall have an optional 70-volt transformer, with power taps selected by a rotary switch. The system shall include an internal passive crossover network, providing full-range operation via a screw-terminal block. The cabinet shall be molded from mid-density polyethylene. All cab-

inet dyes shall be non-heavy metal based. The cabinet shall have a 10 year warranty.

The system shall have two 1/4-20 flypoint inserts per side, and one additional 1/4-20 insert on each end for yoke mounting. The system shall also have two 1/4-20 flypoint inserts on the back of the cabinet to allow attachment of an OmniMount™ 25 bracket.

All drivers shall be protected by a three-layer chemically treated grill system. Cabinet drainage shall be provided by bleed holes.

The loudspeaker system shall be the Technomad Vernal 15.

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