

# DATA SHEET

## COMMUNITY R SERIES



# R.15-3696

## THREE-WAY FULL-RANGE WEATHER RESISTANT LOUDSPEAKER



### FEATURES

- Excellent musicality and intelligibility, and low distortion in an extremely compact enclosure
- High sensitivity and low amplifier power draw reduces total system costs
- Weather-resistant, compact, matte finish paintable high impact ABS plastic modified-trapezoidal enclosure
- Water-resistant grille and LF driver cone, polymer HF and MR diaphragm, moisture-sealed crossover
- 100W Autoformer (standard), selectable 4 ohm or 70V/100V operation
- Corrosion-resistant zinc-plated, powder-coated low-profile steel yoke and grille

### TECHNICAL SPECIFICATIONS<sup>1</sup>

|   |  |                      |                           |
|---|--|----------------------|---------------------------|
| Operating Mode                                | Passive, Selectable Low Impedance or 70V/100V  |                      |                           |
| Operating Environment                         | Indoor or Weather-Resistant Outdoor  |                      |                           |
| Operating Range                               | 140 Hz to 19.5 kHz   |                      |                           |
| Nominal Beamwidth (H x V)                     | 100° x 80°   |                      |                           |
| Transducers                                   | LF 1 x 6.5" (165 mm) Woofer with hydrophobic treatment<br>MR 2 x 2.35" (60 mm) MultiSource Waveguide™ compression drivers<br>HF 1 x 1" (25 mm) exit polymer diaphragm compression driver |                      |                           |
| Continuous Power Handling @ Nominal Impedance | Passive  | 26.0 dBV             | 100W @ 4 Ohms (800W peak) |
| Autoformer Taps                               | 70V: 100W, 50W, 25W, 12.5W<br>100V: 100W, 50W, 25W   |                      |                           |
| Nominal Sensitivity                           | Passive  | @ 1W @ 1 m<br>100 dB | @ 2.83V @ 1 m<br>103 dB   |
| Nominal Maximum SPL (Whole Space)             | Passive  | Peak<br>132 dB       | Continuous<br>120 dB      |

### APPLICATIONS

Theme and Amusement Parks · Malls · Stadiums Fairgrounds · Outdoor Entertainment Centers · Swimming Pools · Background Music · Voice Paging Systems · Convention Centers · Factories · Multipurpose Outdoor and Indoor Venues

### DESCRIPTION

The R.15-3696 is a fully horn-loaded triaxial three-way, full-range loudspeaker system designed to provide high quality voice and music reproduction in applications requiring extreme weather resistance.

It is designed to withstand long-term exposure to tough, environmental conditions and to provide musical performance normally only associated with indoor loudspeakers. The R.15-3696 features Biamp's innovative MultiSource Waveguide™ horn design; the output from the dual midrange compression drivers and 1-inch exit HF driver are combined seamlessly into a single time-coherent source, resulting in excellent musicality, intelligibility and dispersion consistency. The high efficiency 6.5-inch LF provides high sensitivity and full LF extension into the male voice speech range. The low LF/MR passive crossover point results in improved mid-range pattern control and elimination of horn coloration in the LF response.

The R.15-3696 is built using components engineered for the harshest environments, including heavily plated and powder coated internal components, conformal coated crossover components, water-resistant driver, and IP54 ingress protection for the grille. The steel bracket is heavily zinc-plated and powder coated and attached using stainless steel and brass hardware.

The R.15-3696 carries a 5-year product warranty and a 15-year enclosure warranty.

### PHYSICAL

|                           |  |  |  |
|---------------------------|--|--|--|
| Input Connection          | Terminal Strip for low impedance or constant voltage operation   |  |  |
| Controls                  | 70V/100V operation jumper  |  |  |
| Mounting Points           | Four (4) M8 rigging points   |  |  |
| Included Accessories      | Thick zinc-plated, powder coated matching color steel u-bracket, water-tight input cover plate with gland nut  |  |  |
| Environmental             | IP54 per IEC 529, IEC 60068-2-5 (Solar Radiation)<br>IEC 60068-2-11 (Salt Mist)<br>IEC 60068-2-42 (SO2)<br>IEC 60068-2-60 (Chlorine)<br>IEC 60068-2-1 (Cold operational) |  |  |
| Dimensions H x W x D      | 9.25" x 9.25" x 14.00" (235 x 235 x 356 mm)  |  |  |
| Weight (loudspeaker only) | 12.6 lbs (5.7 kg)  |  |  |
| Finish                    | Grey matte, paintable high-impact ABS  |  |  |

### OPTIONS

|             |   |
|-------------|---|
| Accessories | PMB-1RR and PMB-2RR (Pole Mount Bracket Kits) |
|-------------|---|

<sup>1</sup> Biamp strives to improve its products on a continual basis. Specifications are therefore subject to change without notice.



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## R.15-3696

THREE-WAY FULL-RANGE WEATHER RESISTANT LOUDSPEAKER

### TECHNICAL DRAWING / DIMENSIONS / FINISH

**H x W x D (Loudspeaker)**  
8.69" x 8.69" x 13.52"  
(221 x 221 x 343 mm)

**Unit Weight**

12.57 lbs (5.7kg) (Loudspeaker only)  
15.2 lbs (6.9 kg) (Loudspeaker + U-Bracket)

**Shipping Weight**

TBD

**U-Bracket:**

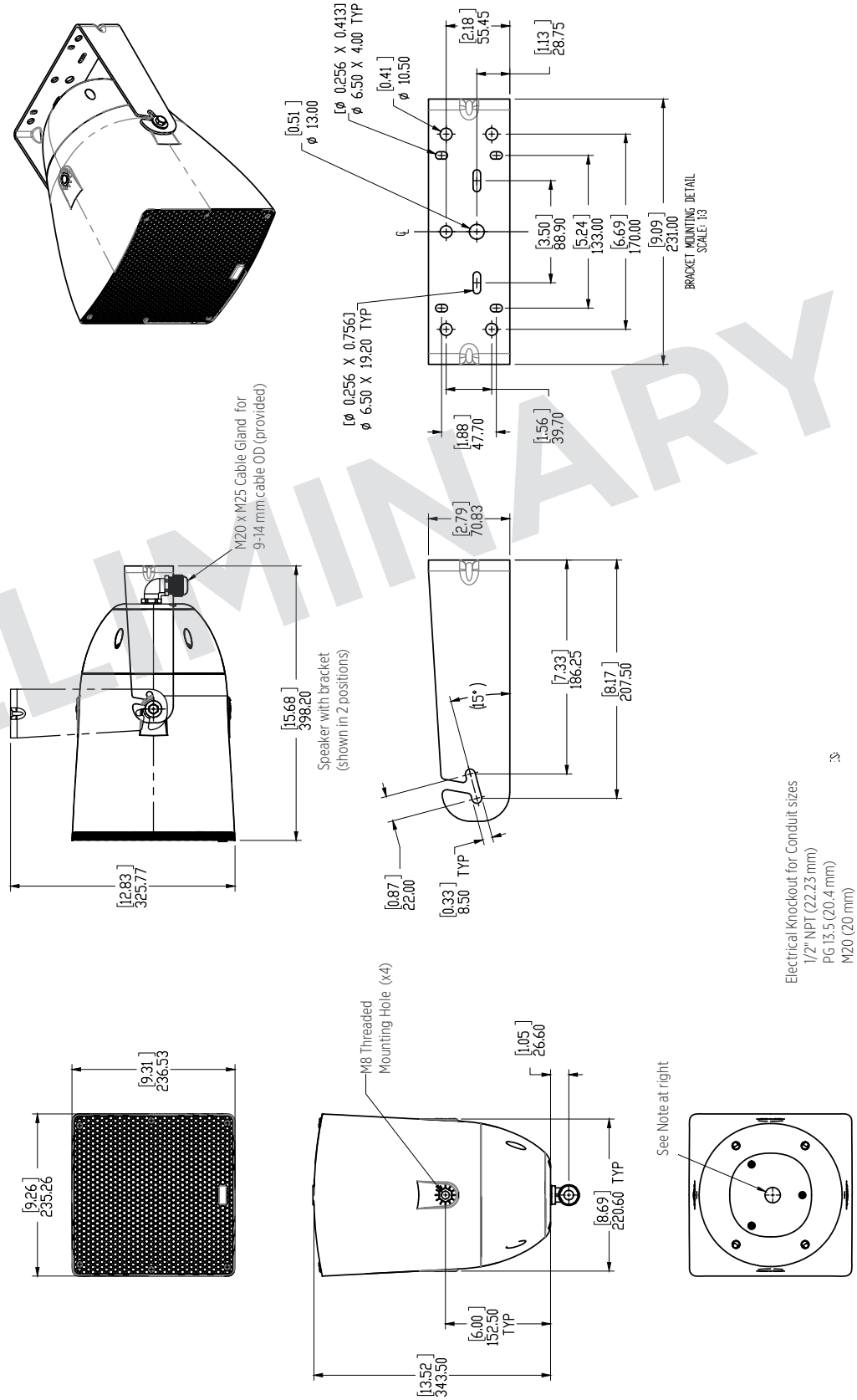
Heavily zinc plated with polyester powder coat finish. Grey (RAL#7038)

**Grille:**

Heavily zinc plated with polyester powder coat finish. Grey (RAL#7038)

**Enclosure / Finish**

Grey, matte paintable high-impact ABS



Electrical Knockout for Conduit sizes  
1/2" NPT (22.23 mm)  
PG 13.5 (20.4 mm)  
M20 (20 mm)

See Note at right

