

# PTA6002-R TIME-ALIGN®

SELF-POWERED

## APPLICATIONS

Portable Sound Reinforcement      Drum Monitor  
Portable DJ Systems                  Electronic Keyboards  
Theatrical Sound Reinforcement

## DESCRIPTION

The PTA6002-R is a self-powered Minima 3™ loudspeaker which produces high definition, high impact sound over its wide angle making audience coverage easy and effective in a variety of venues. A compact loudspeaker, engineered for exceptional mid field and near field performance it is well known for exceptional fidelity and its surprisingly high output capability.

Useful for foreground and background music applications, it also excels for speech projection and small PA systems. With its fidelity, size and output its perfect for multi channel 5.1 presentations systems. In larger audio systems the PTA6002-R is highly effective as a fill, delay or under balcony speaker. The addition of a Bag End subwoofer will expand its capabilities for more demanding applications. Internal stand mount adapter and multiple fly points make the PTA6002-R convenient and flexible choice a multitude of portable or permanent applications.



## SPECIFICATIONS

### System Type:

2-way vented 0.6 ft<sup>3</sup>

### Enclosure:

15 mm 11-ply birch plywood

### Finish:

Black Ro Tex™ true water born environmental finish

### Grille:

16 Gauge black powder coated perforated steel

### Low Frequency Components:

2 - E-6A 6.5" Drivers, 1.5" Voice coil, 30 oz Magnet

### High Frequency Components:

E-700 1" Exit compression driver, 1.8" Titanium diaphragm, 15 oz Magnet, Radial waveguide

### Input Connector:

XLR 1/4" combo with XLR loop through

### Internal Amplification:

Minima 3™

### Input Impedance:

48K ohms

### Input CAL Sensitivity:

+4 dBu

### Maximum Continuous Amplifier Power:

300 W

### High Pass Filter:

Switchable: -6 dB @ 8 Hz; @ 50 Hz; @ 95 Hz

### Overload Protection:

Internal limiter

### LED Indicators:

Green - On  
Yellow - System limit

### Mains Voltage Requirements:

Auto sensing  
100 / 120 / 240 V

### Mains Current Requirements:

1.6 A @ 120 V  
0.8 A @ 240 V

### Hardware:

35 mm Stand adapter  
Fly points  
Optional steel yoke model TAGI

### Fly Points Safe Working Load:

100 lbs Upper most rigging points

### Crossover Type:

Passive Time-Align® equalizer type @ 2.1 kHz

### Time Offset Between Driver:

< ± 25 Microseconds

### Frequency Response:

95 Hz to 20 kHz ±3 dB

### Low Frequency Limit:

80 Hz

### Maximum Calculated Continuous Acoustic Output:

127 dB SPL @ 1 m

### Coverage Pattern:

80 degrees horizontal (-6 dB)  
60 degrees vertical (-6 dB)  
Rotatable horn

### Polarity:

A positive asymmetrical signal applied to pin 2 will result in a positive asymmetrical acoustical pressure

### Dimensions:

22.5" h x 9" w x 11" d  
58 cm x 23 cm x 28 cm  
Trapezoidal - 10 degree taper per side

### Weight:

27 lbs  
13 kg

### Custom Finishes:

Optional custom finishes include white or unfinished ready to paint.

TIME-ALIGN®, TIME-ALIGNED™ and TIME-ALIGNMENT™ are trademarks of E.M. Long Associates.  
MINIMA 3™ is a trademark of Modular Sound Systems, Inc., BAG END® is a registered trademark of Bag End, Inc.

# PTA6002-R TIME-ALIGN®

## ABOUT TIME-ALIGN® TECHNOLOGY

Time-Align® assures that the fundamental and overtones of a complex, transient, acoustical signal are presented to the listener in the same relationship as the electrical signal at the input terminals of the loudspeaker. The conventional loudspeaker spreads out the sound in time. When a rapid series of transients occur the results are blurring and lost detail. With Time-Align®, a transient is presented as a tight package of energy, with the same time relationships as the natural sound. This means that a rapid series of transients will be heard clearly.



True Time-Alignment™ requires much more than just physically lining up the loudspeaker components. It requires consideration of the driver placement, driver delay and adjustment of the crossover delay parameters. This achieves the precise simultaneous acoustical arrival time of each driver throughout the crossover region.

The first Time-Aligned™ Loudspeaker was invented by EM Long Associates in 1976 utilizing the Time-Align® generator invented and built by Ronald Wickersham. In 1980 Bag End® incorporated Time-Align® technology into our full range loudspeaker systems. Along with state-of-the-art laboratory instruments, the proprietary Time-Align® generator is still in use today to verify the time domain performance of our loudspeaker systems. When comparing a genuine Bag End® Time-Aligned™ loudspeaker system to any other, our technology and design is easy to hear and appreciate. The dramatic clarity, realism, and overall pleasant sound of our Time-Aligned™ systems are well noted worldwide.

## ABOUT MINIMA 3™ SELF POWERED

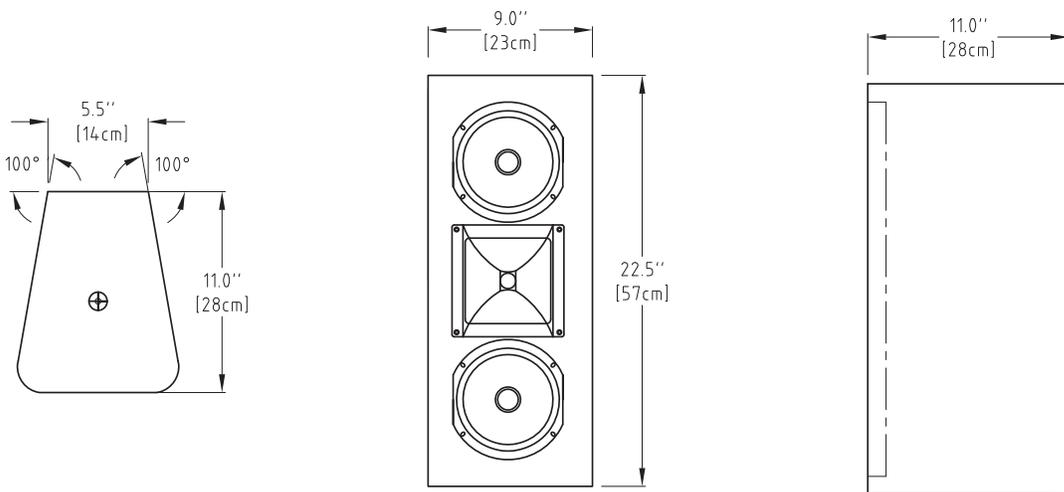
The Minima 3™ amplifier is both a high fidelity and a high efficiency amplifier. With efficiency well over 80%, it provides more power to the loudspeakers, and creates less heat in the amplifier. In real world applications there

is practically no heat emitted from the amplifier and thus it requires no cooling fan. The universal AC power input automatically accepts 100, 120 or 240 volts allowing it to operate anywhere in the world.

## ABOUT BAG END® LOUSPEAKERS

Bag End loudspeakers began in 1976 in a small shop by people dedicated to the pursuit of making high quality loudspeaker systems. Over the decades Bag End® has employed the very best construction techniques and innovative acoustical designs into their products. The ground breaking introductions of the Time-Align® and ELF™ Technologies into sound reinforcement and studio monitor loudspeakers in the 1980's was followed by Minima One™ self-powered systems and the highly unique E-Trap™, electronic bass trap. Over the decades, Bag End® has been a leader in providing uniquely good sounding products and extraordinary service to our customers world wide.

## DIMENSIONS



⊕ = Center of Gravity    ○ = 5/16" -18 Threaded Rigging Point

