

## Specifications

	<b>PTM/One</b>	<b>PTM/Two</b>	<b>PTM/Three</b>
<b>Maximum Output @ 1 meter</b>	120dB with 400w	120dB with 400w	120dB with 400w
<b>Recommended Room Size</b>	Up to 9,000 ft <sup>3</sup>	Up to 9,000 ft <sup>3</sup>	up to 9,000 ft <sup>3</sup>
<b>Close-Miked Near-Field Response (±3dB)</b>	65-20,000 Hz	65-20,000 Hz	55-20,000 Hz
<b>6dB Downpoint</b>	60 Hz	60 Hz	50 Hz
<b>Nominal Coverage Angle (-6dB from reference)</b>	60° H, 30° V	60° H, 30° V	60° H, 30° V
<b>Sensitivity [1 watt (2.83v) @ 1m]</b>	92dB	92dB	93dB
<b>Nominal Impedance</b>	8 ohm	8 ohm	8 ohm
<b>Tweeter</b>	Cabinet: 1" soft-dome ring-radiator In-wall: 1" soft-dome	Cabinet: 1" scanspeak in reverse horn In-wall: 1" scanspeak	1" scanspeak in reverse horn
<b>Bass Units</b>	6?" long throw with polymer cone, butyl surround, shorting cylinder	Time-aligned 6?" long throw with polymer cone, butyl surround, shorting cylinder, cast basket	Time-aligned 8" long throw with polymer cone, butyl surround, shorting cylinder, cast basket
<b>Construction</b>	Cabinet: Black painted ash veneer on 1" MDF, four-sided bracing  In-wall: Extruded aluminum frame, 1" MDF baffle, floating grille	Cabinet: Black painted ash veneer on 1" MDF, four-sided bracing, 1" Corian time-aligned baffle  In-wall: Extruded aluminum frame, MDF baffle, floating grille	Black painted ash veneer on 1" MDF, four-sided bracing, 1" Corian time-aligned baffle
<b>Weight</b>	Cabinet: 50 lbs In-wall: 14 lbs	Cabinet: 60 lbs In-wall: 18 lbs	80 lbs.
<b>Dimensions</b>	Cabinet: 21 <sup>5</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub> x 11 <sup>7</sup> / <sub>8</sub> " (12 <sup>7</sup> / <sub>8</sub> " with grilles) In-wall: 20 <sup>3</sup> / <sub>8</sub> x 9 <sup>3</sup> / <sub>8</sub> ", 3 <sup>1</sup> / <sub>2</sub> " deep	Cabinet: 21 <sup>5</sup> / <sub>8</sub> x 8 <sup>3</sup> / <sub>8</sub> x 12 <sup>7</sup> / <sub>8</sub> " (13 <sup>7</sup> / <sub>8</sub> " with grilles) In-wall: 20 <sup>3</sup> / <sub>8</sub> x 9 <sup>3</sup> / <sub>8</sub> ", 3 <sup>1</sup> / <sub>2</sub> " deep	27 x 11 <sup>1</sup> / <sub>4</sub> x 15" (16" with grilles)

	<b>Impact Sub</b>	<b>Rumble Sub</b>
<b>Maximum Output @ 1 meter</b>	120dB with 500w PowerPack	120dB with 500w PowerPack
<b>Recommended Room Size</b>	Up to 9,000 ft <sup>3</sup>	Up to 9,000 ft <sup>3</sup>
<b>Close-Miked Near-Field Response (±3dB)</b>	35-120 Hz	17-30 Hz
<b>6dB Downpoint</b>	30 Hz	14 Hz
<b>Bass Unit</b>	12" long throw with polymer cone, butyl surround	15" long throw with polymer cone, butyl surround
<b>Construction</b>	Cabinet: Black painted ash veneer on 1" MDF, four-sided bracing, front port	Cabinet: Black painted ash veneer on 1" MDF, four-sided bracing
<b>Weight</b>	70 lbs	90 lbs
<b>Dimensions</b>	17 x 15 x 16" (17" with grilles)	26 x 22 x 28" (29" with grilles)

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# PTM

## PTM theater speaker systems



### Description

PTM speakers represent an intelligent approach to high-impact theaters. Through Bay Audio Design Services, our engineers will configure an optimized PTM system for your theater. We will choose from standard and custom-built PTM solutions for maximum impact and coverage. As part of our Design Services, we can travel to your home and tune your PTM theater system for unparalleled performance.

### Performance Characteristics

We've split the audio spectrum into three zones: staging, the impact zone, and the rumble zone. We've developed PTM speakers specifically for each zone, with a resulting performance level unmatched in its class.

#### Staging

We offer three levels of performance for staging — the zone responsible for dialog and music. The PTM/One is ideal for everyday theaters in modest sized rooms. The PTM/Two, with its time-aligned Corian baffle, is designed for a higher level of performance. And the larger PTM/Three is perfect for full-sized home theaters.

#### Impact Zone

Frequencies in the upper bass and mid-bass are responsible for the feeling of impact. Our Impact Sub is fast, tight, and responsive, for added excitement without fatigue.

#### Rumble Zone

Movies rely on deep, percussive bass with on-screen effects. Our Rumble Sub, dedicated to the lowest frequencies, effortlessly reproduces deep soundtrack effects.

# Staging .....



PTM/Three speakers hidden behind acoustic fabric on the front wall.

## The Goal Of Vocal Clarity.

The truest test of any theater is its ability to reproduce dialog, especially the subtle nuances that give life to a great performance. We pay particular attention to the critical area between 135 and 2,500 Hz, where the bulk of dialog resides. Frequencies from 135 to 400 Hz represent fundamental tones for speech. Getting these frequencies right gives

“body” to the voice. Frequencies from 1,800 to 2,500 Hz represent the range where consonants lie. Research shows how speech intelligibility drops quickly when over 5% of an actor’s consonants are lost due to distortion (reverberance, masking noises, echoes).

This is why we engineered PTM Satellites with less than one half percent of distortion throughout the critical vocal range.

Not a simple feat.

First, we limit spurious reflections from the floor and ceiling with focused vertical dispersion. Reflections create a blurring of the sound.

Next, we use custom-designed bass units in a vertical array for high-volume playback without strain. We pair these with a high power-handling tweeter for superb upper-end detail.

The PTM/Two and PTM/Three are time-aligned, with a stepped Corian baffle. Time-aligning the bass units with the tweeter enhances phase response and clarity. The proprietary reverse horn configuration on these two speakers also helps focus vertical dispersion for cleaner response off-axis.

And finally, our crossover networks use our Vocal Integrity® topology, with Bay Audio bypass capacitors for exceedingly fast transient response and inner detail.



PTM/One



PTM/Two



PTM/Three

### Available In Three Formats.

Choose a traditional cabinet design, in-wall, or a custom configured design. Or call our Design Services department. We'll help select the most appropriate solution based on your aesthetic and performance criteria.

Because Staging speakers are placement-sensitive, we designed all three formats for compactness, and unobtrusiveness. This greatly enhances placement options for the best theater performance possible.



PTM Speakers can be placed horizontally or vertically.



PTM/One In-wall speakers for surround, hidden behind acoustic fabric on the side walls.

## Impact and Rumble Zones .....



### The Two Important Qualities Of Bass.

A great theater has palpable bass to the lowest registers, plus fast, energetic impact for exciting on-screen effects and music scores.

These tend to be separate issues, and are best addressed by dedicated subwoofers. Our Rumble Subs are larger enclosures (approximately 2-foot cube) with 15" high-

performance drivers and rack-mounted 500w amplifiers. Dedicated to the lowest frequencies, these subs reproduce thunderous effects with clarity and speed. Typically, our Design Services team custom-configures Rumble Subs for "invisibility" in the theater, building them into closet spaces, risers, the proscenium, and into wall spaces.

Impact Subs, on the other hand, are tuned specifically for percussive effects and lightning fast response. Whereas Rumble Subs give the deepest bass associated with an on-screen explosion, Impact Subs provide the "punch" that makes the explosion exciting.

We build our Impact Subs in compact enclosures (less than 1.5 feet in any dimension) and tune them specifically for lightning-fast response from 30 to 80 Hz. We can easily configure Impact Subs to fit throughout a theater — in wall cavities, closets, risers and columns.

By splitting bass reproduction into two zones, we have created specialized subwoofers that perform as a team, and give you the benefit of deep, rich bass, plus the excitement of percussive effects and music.



In this theater: Custom built Rumble Subs mounted into the proscenium. Custom Impact Subs mounted into the side columns.