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Innovators in wired & wireless systems

PHA
PRAGMATIC HIGH-PERFORMANCE ARRAYS

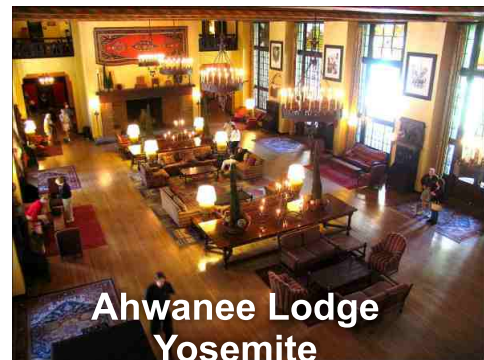COMMERCIAL | PROFESSIONAL | RESIDENTIAL

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PHA
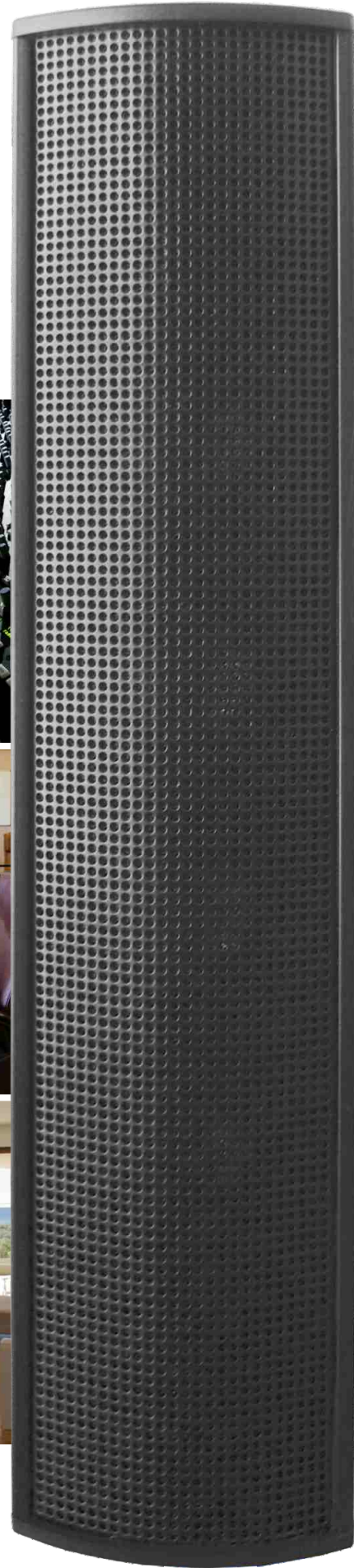
DAC
Defined Acoustical Coverage

Introducing a new era in line-array-speaker-technology, based on years of meticulous research led by Pragmatic engineers, the PHA Series line array columns with Defined Acoustical Coverage breaks new ground in performance, versatility, and cost.

Bring focused sound to any project in a sleek unobtrusive package. With a tiny 2" x 2" foot-print, the PHA can fit seamlessly into any display, kiosk, entertainment venue etc.. We offer 4, 8, 16 and 25 driver versions with different widths, depending on how much focus you need and distance from the speaker.

The PHA, array speakers, offer excellent acoustical coverage control focusing sound so that the sound level is greater in the coverage area than it is just a step to the side. They're the most precise in the industry.

The PHA directional speakers ensure audio is played where you want it. Even in the noisiest environments you can use a PHA focused speaker to deliver crystal clear audio to your target audience.

Ohio Stadium

Bellagio Hotel

Houses of Worship

FEDERAL TRADE COMMISSION BUILDING

Theme/Amusement Parks

Ahwanee Lodge Yosemite

Home Theaters

Corporate Board Rooms

Recreational Vehicles

PHA Line Array Speakers

The Loudest, Most Efficient and Compact Speakers to Deliver Your Message.
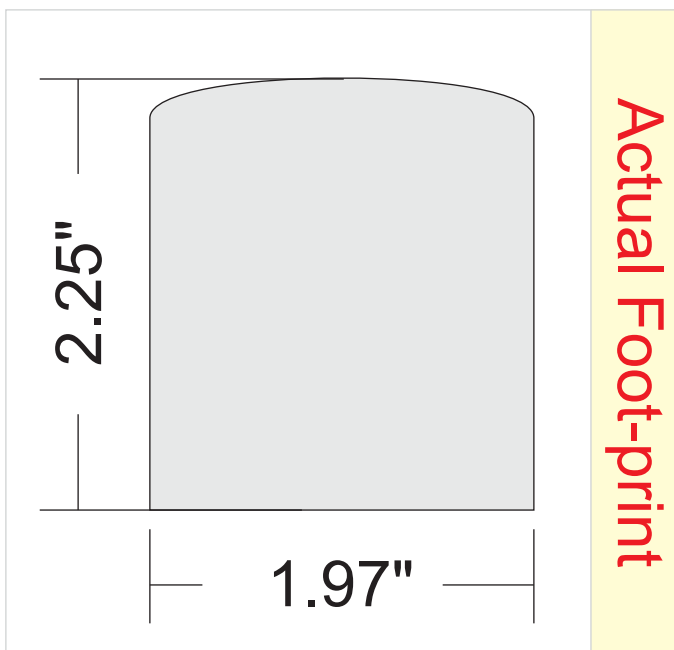
2.25"

1.97"

Actual Foot-print

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PHA.

Where PHA are in use

SPORTS
arenas, tennis courts, golf corses, **stadiums**, s w i m m i n g c e n t e r s ,

D-O-O-H
t r a i n s stations, **airports**, light-rail stations, shuttles, **subway stations,** b u s s t a t i o n s

CORPORATE
Conference rooms, d e m o n s t r a t i o n s , a s s e m b l i e s

HEALTHCARE
hospitals, pharmacies, nursing care, doctors offices

EDUCATIONAL
P A S , a s s e m b l i e s , demonstrations, talent c o n t e s t s

ENTERTAINMENT
live theater, **home theater,** **casinos**, amusement p a r k s , a u d i t o r i u m s

PARKS & RECREATION
Yachts, **dune** buggies, RVs, **jet** skis, **ski** boats, Outdoor gardens, **recreation centers**, sports and h e a l t h c l u b s

WORSHIP
Temples, **Churches**, **Mosques**, synagogues

HOSPITALITY
hotels, restaurants, cruise ships theme parks, **transportation**

RETAIL
grocery stores, whole sale, Point-of-Sale terminals, d e p a r t m e n t s t o r e s

Features & Benefits

- ➲ Sleek line array design, with exceptional dispersion control across long distances and impeccable clarity
- ➲ Compact 2" x 2" foot-print for surface-mounted, non-obtrusive installations
- ➲ Energy efficient
- ➲ Available in black or white for easy decor integration
- ➲ Multiple amplification and signal distribution options such as HideAway™ Series amplifiers and PADS™ systems
- ➲ Designed to compliment flat-panel LCD and Plasma TVs
- ➲ Extruded aluminum enclosure for natural heat dissipation and protection against harsh environments
- ➲ CE compliant
- ➲ Spring loaded terminals or with pre-installed speaker wires

Spring loaded terminals or with pre-installed speaker wires

Mounting holes

pragmatic
Model: PHA-4TW

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Specifications

PHA-4
Power Handling: 48 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 83dB @ 1W/1m
Impedance: 4-ohm
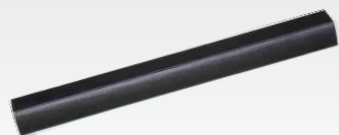**Dimensions (HxWxD):** 9" x 2" x 2"
Weight: 1lbs.
Finish: black or white
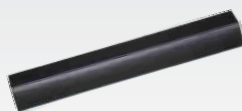
PHA-8
Power Handling: 96 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 87dB @ 1W/1m
Impedance: 4-ohm
Dimensions (HxWxD): 18-½" x 2" x 2"
Weight: 1.5 lbs.
Finish: black
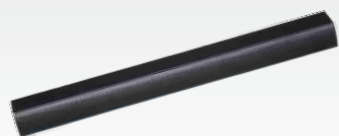
PHA-264
Power Handling: 48 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 83dB @ 1W/1m
Impedance: 4-ohm
Dimensions (HxWxD): 26 1/8" x 2" x 2"
Weight: 6 lbs.
Finish: black

PHA-16
Power Handling: 192 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 89dB @ 1W/1m
Impedance: 4-ohm
Dimensions (HxWxD): 25" x 2" x 2"
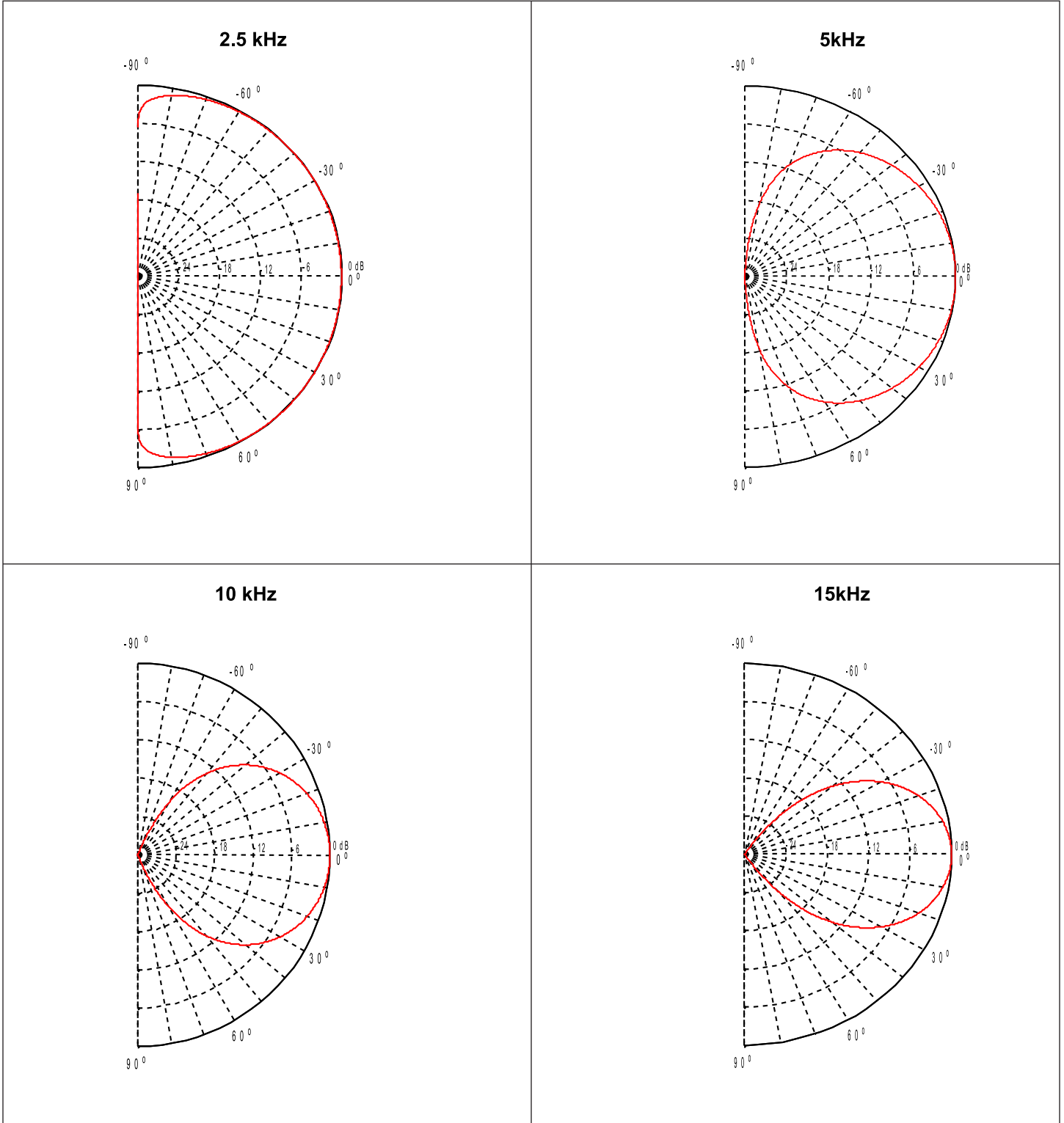**Weight:** 2.25 lbs.
Finish: black, white or silver

PHA-25
Power Handling: 288 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 89dB @ 1W/1m
Impedance: 4-ohm
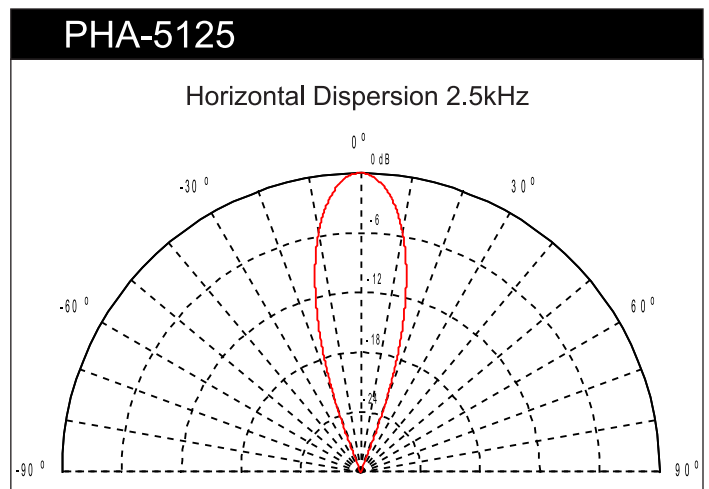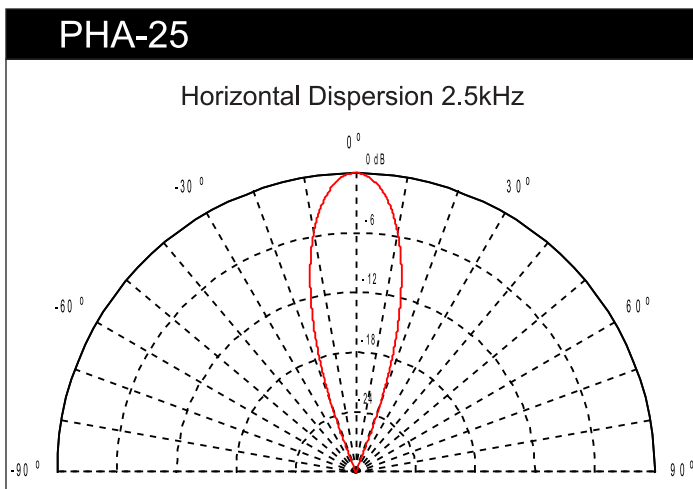**Dimensions (HxWxD):** 42" x 2" x 2"
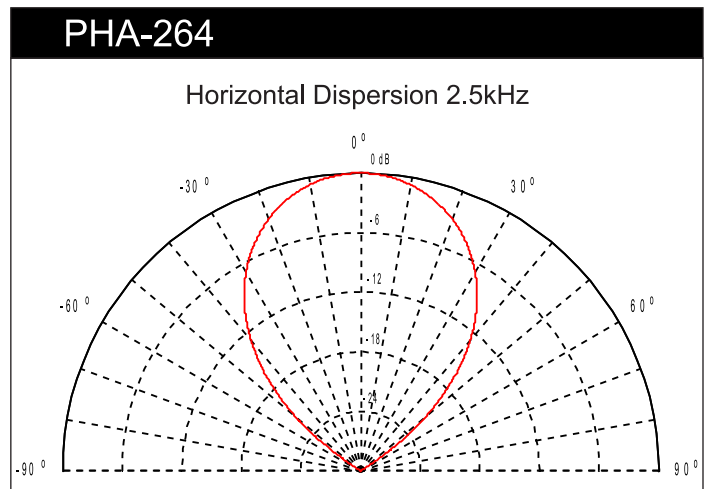**Weight:** 6 lbs.
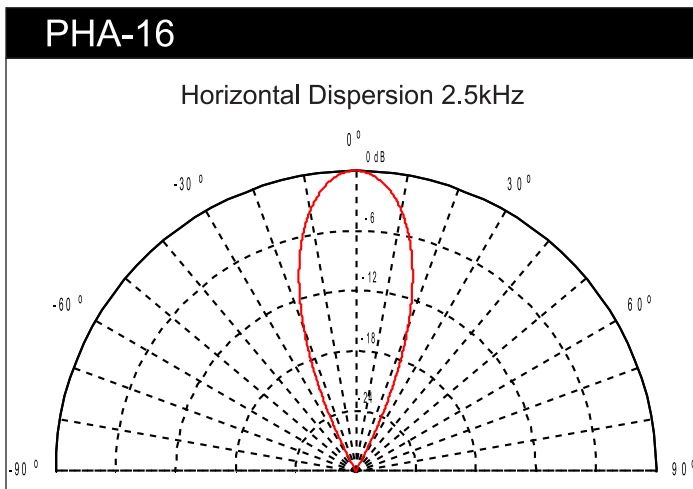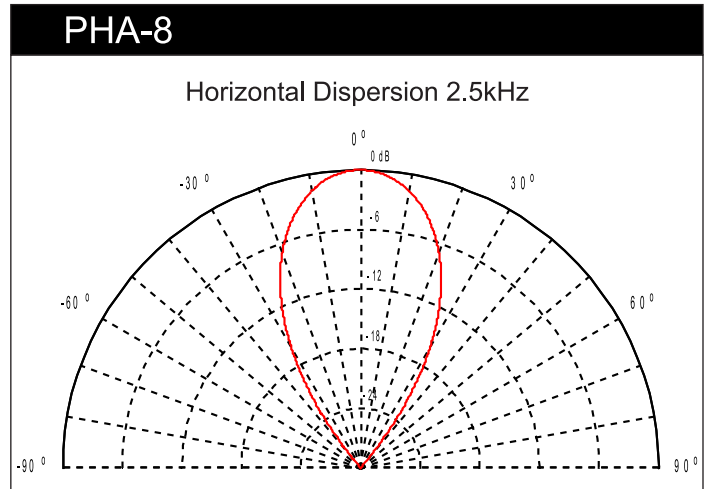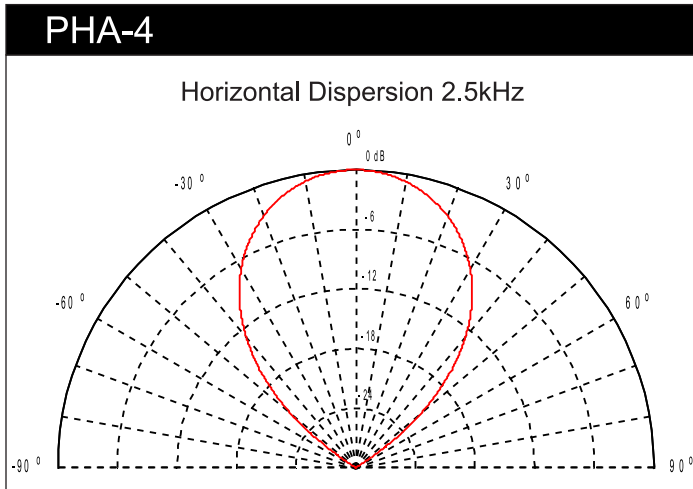**Finish:** black or white

PHA-5125
Power Handling: 288 watts max
Frequency Response: 120Hz - 20kHz
Sensitivity: 89dB @ 1W/1m
Impedance: 4-ohm
Dimensions (HxWxD): 51 9/16" x 2" x 2"
Weight: 6 lbs.
Finish: black

PHA

2.5 kHz

5kHz

10 kHz

15kHz

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Horizontal Sound Dispersion @ 2.5kHz when PHA speaker mounted horizontal

PHA-4

Horizontal Dispersion 2.5kHz

PHA-8

Horizontal Dispersion 2.5kHz

PHA-16

Horizontal Dispersion 2.5kHz

PHA-264

Horizontal Dispersion 2.5kHz

PHA-25

Horizontal Dispersion 2.5kHz

PHA-5125

Horizontal Dispersion 2.5kHz

Additional Pragmatic Products to Use in Conjunction With PHA Speakers

SAA

MCA
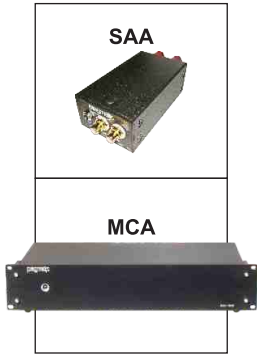
Amplification

HideAway™ Series
SAA-212 (stereo, class A/B, 2x12 watts)
SAA-224 (stereo, class D, 2x24 watts)
SAA-212 (stereo, class D, 2x36 watts)
SAA-212 (stereo, class D, 2x48 watts)
MBA-120 (mono block, class A/B, 1x20 watts)
MBA-124 (mono block, class D, 1x24 watts)
MBA-136 (mono block, class D, 1x36 watts)
MBA-148 (mono block, class D, 1x48 watts)

Multi-channel
MCA-12 (class D, 12x48 watts)

CATS™-HDMI

CATS™-VGA

A/V Distribution Over CAT5

CATS™HDMI
CATS-HDMI-MX8
(8 inputs & 8 outputs over 2 CAT5 cables)
CATS-HDMI-MX4
(4 inputs & 4 outputs over 2 CAT5 cables)

CATS-VGA
CATS-VGA-16B
(1 input & 16 outputs over 1 CAT5 cable)
CATS-VGA-12B
(1 input & 12 outputs over 1 CAT5 cable)

TPAVIR
Line-level stereo audio and video signals transmitted and received using simple twisted-pair wires

DAVES
Distributes audio/video signals to 4 listening areas using only a single CAT5 cable and each zone can select any source

PADS™

Audio Distribution Over CAT5

PADS
whole house audio distribution on category 5 with door-bell and paging integration options

TPA
Line-level stereo audio signals transmitted and received using simple twisted-pair wires

DMS
complete multi-source, multi-zone music distribution system with control on a single CAT5 wire

Source Products

MuSe
Hard disk based music server with up to 4-channels out-put and elaborate scheduler

Digital Video Server
No restricted easy to use video server for digital signage applications

Tuners
Digital and analog

MuSe™

Control

Control-9
Octal serial port hub for management of automation systems

Control-9™

Security

LSAD-1
Life **S**afety **A**udio **D**efeat - for audio override in case of emergencies

Cameras
- In-wall
- Wireless
- Dome
- Color or B/W

LSAD-1™

Custom Commercial Displays

- Digital Signage
- Corporate
- Healthcare
- Hospitality
- Detention facilities