



SUBWOOFERS

SPEAKERS

AMPLIFIERS

# PrecisionPower®

Absolutely State of the Art Mobile Audio™



# 2024

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# POWER CLASS *Vertical Amplifiers*

Precision Power is proud to present the boldest alongside the tallest generation, PowerClass Vertical Amplifiers. Newer vehicles manufactured today aren't getting any bigger. Finding a mounting location or taking up less floor space with traditional amplifiers is getting challenging; with Vertical PowerClass you can mount behind truck seats or vertically standing up in trunks or rear cargo areas on cars and SUV's

Technology is constantly advancing contemporary materials, new engineering techniques, and technology itself. PowerClass amplifiers represent what audiophile car audio can be. Unparalleled sound quality stems from multiple factors; top quality toroidal transformers, Sanken® transistors from Japan, and low tolerance Wima® resistors and capacitors from Germany, combining components for one of the highest quality amplifiers Precision Power has produced to date. The preamp section is exceptionally detailed with well-built crossovers; high pass, low pass, and subsonic frequencies can all be adjusted behind the removable front panel. To ensure that reduced or noisy input signals do not ruin the amplifier's output, we use balanced RCA inputs for maximum clarity.

PowerClass is beautiful, chiseled, and its vertical stance complements its heart & soul. Each amplifier is secured to its forever home by a concealed, surface-mounted proprietary bracket that locks into the chassis in multiple locations. Confidently display your most recent family members in almost any location, alongside a wheel well, storage cubbies, or even upside down from the ceiling if you're into that sort of thing...



- Sequenced Delays Eliminate Residual Power-Up/Power-Down Pops
- Differential RCA Inputs Isolate 12V/Audio to Ground, Eliminating Ground Loops & Noise
- Full Signal Path Low Noise/Distortion Circuitry Topology
- Optimal Component Layout for Minimal Distortion Induction & Signal Separation
- Differential Drives Divide Pre-Amp & Power-Amp Stages, Eliminating Ground Looping
- Output Stage Bias Individually Sequenced, Optimizing Sound Quality
- Stout 2 Oz. Copper Traces Effortlessly Transfer High Volume Internal Current
- Close Tolerance Signal Path Components; <1% - Wima® of Germany
- N-Channel MOSFET Transistors from Sanken® of Japan
- Volume, Low ESR Capacitance Banks Compensate Power Supply Ripple Currents
- Extra Low Current Drive Stage Increases Efficiency & Sound Clarity
- Individually Regulated Preamp/Crossover Power Supplies Ensure Signal Purity



POWER CLASS AMPLIFIER	MAX POWER (WATTS)	RMS POWER 4Ω BRIDGED, 14.4V	RMS POWER 2Ω, 14.4V	RMS POWER 4Ω, 14.4V	DIMENSIONS (3.25"W x 8"H)	GAIN CONTROL INCLUDED
PC500.4D	1,000	2 x 250	4 x 125	4 x 80	12.25"	-
PC700.4D	1,400	2 x 350	4 x 175	4 x 120	14.50"	-
PC1000.5D	2,000	2 x 200 + 600 x 1 (2Ω)	4 x 100 + 1 x 600	4 x 60 + 1 x 300	17.75"	INCLUDED
PC1000.1D	2,000	1 x 1,000 (1Ω)	1 x 600	1 x 300	12.25"	INCLUDED
PC1800.1D	3,600	1 x 1,800 (1Ω)	1 x 1,000	1 x 500	17.75"	INCLUDED



# ATOM amplifiers



ATOM amplifiers adopt the most exemplary Korean Class-D performance, reliability, and footprint of the original ATOM and iOn platforms. At first glance, you'll notice several key improvements. ATOM's signal inputs, power/ground, and speaker connections are all relocated to the chassis's leading edge for an easier, more appealing install. All pre-amp & crossover options are conveniently located on the backside. You might not notice additions to the circuit board, including improved power supply & output stage components & monoblock bridging capability. The installation of ATOM amplifiers is unique, using mounting pedestals at each corner. The pedestals elevate the heatsink, improving airflow around and underneath the chassis.



- High Efficiency Class D Full Range & Monoblock Amplifiers
- Hybrid Aluminum Alloy Heatsink for Optimum Dissipation
- Chassis Electrical Isolation & Air Convection Mounting Pedestals
- 2-ohm Stereo & 4-ohm Bridged Class D Full Range 4 ch. & 5 ch.
- 1-ohm Minimum Impedance Monoblocks, up to 1,800w
- Monoblock Bridging Capability for Double Amplifier Application
- MOSFET Power Supply w/ Audiophile Grade IR™ Transistors
- Military Grade SMT PCB Maintains Dynamic Performance
- Quick Disconnect Power and Speaker Harness (A400.4)
- 200mV-6V Low Level RCA or High Level Signal Input
- Quick Disconnect High Level & RCA Wire Harness Included
- Easy DIY Install Single Sided Terminals & Controls
- 4g Power Input Terminals & 12g Speaker Output Terminals
- Variable 12dB High Pass, Low Pass, & Subsonic Crossovers
- 12dB Bass Boost Increases Low Octave Harmonics
- Dash Mount Gain Control Module Included (monoblocks & 5 ch.)

ATOM Amplifiers	Black Anodized Finish					Gloss White Marinated		
	A400.4D	A700.4D	A1000.5D	A1200.1D	A1800.1D	MPA700.4D	MPA1000.5D	MPA1200.1D
Channels	4 Ch.	4 Ch.	5 Ch.	Monoblock	Monoblock	4 Ch.	5 Ch.	Monoblock
MAX Power	800w	1,400w	2,000w	2,400w	3,600w	1,400w	2,000w	2,400w
RMS Power 4Ω	60 x 4	100 x 4	60 x 4 + 1 x 250	400 x 1	650 x 1	100 x 4	60 x 4 + 1 x 250	400 x 1
RMS Power 2Ω	100 x 4	175 x 4	100 x 4 + 1 x 450	700x 1	1,000 x 1	175 x 4	100 x 4 + 1 x 450	700x 1
RMS Power 4Ω Bridged	200 x 2	350 x 2	200 x 2 + 1 x 600 (1Ω)	1,200 x 1 (1Ω)	1,800w (1Ω)	350 x 2	200 x 2 + 1 x 600 (1Ω)	1,200 x 1 (1Ω)
Remote Gain Control	-	-	Included	Included	Included	-	Included	Included
Dimensions: (6" w x 2.25" h)	6.00"	10.00"	13.25"	10.00"	13.25"	10.00"	13.25"	10.00"

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# ION amplifiers

We're in a time where small is popular. Reduced, more economical vehicles are more and more desirable. But that doesn't mean you have to sacrifice massive power for your audio system. The Precision Power iON amplifiers pack vast amounts of power into small chassis thanks to marvelously efficient full-range Class-D topology and SMT technology.



Small Compact 4.75" Wide Chassis  
2-ohm Stereo & 4-ohm Bridged Full Range Operation  
1-ohm Minimum Impedance Monoblock Operation  
MOSFET Power Supply w/ Audiophile Grade IR™ Transistors  
Military Grade SMT PCB Maintains Dynamic Performance  
Hybrid Aluminum Alloy Heatsink for Optimum Dissipation  
Direct Short, Thermal, & Overload Circuits Protect Amplifier  
200mV-6V High Level or Low Level RCA Input  
Quick Disconnect RCA/High Level Wire Harness  
Direct Wire 8ga. Power and Speaker Output Harness  
Variable 12dB High Pass, Low Pass, & Subsonic Crossovers  
12dB Bass Boost Increases Low Octave Harmonics (monoblock)  
Dash Mount Gain Control Module Included (select models)

Bluetooth							
ION	i350.2	i520.4	i520.4B	i1000.4	i640.5	i650.1	i1000.1
Channels	2 Ch.	4 Ch.	4 Ch. Bluetooth	4 Ch.	5 Ch.	Monoblock	Monoblock
Max Power	700w	1,000w	1,000w	2,000w	1,300w	1,300w	2,000W
RMS Power 4Ω	115 x 2	100 x 4	100 x 4	140 x 4	60 x 4 + 200 x 1	400 x 1	350 x 1
RMS Power 2Ω	175 x 2	130 x 4	130 x 4	250 x 4	80 x 4 + 350 x 1	650 x 1	600 x 1
RMS Power 4Ω Bridged	350 x 1	260 x 2	260 x 2	500 x 2	160 x 2 + 350 x 1	-	1,000 x 1 (1Ω)
Remote Gain Control	-	-	-	-	Included	Included	Included
Dimensions: (5.375" w x 1.875" h)	5.50"	9.25"	9.25"	10.25"	9.25"	9.25"	10.25"

# PrecisionPower® TRAX amplifiers

Precision Power is proud to introduce the newest generation of amplifiers, TRAX. Over compensated high headroom power supplies are capable of producing more than conventional power gain with 2 ohm loads. Additionally, the Hi-Tech PCB's with the latest technology enhance the quality of your listening experience.



2-Ohm Stereo, 4-Ohm Bridged Full Range Operation  
2-Ohm Stable Class D Monoblock Operation  
Direct Short, Thermal, & Overload Circuits Protect Amplifier  
200mV-6V High Level or Low Level RCA Input  
Tri-Mode Capable (2/4/5 ch. models)  
Variable 12dB High, Low, & Subsonic Crossovers  
Variable 12dB Band-Pass Crossovers (2ch & 5ch)  
12dB Bass Boost Increases Low Octave Harmonics (monoblock)  
Direct Wire 4ga. Power & 12ga Speaker Terminals  
Dash Mounted Remote Gain Control (5ch. & 1 ch.)

TRAX	TRAX2.800D	TRAX4.1200D	TRAX4.1600D	TRAX5.2200D	TRAX1.1500D	TRAX1.2000D	TRAX1.3000D
Channels	2 Ch.	4 Ch.	4 Ch.	5 Ch.	Monoblock	Monoblock	Monoblock
MAX Power	800w	1,200w	1,600w	2,200w	1,200w	2,000w	3,000w
RMS Power 4Ω	125w x 2	100w x 4	125w x 4	100w x 4 + 350w x 1	400w x 1	700w x 1	1,000w x 1
RMS Power 2Ω	200w x 2	150w x 4	200w x 4	150w x 4 + 500w x 1	600w x 1	1,000w x 1	1,500w x 1
RMS Power 4Ω Bridged	400w x 1	300w x 2	400w x 2	300w x 2 + 500w x 1	-	-	-
Remote Gain Control	-	-	-	Included	Included	Included	Included
Dimensions: (9.75"W X 2.50"H)	7.75"L	11.75"L	13"L	15"L	9"L	14"L	16.5"L

# ATOM subwoofer

The first thing you noticed was the wild dustcap; it's not just for your viewing pleasure. The three fins brace the cone and eliminate cone flex during high excursion. And since they are aluminum and couple to the voice coil, they act as a heatsink or heat extractor. Essential to keeping the subwoofers more relaxed and helping them last longer.

ATOM subs use a composite sandwich cone with a polypropylene surface for durability and Spruce pulp backing for smooth low bass. This new series for Precision Power will use an aluminum dust cap that couples to the voice coil former and extends over the cone. Sparing no compromise, the ATOM series's motor assembly includes an extended tap top plate, which expands the magnetic field results in dynamic sounds & performance quality you demand and expect. ATOM subwoofers are engineering to be a pinnacle of Precision Power, delivering you absolutely state-of-the-art mobile audio.



**Cast Aluminum Heatsink Dust Cap Coupled to the Voice Coil Former**  
Absorbs & dissipates heat from thermally sensitive voice coil

**Aluminum Dust Cap Fins Adhered to Cone Strengthen Rigidity**  
Eliminates cone flex & radiated distortions during high excursion

**Non-Transfer Spruce Pulp Cone w/ UV & Chemical Protection**  
Composite wood pulp & natural fibers produce smooth, low bass

**Dual Poly-Cotton Suspension Maintains Magnetic Gap Linearity**  
Dampens violent accelerations ensuring moving diaphragm alignment

**2.5" 4-Layer 100% Oxygen-Free Copper Voice Coil on Aluminum Former**  
Aluminum former routes heat from the voice coil to the dust cap by conduction transfer

**Hot Forged 1-piece 10mm Top Plate w/ +5mm Expanded Magnetic Gap**  
Expanded magnetic gap increases magnetic force for higher SPL & maintaining linearity

**Hot Forged 1-piece 10mm T-Yoke w/ Center Pole & Back Plate Venting**  
Venting milled into the T-yoke pole & back plate remove heat by convection transfer



ATOM SUBWOOFERS	AW.10D2	AW.10D4	AW.12D2	AW.12D4
RMS / MAX Power (watts)	500 / 1,000	500 / 1,000	600 / 1,200	600 / 1,200
Efficiency (1w/1m dB)	82.5dB	82.5dB	84.4dB	84.4dB
Voice Coil Configuration	2.50" DVC 2Ω	2.50" DVC 4Ω	2.50" DVC 2Ω	2.50" DVC 4Ω
Mounting Depth	6.00"	6.00"	6.25"	6.25"
Optimum Sealed ft³	0.75ft³	0.75ft³	1.00ft³	1.00ft³
Optimum Ported ft³	1.50ft³	1.50ft³	2.00ft³	2.00ft³

# PHANTOM subwoofer

Phantom subwoofers are designed and engineered in the USA; these subwoofers give you that sense of nostalgia throwback Flat Piston subwoofer look you remember with all the goodie goodies of today's available technology for big output potential. Newer technology with the finest materials to consistently deliver you the best performance, sound quality, reliability, and value in the car audio industry. Phantom Series Subwoofers uses fiberglass stranding woven together for ultimate strength and minimal elasticity. A heavy soaking in epoxy combined with the sonic qualities of pulp paper backing creates a premium feel.



**Non-Transfer Spruce Pulp Cone w/ Woven Fiberglass Flat Piston Diaphragm**  
Composite wood pulp & natural fibers produce smooth, low bass

**Extended Excursion Polyether Foam Surround w/ UV & Chemical Protection**  
Superior bonding properties adds strength needed during extreme movement

**Dual Poly-Cotton Suspension Maintains Magnetic Gap Linearity**  
Dampens violent accelerations ensuring moving diaphragm alignment

**2.5" 4-Layer 100% Oxygen-Free Copper Voice Coil on Aluminum Former**  
Aluminum former routes heat from the voice coil to the dust cap by conduction transfer

**Hot Forged 10mm Top Plate & 1-piece 10mm T-Yoke w/ Center Pole & Back Plate Venting**  
Venting milled into the T-yoke & subwoofer frame expel heat by convection transfer

**High-Temperature, Low Tolerance Adhesives Resist Thermal Failure**  
**1-Piece Butyl Rubber Trim Ring Seconds As a Gap-Sealing Gasket**

**Nickel Plated 8ga Spring Loaded Compression Wire Terminals**

PHANTOM SUBWOOFERS	PH.10	PH.12
RMS / MAX Power (watts)	700 / 1,400	800 / 1,600
Efficiency (1w/1m dB)	82.95dB	85.80dB
Voice Coil Configuration	2.50" DVC 2Ω	2.50" DVC 2Ω
Mounting Depth	5.875"	6.00"
Optimum Sealed ft³	1.00	1.50
Optimum Ported ft³	1.50	2.25

# POWER CLASS 3-Way Premium Components

Traditional thinking suggests that the human ear can only audibly hear up to 20,000 Hz. So why build a product with reproduction capability to 40,000 Hz? The answer is simple. While we can only audibly hear to 20,000 Hz, there is musical harmonic content well beyond. These higher frequencies harmonics give music texture, presents, and the airiness of a live performance. It is those higher frequencies that give music emotion and touches your other senses. They excite the hair follicles on your arms... your legs... the back of your neck. It makes your audio system sound like you are sitting in front of a live performance.

## AMT Tweeter Technology

The cornerstone of this unique component system is our Air Motion Transformer, AMT for short. It is this individual transducer that extends your high-frequency reproduction to over 40,000 Hz and creates this texture, presence, and puts the emotion back into your listening experience.

- AMT's lightweight pleated diaphragm moves side to side instead of the traditional backward and forwards motion, dramatically improving off-axis performance.
- Neodymium Rare Earth bar magnets create a robust driving motion structure in a compact size.
- Adjustable Spin Nut Mounting System adapts to the variable mounting thickness and lets you choose your preferred mounting location for simplified installation

"The three-way PPI system delivers a level of detail that I usually only expect from good home speaker systems..."

**PAS**  
**MAC**  
**+**  
GARRY SPRINGGAY  
TECHNICAL EDITOR  
PASMAG

POWERCLASS	P.65C3
Size & Configuration	6.5" 3-way
RMS / MAX Power (watts)	200 / 400
Frequency Response	20-40kHz
Efficiency (1w/1m dB)	94dB
Woofer Mounting Depth	2.65"

3-WAY  
COMPONENTS

# ATOM speakers

ATOM COMPONENT	AS.65C2
Size & Configuration	6.5"
RMS / MAX Power (watts)	75 / 110
System Impedance	4-Ohm
Frequency Response	50-20KHz
Efficiency (1w/1m dB)	88.4dB
Woofer Mounting Depth	2.50"

Painstakingly engineered, ATOM speakers feature the highest quality material & components to create the purest sonic qualities possible. Seamless, phase coherent blending of the speaker components give music texture, presence & the airiness of a live performance. It's these harmonics that pull emotion and all your senses back to the listening experience.

**Polyamide 66 + 30% Glass Fiber Injection Molded Frame**  
Superior for use in high impact & extreme temperature applications

**Natural Pulp Fiber Cone w/ Polypropylene Coating**  
Hybrid performance characteristics for premium sound & efficiencies

**1" Tetoron® Fabric Hemispherical Dome Tweeter**  
6dB passive high-pass filter blends coherently with the speaker cone

**1.25" O.F.C. Copper Voice Coil on Kapton® Former**  
Extreme temperature stability & low mass increases speaker efficiency

**Rear-Attached Surround Increases Effective Cone Area**  
**Poly-Cotton Damper w/ Woven Braided Tinsel Leads**  
**Powder Coated Mesh Steel Grills Included**

ATOM SPEAKERS	AS.69	AS.65	AS.57	AS.52
Size & Configuration	6" x 9"	6.5"	5"x7"	5.25"
RMS / MAX Power (watts)	75 / 150	50 / 100	60 / 120	50 / 100
System Impedance	4-Ohm	4-Ohm	4-Ohm	4-Ohm
Frequency Response	60-20kHz	55-20kHz	75-20kHz	55-20kHz
Efficiency (1w/1m dB)	89.9dB	88.4dB	89.5dB	88.4dB
Woofer Mounting Depth	3.00"	2.50"	2.75"	2.50"

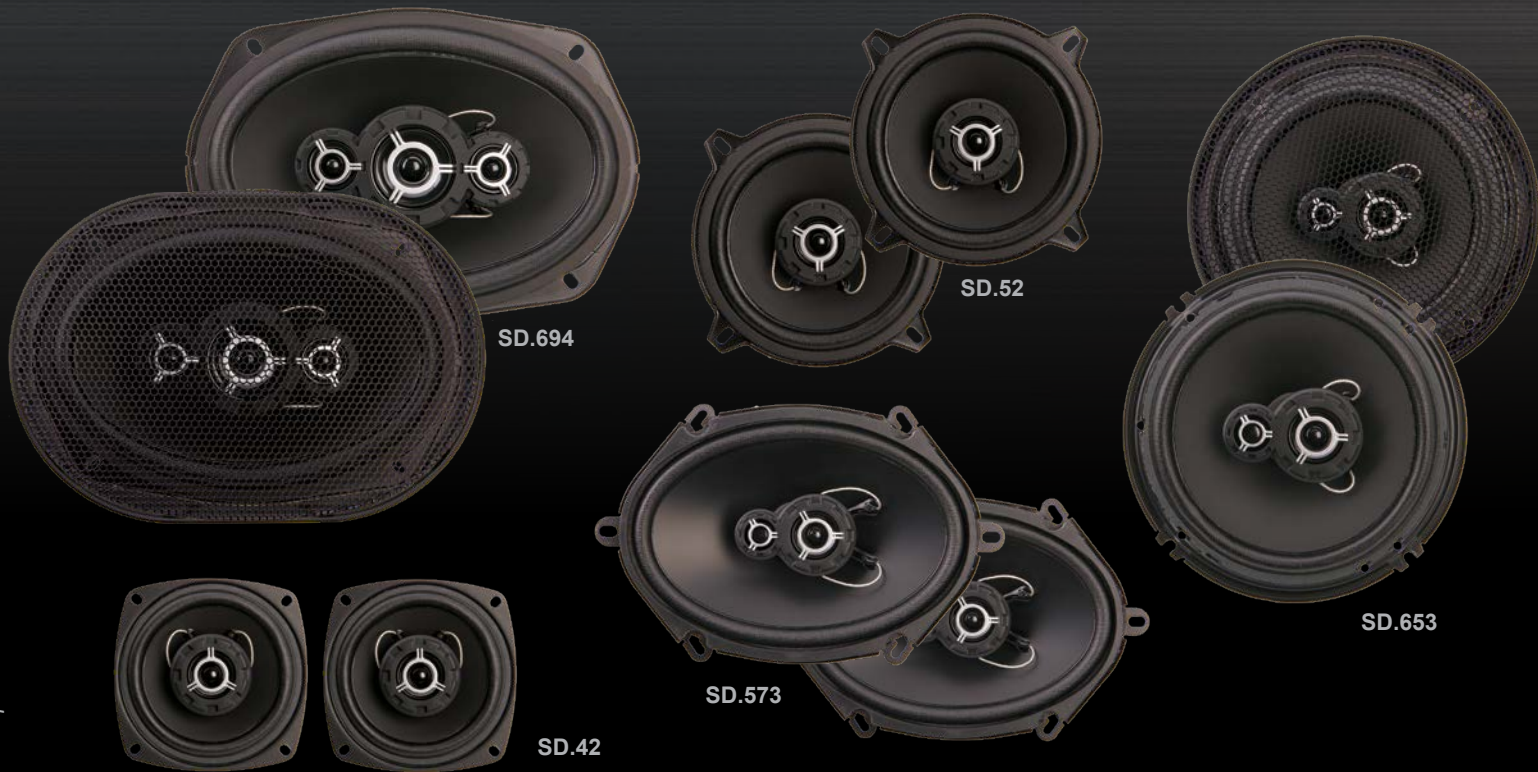
# SEDONA

speakers



Improved Efficiency Diaphragm & Magnet Structure  
Injection Molded Polypropylene Cone  
Treated Woven Cloth Surround  
Phase Plug Improves Dynamic Response  
1" Voice Coil on Aluminum Former  
4-ohm System Impedance  
Quick Disconnect Terminals  
1" Flush & Surface Mount Dome Tweeter  
Passive Crossover Included  
Built-in Tweeter Protection

SEDONA	SC.65
Size & Configuration	6.5" 2-way
RMS / MAX Power (watts)	120 / 350
System Impedance	4-Ohm
Frequency Response	70-20kHz
Efficiency (1w/1m dB)	92dB
Woofer Mounting Depth	2.50"



SEDONA SPEAKER	SD.694	SD.653	SD.52	SD.42	SD.573
Size & Configuration	6" x 9" 4-way	6.5" 3-way	5.25" 2-way	4" 2-way	5" x 7" 3-way
RMS / MAX Power (watts)	170 / 500	100 / 300	80 / 250	70 / 200	120 / 350
System Impedance	4-Ohm	4-Ohm	4-Ohm	4-Ohm	4-Ohm
Frequency Response	50-20kHz	80-20kHz	90-20kHz	100-20kHz	75-20kHz
Efficiency (1w/1m dB)	90dB	89dB	87dB	85dB	89dB
Woofer Mounting Depth	4.25"	3.125"	3.125"	2.875"	2.625"

Improved Efficiency Diaphragm & Magnet Structure  
Injection Molded Polypropylene Cone  
Treated Woven Cloth Surround  
1" Voice Coil on Aluminum Former  
4-ohm System Impedance  
Quick Disconnect Terminals  
2" Balanced Dome Mylar Midrange (SD-694)  
1" Balanced Dome Mylar Tweeter  
1/2" Dome Super Tweeter (select models)

# PRO-AUDIO

MIDRANGE



## 2-WAY PRO AUDIO SPEAKER WITH COMPRESSION TWEETER!

2-WAY COAXIAL	PM2.654	PM2.804	PM2.104
Size	6.50"	8.00"	10.00"
Peak Power Handlin	225w	300w	450w
Impedance	4-Ohm	4-Ohm	4-Ohm
Frequency Response	150-8kHz	140-6kHz	85-4.5kHz
Efficiency (1w/1m dB)	96dB	98dB	99dB
Mounting Depth	3.125"	3.50"	4.00"

## COMPRESSION TWEETERS

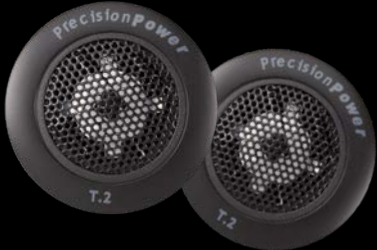
TWEETERS	PT.2	PT.4
Peak Power Handling	90w	100w
Diaphragm Size/Material	1.00" Titanium	1.00" Aluminum
Impedance	4-Ohm	4-Ohm
Frequency Response	3kHz-20kHz	3kHz-20kHz
Efficiency (1w/1m dB)	109dB	109dB
Mounting Depth	1.125"	1.50"-2.00"



## TWEETERS

Flush, Surface, or Angle Mounting  
Adjustable Eyeball Design  
Built-in 12 dB In-Line Crossover

	T.2
Peak Power Handling	100w
Diaphragm Size/Material	1.00" Mylar
Impedance	4-Ohm
Frequency Response	2kHz-21kHz
Efficiency (1w/1m dB)	94dB
Mounting Depth	0.75"



# signal processors

## E.5V

### 5 BAND PARAMETRIC EQUALIZER w/ Voltage Level Indicator

Five Variable Frequency Bands  
Master and Subwoofer Volume Controls  
+/- 12dB Boost/Cut for Each Band  
LED Display Shows Frequency & Voltage  
Independent Subwoofer Level Control  
Variable 30-300Hz Subwoofer Low-Pass Filter  
Variable 15-50Hz 12dB Subsonic Filter  
Two Selectable Balanced Inputs  
Line Driver Built-In  
Independent Channel Gain Controls  
Input Selector Switch & Fade Control  
Built-in 8.5V Line Driver  
Operating Voltage: 11V-15V  
Front, Rear, & Subwoofer RCA Outputs  
Blue LED Backlit Control Knobs



# signal processors

## E.DZ

### 1/2 DIN Dual Zone Equalizer

2 Selectable Balanced RCA Inputs w/ Input Gain  
Four 18dB Front Bands; 125Hz, 500Hz, 3.5kHz, 12kHz  
Three 18dB Rear Bands; 50Hz, 600Hz, 6.3kHz  
Independent Subwoofer Level Control  
Selectable Subwoofer LPF; 32Hz, 64Hz, 125Hz  
Up to 8V Front, Rear, & Subwoofer RCA Outputs  
Fader Control  
Red Backlit Control Knobs



## E.7

### 1/2 DIN 7-Band Parametric EQ w/ LED Display

Seven Variable Frequency Bands  
+/- 12dB Boost/Cut for Each Band  
LED Display Shows Frequency & Voltage  
Independent Subwoofer Level Control  
Variable 30-300Hz Subwoofer Low-Pass Filter  
Variable 15-50Hz 12dB Subsonic Filter  
2 Selectable Balanced RCA Inputs  
Independent Channel Gain Controls  
Input Selector Switch & Fade Control  
Built-in 7V MAX Line Driver  
Front, Rear, & Subwoofer RCA Outputs  
White LED Backlit Control Knobs



## BP.8

### Bass Signal Processor

Variable 27-63Hz Bass EQ  
Variable Boost Q  
Boost Voltage Limitation Control  
Selectable 35,50,80Hz Subsonic Filter  
10V Max Line Driver  
Balanced Signal Inputs, Up To 15 Volts  
Selectable Signal Grounding Mode  
Selectable Ground Isolation  
Dash Mount Remote Gain Control  
THD: .003%  
S/N Ratio: 130dB



2024

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