



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...



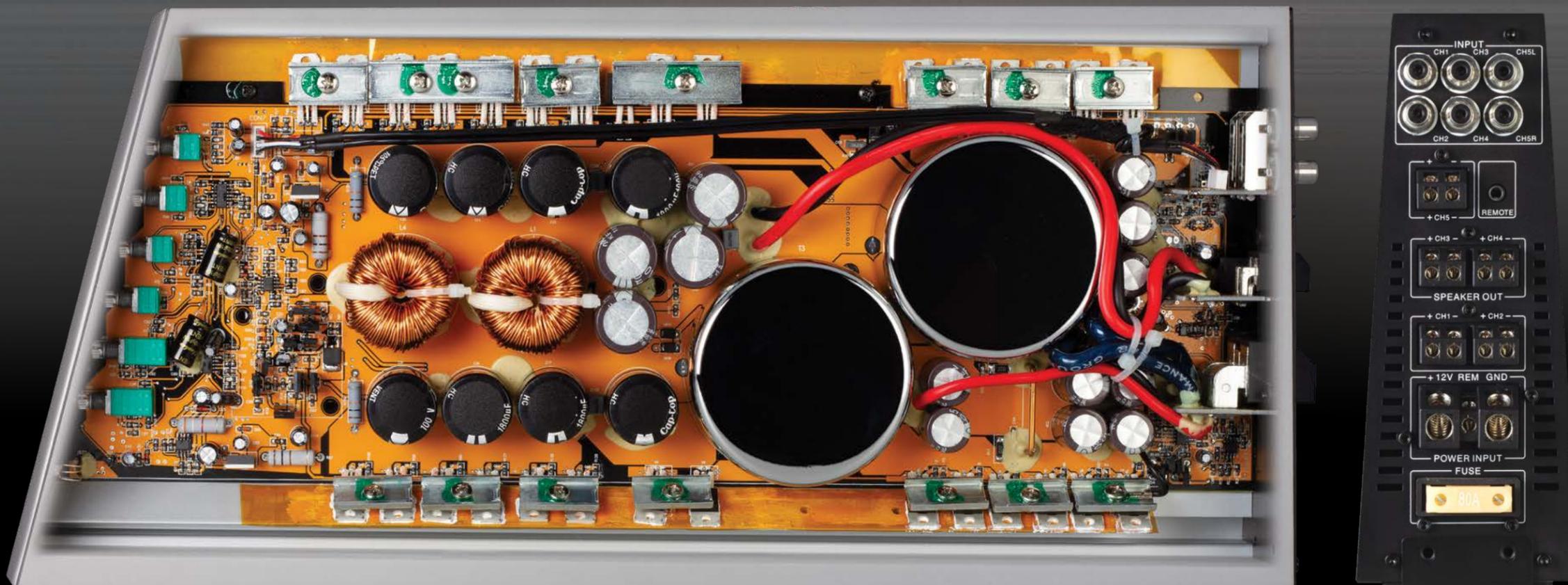
- Sequenced Delays Eliminate Residual Power-Up/Power-Down Pops
- Differential RCA Inputs Isolate 12V/Audio to Ground, Eliminating Ground Loops & Noise
- Full Signal Path Low Noise/Distortion Circuitry Topology
- Optimal Component Layout for Minimal Distortion Induction & Signal Separation
- Differential 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



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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"

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)

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 ft ³	0.75ft ³	0.75ft ³	1.00ft ³	1.00ft ³
Optimum Ported ft ³	1.50ft ³	1.50ft ³	2.00ft ³	2.00ft ³

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 ft ³	1.00	1.50
Optimum Ported ft ³	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"

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 Handling	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"



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)

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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