



Directed Audio Essentials are engineered to optimize the performance of your Orion Audio components, and recommended for use with all other brands of fine mobile audio products.

Get the winning performance you expect by matching it with the finest power delivery components, cabling and noise-free signal cables available: Directed Audio Essentials! These super-premium audio accessories deliver pure, free-flowing sound by utilizing only the highest quality materials and precision machined black chrome-plated components for maximum signal transfer. Oxygen-free copper cabling ensures that nothing is lost or added as the music flows unimpeded from source to destination!

Your amplifiers will deliver every watt of audio power available when they rely on unbeatable Directed Audio Essentials Power Capacitors and professional grade battery adapters, fuses and fuse holders, and heavy-duty terminals. Our award-winning audio adapters offer seamless integration of aftermarket audio systems with original equipment radios, and unwanted vehicle resonance and noise is easily tamed with Sound Off damping material. Directed Audio Essentials gives your system the edge it needs to win in the competition lanes and on the highways!



ORION
HIGH PERFORMANCE CAR AUDIO



Designed and Engineered in the USA by
Directed
ELECTRONICS, INC.

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2004

Orion™...since the beginning

it's been all about attitude...hardcore attitude that defines a lifestyle. Yeah it's audio, audio for bad boy applications and phat, fun rides, but it's audio designed with an attitude that takes every install to the outer limits. Nothing ordinary. And when it's go time, you'll be ready.

Decades of world finals champions and boulevard bullies that have flown the flag, still, to this day, bleed Orion red. If you're one of them, you know, it's all about who's got the baddest toy in the lot.

Every Orion product is new...engineered to perfection and built to bring home the trophies. The new Orion gear holds nothing back. Seek out the legendary power and clarity of Orion amps with their massive power supplies and Intelli-Q™. Marvel at the new H2, the second generation HCCA subwoofers with patent pending Dual Gap Geometry technology.

So, define your lifestyle with attitude...Orion hard-core attitude. If you eat, sleep and breathe radical gear and wild times, welcome to the crew!



Orion™ technology

Virtually every piece in the all-new product line was designed and manufactured from scratch. Technology breakthroughs from the Directed Engineering team include the revolutionary patent pending, Dual Gap motored H2 subwoofers and Orion's powerhouse model 2500D - 2500 watts of class D power stable down to 1 ohm. The new C-series coaxes feature 3 ohm voice coils, squeezing maximum performance from head units and car amplifiers. The Orion MaxxBass® signal processor moves the technology of psychoacoustics out of the recording studio and into your car, substantially enhancing bass performance while reducing system power demand and speaker excursion. The legendary DEQ-30 competition digital equalizer is back...all in all, the strongest product in Orion history. Let our new technology power your hardcore attitude.



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2-CHANNEL AMPLIFIERS



Five new models, featuring a new industrial design that evokes futuristic visions and classic shapes at once. Hard anodized, polished gunmetal finishes are machined with Orion's proud new logo and finished with end caps that complete the flowing lines of the understated cooling fins... on the inside, massive power supplies drive complimentary bipolar output stages anchored by mil-spec circuit boards. The legendary Orion combination of pure power delivery and absolute signal clarity lives on. Front end features include a range by model of user-friendly crossovers such as the proprietary Intelli-Q™ circuit, high and low level inputs, and advanced signal routing options. Rock solid power delivery from 200 watts up to 800 watts, Orion-style.

features:

Intelli Bass™ variable bass equalization

Intelli Q™ bass optimization circuit and remote gain option (model 8002 only)

2-way variable crossover and high-level input (models 2002, 3002)

Separate adjustable, variable 2-way active crossovers w/proprietary Copy/Master control circuit for RCA outputs (models 4002, 6002, 8002)

Copy/Master feature supports high-pass, low-pass, or bandpass configuration and gain matching for multiple amp systems

Heavy gauge direct-wire high current satin finish power and speaker terminals

Mono/stereo switchable



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Mono ≠ Multi-Channel Amplifiers

whether it's more power

or more channels, Orion's 2004 amplifier lineup delivers. The new 2500D delivers an astounding 2500 watts into 1 ohm - and those are real, 13.8V continuous watts, not the "if lightning strikes" watts some companies claim. Whether your goal is an SPL world record, or you just want the meanest, hardest hitting system in town, these three new class D models will get the job done. Extreme power, extreme efficiency, and extreme construction details like massive paralleled internal busses and a directed internal air flow cooling design characterize these monster amps that proudly advance Orion's legacy.

Ultimate flexibility is the name of the game for the three new multi-channel amplifiers. Designed to run any speaker configuration the system designer can envision, these amps utilize the same massive power supplies and bipolar output configurations as our industrial-strength 2 channel models. Selectable input switching, high level inputs, remote control option, and the proprietary Copy/Master circuit are part of the multi-channel feature selection along with Intelli-Q™ and 2-way active crossovers. With two convenient-sized 4 channel models and the powerhouse 700 watt 5 channel model 7005, Orion has all the bases covered.



features:

Class D Selectable 12/24 dB/octave variable low-pass filter

mono: Switchable phase invert function

Intelli-Q™ bass optimization circuit and remote gain option

Separately adjustable, selectable variable high-pass filter with proprietary Copy/Master control circuit for RCA outputs

Copy/Master feature supports gain and crossover adjustment matching in multiple amp applications

Allows external bridging of two matched gain amplifiers (models 600D and 1200D only)

Heavy gauge direct-wire high current satin finish power and speaker terminals

Multi-Channel: 2-way variable crossovers and high-level inputs (model 4004)
Intelli-Q™ bass optimization circuit and remote gain option (model 7005)

Separately adjustable, variable 2-way active crossovers with proprietary Copy/Master control circuit for RCA outputs (models 8004, 7005)

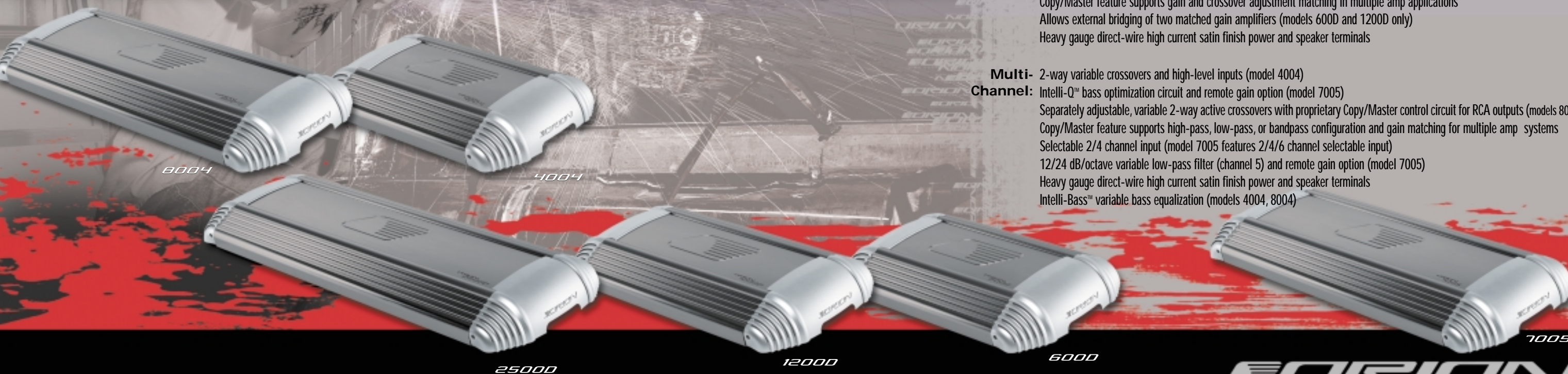
Copy/Master feature supports high-pass, low-pass, or bandpass configuration and gain matching for multiple amp systems

Selectable 2/4 channel input (model 7005 features 2/4/6 channel selectable input)

12/24 dB/octave variable low-pass filter (channel 5) and remote gain option (model 7005)

Heavy gauge direct-wire high current satin finish power and speaker terminals

Intelli-Bass™ variable bass equalization (models 4004, 8004)



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SUBWOOFERS



H2

The H2™ (short for "HCCA gen 2") subwoofer design features a unique new motor design called Dual Gap Geometry (patent pending) that centers a short, lightweight voice coil between two magnetic gaps. The resulting ultralight moving mass is driven through a far flatter, more linear stroke by the extended magnetic field. The result is phenomenal excursion-29mm Xmax-and linearity as well as enhanced efficiency, and innovations in the basket industrial design allow an industry-leading 2000 watts continuous power handling. Dual spiders on a raised ventilated spider tower support the extreme mechanical excursion limits and improve air flow for better cooling. All of this results in a subwoofer that can perform at the edge of the SPL envelope and beyond while keeping its cool. And of course, the H2 sounds as sweet as it looks...

features:

- New industrial design marries traditional HCCA styling cues with cutting edge technology
- Massive proprietary die-cast basket supports integrated Dual Gap motor assembly
- Ultra-rigid heat-hardened aluminum cone and tough NBR surround
- 3" two layer copper voice coil on aluminum former
- Proprietary AngleLock wiring terminals
- Die-cast mounting clamps integrated into tooled wrap-gasket
- Dual 2 or dual 4 ohm models in 10", 12", and 15" sizes



H2 15.2/4



H2 12.2/4



H2 10.2/4

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SUBWOOFERS

SEPARATES

the P-series delivers

the awesome low frequency performance of the much-praised XTR PRO® woofer family at aggressive prices. Built in uniquely tooled heavy gauge rolled steel baskets, these woofers handle an astonishing 1000 watts of peak music power. They outperform their distinguished predecessors with over 17mm of Xmax supported by a stacked motor assembly and medium-wide nitrile-butyl rubber surround. Designed for high output levels from small sealed enclosures with no loss of sound quality, or in vented enclosures using the unique Intelli-Q™ circuit built into Orion amplifiers for maximum bass and low frequency impact.

features:

- Heavy gauge rolled steel Orion-designed basket with dual stack magnet assembly
- High-rigidity paper cone and medium roll NBR surround
- Tight-small sealed box performance
- 500 watts continuous/1000 watts peak
- 2-1/2" voice coil on aluminum former and vented pole piece
- Custom-tooled wrap gasket and protective magnet boot
- Satin-finish heavy gauge wire terminals
- Available in dual 2 or dual 4 ohm models; 10", 12", and 15"



P15D2/4



P12D2/4



P10D2/4



The P-series die-cast components feature aluminum-treated polypropylene cones and vapor-deposit titanium dome tweeters. Capable of maintaining their balance and clarity at exceptionally high output levels, they are the perfect complement to the P-series or H2™ subwoofers. The crossovers feature tweeter level adjustment, switchable tweeter polarity, and are biampable for extreme system designs.

features:

- New tooled die-cast baskets designed to match P-series and H2 subwoofer frames
- 6mm linear one-way excursion delivers great "up front bass" performance
- Power handling 100 watts continuous/150 watts peak
- Tough Santoprene surround for enhanced low frequency response and durability
- 1" vapor-deposit titanium dome tweeter with neodymium magnet
- Supplied with swiveling flush and surface mounting hardware
- Crossover achieves 18dB/octave acoustic cut off and is biampable
- Aluminum vapor-deposit injection-molded poly cone
- Tweeter level and polarity switches



P6.2



P5.2

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SUBWOOFERS

C-series always known

for great subwoofer performance and value, Orion delivers again with this entry level subwoofer family. C-series subs are packed with upgraded materials like custom-tooled, heavy gauge steel baskets, medium wide NBR surrounds, and gold-plated strain-relief terminals. Power handling is a very substantial 400 watts peak - these are subs that hammer and are built to be hammered on. Optimized for great performance in typical box sizes of all types, including popular pre-fabricated enclosures.

features:

- Orion-designed steel basket with rolled edges
- Mass-added paper cone and NBR surround
- Poly cotton blend spider and extended vented pole piece
- Gold-plated strain-relief terminals



SEPARATES



C-series components deliver unsurpassed sound quality and accuracy for upgrading any sound system. Outboard passive 2-way crossovers ensure that the C5.2/6.2 component systems deliver exceptionally accurate frequency response, and the midbass output from the powerful 5-1/4" and 6-1/2" woofers is off the hook.

features:

- Steel baskets fit standard OEM applications
- Euro-compatible design
- 19mm ceramic dome tweeters with swivel flush and surface mount harness
- Outboard passive crossovers with 12dB/octave slope



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COAXIALS

PRESSORS

C-series coaxials

offer the renowned Orion performance in easy to install standard frame sizes, and feature 3 ohm voice coils for getting the most out of your head unit or amplifier. The ceramic dome tweeters can be angled up to 15% on a 360° axis for optimal imaging and sound quality.

features:

- Steel baskets fit standard OEM applications
- 19mm ceramic swivel-mounted dome tweeters
- 3 ohm voice coils increase amplifier output by up to 33%
- Outboard passive crossovers with 12dB/octave slope



features:

A Directed Electronics exclusive for 2004, MaxxBass® is here and it bumps! MaxxBass® uses patented software-driven digital technology and exploits psycho-acoustics to substantially extend bass frequency response in virtually any application. Also returning is the venerable DEQ-30, offering state of the art digital equalization.

MaxxBass®

Generate extended bass response in systems with or without subwoofers, or compensate for missing lower octave bass response in systems with subwoofer boxes that lack good low frequency extension. Convenient 2-piece design with remote control means MaxxBass® can be mounted anywhere to fit system layout.

DEQ-30

- 30 band digital equalizer with separate left/right adjustments
- Analog and digital inputs and outputs
- C-lock anti-jitter circuit reduces digital noise
- Balanced high-frequency switching power supply

MaxxBass



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SPECIFICATIONS

AMPLIFIER	POWER OUTPUT	SIGNAL PROCESSING	FUSE SIZE	DIMENSIONS
2500D	1 x 1200 @ 4 Ohm 1 x 1700 @ 2 Ohm 1 x 2500 @ 1 Ohm	Variable low-pass 30Hz to 250Hz, variable high-pass with INTELLI Q 10Hz to 150Hz, 10dB of boost with INTELLI Q, remote gain capable, selectable AUX out	n/a	27.2" x 10.5" x 2.3" (691mm x 267mm x 58mm)
1200D	1 x 425 @ 4 Ohm 1 x 725 @ 2 Ohm 1 x 1200 @ 1 Ohm	Variable low-pass 30Hz to 250Hz, variable high-pass with INTELLI Q 10Hz to 150Hz, 10dB of boost with INTELLI Q, remote gain capable, selectable AUX out	(3) 40 ATC	18.7" x 10.5" x 2.3" (475mm x 267mm x 58mm)
600D	1 x 250 @ 4 Ohm 1 x 400 @ 2 Ohm 1 x 600 @ 1 Ohm	Variable low-pass 30Hz to 250Hz, variable high-pass with INTELLI Q 10Hz to 150Hz, 10dB of boost with INTELLI Q, remote gain capable, selectable AUX out	(1) 50 MAXI	16.4" x 10.5" x 2.3" (417 mm x 267mm x 58mm)
8002	2 x 200 @ 4 Ohm 2 x 400 @ 2 Ohm 1 x 800 @ 4 Ohm	Variable low-pass 30Hz to 3kHz, variable high-pass with INTELLI Q 10Hz to 3kHz, 10dB of boost with INTELLI Q, remote gain capable, selectable AUX out	(1) 100 MAXI	23.4" x 10.5" x 2.3" (594mm x 267mm x 58mm)
6002	2 x 150 @ 4 Ohm 2 x 300 @ 2 Ohm 1 x 600 @ 4 Ohm	Variable low-pass 20Hz to 3kHz, variable high-pass from 20Hz to 3kHz, 16dB of boost with INTELLI Bass, selectable AUX out	(1) 60 MAXI	22.4" x 10.5" x 2.3" (569mm x 267mm x 58mm)
4002	2 x 100 @ 4 Ohm 2 x 200 @ 2 Ohm 1 x 400 @ 4 Ohm	Variable low-pass 20Hz to 3kHz, variable high-pass from 20Hz to 3kHz, 16dB of boost with INTELLI Bass, selectable AUX out	(2) 20 ATC	18.4" x 10.5" x 2.3" (467mm x 267mm x 58mm)
3002	2 x 75 @ 4 Ohm 2 x 150 @ 2 Ohm 1 x 300 @ 4 Ohm	Fixed high-pass / low-pass crossover at 100Hz 16dB of boost with INTELLI Bass	(1) 30 ATC	15.2" x 10.5" x 2.3" (386mm x 267mm x 58mm)
2002	2 x 50 @ 4 Ohm 2 x 100 @ 2 Ohm 1 x 200 @ 4 Ohm	Fixed high-pass / low-pass crossover at 100Hz 16dB of boost with INTELLI Bass	(1) 25 ATC	12.4" x 10.5" x 2.3" (315mm x 267mm x 58mm)
4004	4 x 50 @ 4 Ohm 4 x 100 @ 2 Ohm 2 x 200 @ 4 Ohm	Fixed high-pass / low-pass crossover at 100Hz 16dB of boost with INTELLI Bass	(2) 30 ATC	15.9" x 10.5" x 2.3" (404mm x 267mm x 58mm)
8004	4 x 100 @ 4 Ohm 4 x 200 @ 2 Ohm 2 x 400 @ 4 Ohm	Variable low-pass 20Hz to 3kHz, variable high-pass from 20Hz to 3kHz, 16dB of boost with INTELLI Bass, selectable AUX out	(1) 100 MAXI	23.9" x 10.5" x 2.3" (607mm x 267mm x 58mm)
7005	4 x 50 @ 4 Ohm 4 x 100 @ 2 Ohm 2 x 200 @ 4 Ohm 1 x 150 @ 4 Ohm (sub ch.) 1 x 300 @ 2 Ohm (sub ch.)	Variable high-pass / low-pass from 20Hz to 3kHz variable high-pass and 10dB of boost with INTELLI Q, from 10Hz to 3kHz on sub channel	(1) 70 MAXI	24.4" x 10.5" x 2.3" (620mm x 267mm x 58mm)

*All Specifications are subject to change without notice.

SPEAKER	POWER	Fs.2	Fs.4	Qts.2	Qts.4	Vas.2	Vas.4	SENSITIVITY	LINEAR EXCURSION	DIMENSIONS
H2 15.2 / .4	2000 Watts continuous 2500 Watts peak	30Hz	33Hz	.662	.776	2.80 cu ft	2.49 cu ft	86.7 / 92.7dB	29mm	13.6875" / 9.75"
H2 12.2 / .4	2000 Watts continuous 2500 Watts peak	32Hz	38Hz	.553	.678	0.97 cu ft	0.79 cu ft	84 / 90dB	29mm	11.125" / 8"
H2 10.2 / .4	2000 Watts continuous 2500 Watts peak	34Hz	38Hz	.535	.587	0.42 cu ft	0.39 cu ft	82 / 88dB	29mm	9.125" / 7.375"
P15D2 / 4	500 Watts continuous 1000 Watts peak	29Hz	28Hz	.51	.51	3.17 cu ft	3.79 cu ft	87.6 / 93.6dB	14mm	13.875" / 6.875"
P12D2 / 4	500 Watts continuous 1000 Watts peak	27Hz	26Hz	.539	.437	1.77 cu ft	2.10 cu ft	85 / 91dB	14mm	10.9375" / 5.8125"
P10D2 / 4	500 Watts continuous 1000 Watts peak	35Hz	39Hz	.482	.538	0.61 cu ft	0.56 cu ft	83.5 / 89.5dB	14mm	9.1875" / 5.125"
C15D2 / 4	200 Watts continuous 400 Watts peak	41Hz	40Hz	.90	.90	3.08 cu ft	3.08 cu ft	89.4 / 95.4dB	10mm	13.875" / 6.75"
C12D2 / 4	200 Watts continuous 400 Watts peak	40Hz	40Hz	.558	.622	1.73 cu ft	2.16 cu ft	89 / 95dB	10mm	10.875" / 5.375"
C10D2 / 4	200 Watts continuous 400 Watts peak	40Hz	42Hz	.481	.630	1.58 cu ft	0.69 cu ft	84.9 / 90.9dB	8mm	9.0" / 4.875"

SPEAKER SET	POWER	NOMINAL IMPEDANCE	FEATURES	FREQ. RESPONSE	SENSITIVITY	DEPTH
P 6.2	100/150	4 Ohm	1" titanium dome tweeter. Surface, angled, and flush mounting hardware Included.	45Hz ~ 20kHz	90dB	3" / 76mm
P 5.2	125/175	4 Ohm	1" titanium dome tweeter. Surface, angled, and flush mounting hardware Included.	50Hz ~ 20kHz	89dB	2 5/8" / 67mm
C5.2	50/100	4 Ohm	19mm Ceramic dome tweeters	75Hz ~ 20kHz	89dB	2 3/8" / 59mm
C6.2	75/125	4 Ohm	19mm Ceramic dome tweeters	60Hz ~ 20kHz	90dB	2 3/4" / 71mm
C693	50/100	3 Ohm	Low impedance to provide 33% more power.	55Hz ~ 20kHz	91dB	3 1/8" / 80mm
C573	40/80	3 Ohm	Low impedance to provide 33% more power.	80Hz ~ 20kHz	91dB	2 3/16" / 56mm
C463	40/80	3 Ohm	Low impedance to provide 33% more power.	85Hz ~ 20kHz	91dB	2 1/4" / 57mm
C63	40/80	3 Ohm	Low impedance to provide 33% more power.	60Hz ~ 20kHz	91dB	2 7/8" / 73mm
C53	40/80	3 Ohm	Low impedance to provide 33% more power.	90Hz ~ 20kHz	91dB	2 1/4" / 57mm

ACCESSORY	DESCRIPTION	INPUT/OUTPUT	X-OVER/EQ FREQS	INPUT RANGE	DIMENSIONS
DEQ 30	30 band fully digital EQ	RCA, balanced, TOSLINK Digital, Coax digital frequencies, separate left and right	30 bands set to 1/3 octave preset Adjustments in 1 dB increments up to 12dB subwoofer outputs	30mV to 10Vrms	7.47" x 14.4" x 1.8"
MAXXBASS®	Digital bass processor	Utilizes DSP and psycho-acoustics to provide increased bass-response.	60Hz - 80Hz	30mV to 5Vrms	5" x 4" x 1"
RGC-1	Remote gain control	Utilizes the proprietary circuitry found in selected Orion amplifiers for driver accessible gain control.	n/a	n/a	n/a

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