



 **ORION**  
HIGH PERFORMANCE CAR AUDIO

**2023**

**proud to be LOUD!**

 **ORION**

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# ORION

HIGH PERFORMANCE CAR AUDIO

Orion High Performance Car Audio has a storied history in the industry, particularly due to its strong presence in sound pressure level (SPL) competitions. Our products involvement in these competitions, as well as its dedicated team and enthusiastic fan base, have led to numerous award-winning vehicles and the breaking of world records. Orion's focus on amplifiers and subwoofers has garnered significant attention for their remarkable ability to deliver extremely loud sound systems, making Orion highly coveted among audio enthusiasts. Throughout its history, Orion has consistently introduced new and innovative technologies aimed at enhancing sound quality and overall audio performance. Orion High Performance Car Audio's rich history, and reputation for groundbreaking technologies and products have solidified its position as a sought-after brand in the car audio industry.

**03 AMPLIFIERS**

**15 SUBWOOFERS**

**26 SPEAKERS**

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# HCCA CLASS-D AMPLIFIERS

HCCA amplifiers are specifically designed for high-performance and competition level applications. This is how this series received its name HCCA, High-Current Competition Amplifiers. HCCA amplifiers are known for their high current capabilities, which allows them to deliver substantial power to loud speakers. The design feature ensures that the amplifier can handle demanding loads and deliver consistent performance even under extreme conditions. HCCA amplifiers are also equipped with advanced protection circuitry to safeguard against damage and ensure the longevity of the amplifier. These protection features included thermal, short circuit and load protection.

## HCCA17000.1DSPLX

**MONO-Block Class-D Amplifier**  
**17000 Watts RMS Output**

17500 Watts @ 1 Ohms  
10500 Watts @ 2 Ohms  
6000 Watts @ 4 Ohms  
35000 Watts @ 2 Ohms LINKED  
Dimensions: (W x H x L)  
**37.79 x 3.15 x 11.89"**  
(960 x 80 x 302mm)



## HCCA12500.1DSPLX

**MONO-Block Class-D Amplifier**  
**12500 Watts RMS Output**

12700 Watts @ 1 Ohms  
7500 Watts @ 2 Ohms  
4300 Watts @ 4 Ohms  
25400 Watts @ 2 Ohms LINKED  
Dimensions: (W x H x L)  
**33.85 x 3.15 x 11.89"**  
(860 x 80 x 302mm)

## HCCA8000.1DSPLX

**MONO-Block Class-D Amplifier**  
**8000 Watts RMS Output**

8500 Watts @ 1 Ohms  
5000 Watts @ 2 Ohms  
2900 Watts @ 4 Ohms  
17000 Watts @ 2 Ohms LINKED  
Dimensions: (W x H x L)  
**24.02 x 3.15 x 11.89"**  
(610 x 80 x 302mm)

## HCCA5000.1DSPLX

**MONO-Block Class-D Amplifier**  
**5000 Watts RMS Output**

5800 Watts @ 1 Ohms  
3600 Watts @ 2 Ohms  
2300 Watts @ 4 Ohms  
11600 Watts @ 2 Ohms LINKED  
Dimensions: (W x H x L)  
**20.47 x 3.15 x 11.89"**  
(520 x 80 x 302mm)

## HCCA3000.1DSPLX

**MONO-Block Class-D Amplifier**  
**3000 Watts RMS Output**

4500 Watts @ 1 Ohms  
2800 Watts @ 2 Ohms  
1500 Watts @ 4 Ohms  
9000 Watts @ 2 Ohms LINKED  
Dimensions: (W x H x L)  
**18.89 x 3.15 x 11.89"**  
(480 x 80 x 302mm)

### SHARED SPECIFICATIONS

- 1-Ohm Mono Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Subsonic Filter Switch: 25Hz On/Off
- Linkable amplifier with identical model
- Frequency Response: 15Hz - 250Hz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 8V)
- Variable Low-Pass Crossover: 40Hz - 300Hz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.05%
- Signal-to-Noise Ratio: >90dB
- Balanced Input (CMRR)
- Damping Factor: >200
- Remote Bass Knob



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MONO BLOCK CLASS-D AMPLIFIERS





# HCCA A/B AMPLIFIERS

When it comes to performance, the HCCA A/B multi-channel amplifiers are the obvious choice to compete with the higher frequencies. The HCCA series are known for their robust construction, reliable performance and the ability to deliver powerful and clean audio reproduction.

**HCCA1500.2**  
**2-Channel Class-A/B Amplifier**  
**1500 Watts RMS Output**  
 2 x 500 Watts @ 4 Ohms  
 2 x 750 Watts @ 2 Ohms  
 1 x 1500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**15.75 x 3.15 x 11.89"**  
 (400 x 80 x 302mm)

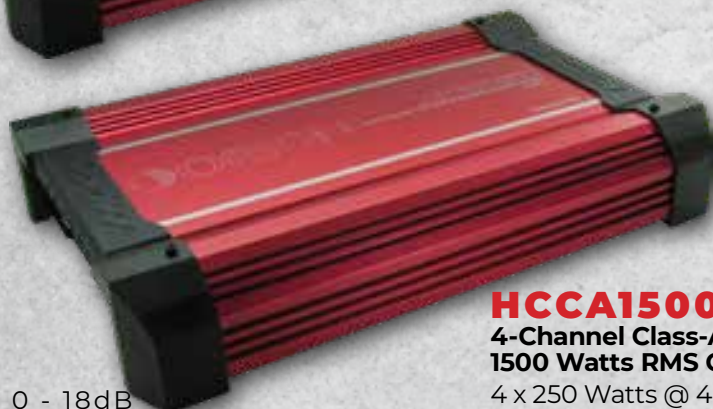
**HCCA1200.2**  
**2-Channel Class-A/B Amplifier**  
**1200 Watts RMS Output**  
 2 x 350 Watts @ 4 Ohms  
 2 x 600 Watts @ 2 Ohms  
 1 x 1200 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**15.75 x 3.15 x 11.89"**  
 (400 x 80 x 302mm)



- 2-Ohm Stereo Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Adjustable Input Sensitivity (200mV - 6V)
- Frequency Response: 20Hz - 35kHz +/- 1dB
- Variable Low-Pass Crossover: 40Hz - 300Hz
- Variable High-Pass Crossover: 40Hz - 1.25kHz / 400Hz - 12.5kHz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.005%
- Signal-to-Noise Ratio: >95dB
- Balanced Input (CMRR)
- Damping Factor: >100
- Remote Gain Function



**HCCA2000.2**  
**2-Channel Class-A/B Amplifier**  
**2000 Watts RMS Output**  
 2 x 600 Watts @ 4 Ohms  
 2 x 1000 Watts @ 2 Ohms  
 1 x 2000 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**20.47 x 3.15 x 11.89"**  
 (520 x 80 x 302mm)



**HCCA1500.4**  
**4-Channel Class-A/B Amplifier**  
**1500 Watts RMS Output**  
 4 x 250 Watts @ 4 Ohms  
 4 x 375 Watts @ 2 Ohms  
 2 x 750 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**17.32 x 3.15 x 11.89"**  
 (440 x 80 x 302mm)

**HCCA1000.4**  
**4-Channel Class-A/B Amplifier**  
**1000 Watts RMS Output**  
 4 x 150 Watts @ 4 Ohms  
 4 x 250 Watts @ 2 Ohms  
 2 x 500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**15.75 x 3.15 x 11.89"**  
 (400 x 80 x 302mm)



**HCCA2000.4**  
**4-Channel Class-A/B Amplifier**  
**2000 Watts RMS Output**  
 4 x 300 Watts @ 4 Ohms  
 4 x 500 Watts @ 2 Ohms  
 2 x 1000 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**20.47 x 3.15 x 11.89"**  
 (520 x 80 x 302mm)

# HCCA CLASS-H AMPLIFIERS

HCCA Class H amplifiers is a highly efficient amplifier by keeping the power consumption minimal when the input signals are low. By doing so it takes advantage of when the signal increases the power supply would be able to deliver even more power and aids keeping the amplifier cooler.

**HCCA3000.2H**  
**2-Channel Class-H Amplifier**  
**3000 Watts RMS Output**  
 2 x 900 Watts @ 4 Ohms  
 2 x 1500 Watts @ 2 Ohms  
 1 x 3000 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**24.02 x 3.15 x 11.89"**  
 (610 x 80 x 302mm)

**HCCA4000.4H**  
**4-Channel Class-H Amplifier**  
**4000 Watts RMS Output**  
 4 x 250 Watts @ 4 Ohms  
 4 x 375 Watts @ 2 Ohms  
 2 x 750 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**27.95 x 3.15 x 11.89"**  
 (710 x 80 x 302mm)



**HCCA3000.4H**  
**4-Channel Class-H Amplifier**  
**1000 Watts RMS Output**  
 4 x 450 Watts @ 4 Ohms  
 4 x 750 Watts @ 2 Ohms  
 2 x 1500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**24.02 x 3.15 x 11.89"**  
 (610 x 80 x 302mm)



**HCCA4000.2H**  
**2-Channel Class-H Amplifier**  
**4000 Watts RMS Output**  
 2 x 1200 Watts @ 4 Ohms  
 2 x 2000 Watts @ 2 Ohms  
 1 x 4000 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**27.95 x 3.15 x 11.89"**  
 (710 x 80 x 302mm)



## SHARED SPECIFICATIONS

- 2-Ohm Stereo Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Adjustable Input Sensitivity (200mV - 6V)
- Frequency Response: 20Hz - 35kHz +/- 1dB
- Variable Low-Pass Crossover: 40Hz - 300Hz
- Variable High-Pass Crossover: 40Hz - 1.25kHz / 400Hz - 12.5kHz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.005%
- Signal-to-Noise Ratio: >95dB
- Balanced Input (CMRR)
- Damping Factor: >100
- Remote Gain Function





# XTR CLASS-D AMPLIFIERS

The performance of the XTR Class-D amplifiers was generally well-regarded among car audio enthusiasts and professionals. These amplifiers have extraordinary power delivery where the Class-D technology allows for high power efficiency, meaning they could produce significant power with less heat generated. The design helps minimize distortion and noise, resulting in a more enjoyable listening experience. Let's not forget that the Class-D amplifiers work in tandem when paired with the identical amplifier for effectively doubling the power output and to drive the system to even higher levels of performance. The XTR series amplifiers were constructed using high-quality materials, ensuring longevity and reliability.

**XTR2500.1DZ**  
**MONO-Block Class-D Amplifier**  
**2500 Watts RMS Output**  
 2500 Watts @ 1 Ohms  
 1750 Watts @ 2 Ohms  
 1250 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**14.17 x 2.75 x 9.25"**  
 (360 x 70 x 235mm)

**XTR1500.1DZ**  
**MONO-Block Class-D Amplifier**  
**1500 Watts RMS Output**  
 1500 Watts @ 1 Ohms  
 1050 Watts @ 2 Ohms  
 750 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**11.42 x 2.75 x 9.25"**  
 (290 x 70 x 235mm)



- 1-Ohm Mono Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Subsonic Filter: 10Hz - 30Hz
- Linkable amplifier with identical model
- Frequency Response: 20Hz - 250Hz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 6V)
- Variable Low-Pass Crossover: 30Hz - 250Hz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.5%
- Signal-to-Noise Ratio: >65dB
- Soft Turn-On/Turn-Off
- Damping Factor: >200
- Remote Bass Knob

**XTR500.1D**  
**MONO-Block Class-D Amplifier**  
**500 Watts RMS Output**  
 500 Watts @ 1 Ohms  
 250 Watts @ 2 Ohms  
 125 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**7.1 x 2.75 x 9.25"**  
 (180 x 70 x 235mm)

**XTR1000.1D**  
**MONO-Block Class-D Amplifier**  
**1000 Watts RMS Output**  
 1080 Watts @ 1 Ohms  
 790 Watts @ 2 Ohms  
 510 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**8.66 x 2.75 x 9.25"**  
 (220 x 70 x 235mm)

# XTR CLASS A/B AMPLIFIERS

XTR Class A/B multi channel amplifiers are known for their superb sound quality and are commonly used in high fidelity audio systems. They strike a balance between the efficiency of Class B amplifiers and the audio performance of Class A amplifiers, making them a popular choice among Orion enthusiasts who prioritize sound quality. These amplifiers have significantly reduced distortion compared to competitors. While not as efficient as our XTR Class-D amplifiers, the multi channel Class A/B are versatile and can power a wide array of speakers, including full-range speakers and mid-range drivers.

**XTR2500.2**  
**2-Channel Class-A/B Amplifier**  
**2500 Watts RMS Output**  
 2 x 750 Watts @ 4 Ohms  
 2 x 1250 Watts @ 2 Ohms  
 1 x 2500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**21.26 x 2.75 x 9.25"**  
 (540 x 70 x 235mm)

**XTR1500.2**  
**2-Channel Class-A/B Amplifier**  
**1500 Watts RMS Output**  
 2 x 425 Watts @ 4 Ohms  
 2 x 750 Watts @ 2 Ohms  
 1 x 1500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**17.32 x 2.75 x 9.25"**  
 (440 x 70 x 235mm)



**XTR BASS KNOB**  
 Remote Gain Control for XTR Amplifiers

## SHARED SPECIFICATIONS

- 2-Ohm Stereo Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Adjustable Input Sensitivity (200mV - 6V)
- Frequency Response: 20Hz - 35kHz +/- 1dB
- Variable Low-Pass Crossover: 50Hz - 400Hz
- Variable High-Pass Crossover: 50Hz - 1.5kHz / 500Hz - 15kHz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.005%
- Signal-to-Noise Ratio: >95dB
  - Damping Factor: >100
- Remote Gain Function





# XTR CLASS A/B AMPLIFIERS

XTR Class A/B four channel performance amplifier is its versatility. With multiple channels, it allows users to connect various audio sources simultaneously, providing flexibility and convenience.

Whether you are amplifying the sound in your car or setting up a professional sound system, this amplifier caters a wide range of applications.



**XTR2500.4**  
**4-Channel Class-A/B Amplifier**  
**2500 Watts RMS Output**  
 4 x 400 Watts @ 4 Ohms  
 4 x 650 Watts @ 2 Ohms  
 2 x 1250 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**21.26 x 2.75 x 9.25"**  
 (540 x 70 x 235mm)



**XTR1000.4**  
**4-Channel Class-A/B Amplifier**  
**1000 Watts RMS Output**  
 4 x 165 Watts @ 4 Ohms  
 4 x 250 Watts @ 2 Ohms  
 2 x 500 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**14.17 x 2.75 x 9.25"**  
 (360 x 70 x 235mm)

**XTR750.4**  
**4-Channel Class-A/B Amplifier**  
**750 Watts RMS Output**  
 2 x 250 Watts @ 4 Ohms  
 2 x 375 Watts @ 2 Ohms  
 1 x 750 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**14.17 x 2.75 x 9.25"**  
 (360 x 70 x 235mm)



**XTR500.4**  
**4-Channel Class-A/B Amplifier**  
**500 Watts RMS Output**  
 4 x 90 Watts @ 4 Ohms  
 4 x 125 Watts @ 2 Ohms  
 2 x 250 Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**10.24 x 2.75 x 9.25"**  
 (260 x 70 x 235mm)

- 2-Ohm Stereo Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Adjustable Input Sensitivity (200mV - 6V)
- Frequency Response: 20Hz - 35kHz +/- 1dB
- Variable Low-Pass Crossover: 50Hz - 400Hz
- Variable High-Pass Crossover: 50Hz - 1.5kHz / 500Hz - 15kHz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.005%
- Signal-to-Noise Ratio: >95dB
  - Damping Factor: >100
- Remote Gain Function

# XTR 5-Channel AMPLIFIER

The advantage of a five-channel amplifier is that it simplifies the installation process by providing a single solution for powering an entire car audio system. It eliminates the need for multiple amplifiers, saving space and installation complexity.



**XTR1500.5**  
**5-Channel Multi-Class Amplifier**  
**4-Channels Class A/B + MONO-Block Class-D**  
**1500 Watts RMS Output**  
 TBA Watts @ 1 Ohms  
 TBA Watts @ 2 Ohms  
 TBA Watts @ 4 Ohms  
 Dimensions: (W x H x L)  
**TBA x 2.75 x 9.25"**  
 (TBA x 70 x 235mm)



## SHARED SPECIFICATIONS

- 2-Ohm Stable
- 4-Ohm Bridgeable
- 1-Ohm Mono Stable (5th Channel ONLY)
- Low Level Inputs
- Phase Shift: 0 - 180°
- Variable Bass Boost: 0 - 18dB
- Subsonic Filter Switch: 25Hz On/Off
- Frequency Response: 15Hz - 250Hz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 6V)
- Variable Low-Pass Crossover: 40Hz - 300Hz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.05%
- Signal-to-Noise Ratio: >90dB
- Balanced Input (CMRR)
- Damping Factor: >200
- Remote Bass Knob



**XTR BASS KNOB**  
 Remote Bass Knob for XTR Amplifiers





# COBALT CLASS-D AMPLIFIERS

The Orion Cobalt Class D amplifiers, also known as switching amplifiers, are a type of amplifier that have gained popularity due to their high efficiency and compact size. Unlike traditional Class A/B amplifiers, which operate in linear mode and can be less efficient. The main characteristic of Class D amplifiers is their use of pulse-width modulation to rapidly switch the output transistors on and off. This switching process allows the amplifiers to efficiently control the amount of power delivered to the load by varying the width of the pulses. The advantage of the Cobalt Class D amplifiers is achieving efficiency levels of 80% or higher. This efficiency results in less heat generation and longer operating times, making them suitable for various applications.

# COBALT MONO-BLOCK AMPLIFIER

Class A/B mono-block amplifiers are widely used in audio systems due to their excellent performance. These amplifiers offer a balance between efficiency and sound quality, making them a popular choice among audio enthusiasts. The key advantages of Class A/B mono-block amplifiers is their ability to deliver high-quality sound reproduction. This amplifier operate in two modes, Class A and Class B, allowing them to provide a clean and accurate audio signal.

## CBA4500.1D

**MONO-Block Class-D Amplifier**  
**4500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**11.3 x 2.28 x 7.09"**  
 (287 x 58 x 180mm)



## CBA1800.1M2

**MONO-Block Class-A/B Amplifier**  
**1800 Watts MAX Output**  
 Dimensions: (W x H x L)  
**9.72 x 2.28 x 7.09"**  
 (247 x 58 x 180mm)

## CBA3000.1D

**MONO-Block Class-D Amplifier**  
**3000 Watts MAX Output**  
 Dimensions: (W x H x L)  
**9.72 x 2.28 x 7.09"**  
 (247 x 58 x 180mm)

## CBA2000.1D

**MONO-Block Class-D Amplifier**  
**2000 Watts MAX Output**  
 Dimensions: (W x H x L)  
**8.94 x 2.28 x 7.09"**  
 (227 x 58 x 180mm)



## COBALT BASS KNOB

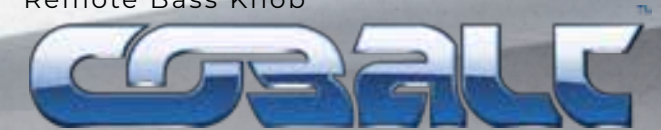
Remote Bass Knob for  
 Cobalt Amplifiers

- 1-Ohm Mono Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift Switch: 0/180°
- Variable Bass Boost: 0 - 18dB
- Subsonic Filter Switch: 25Hz Off/On
- Linkable amplifier with identical model
- Frequency Response: 10Hz - 500Hz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 6V)
- Variable Low-Pass Crossover: 15Hz - 400Hz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Total Harmonic Distortion: 0.1%
- Signal-to-Noise Ratio: >90dB
- Soft Turn-On/Turn-Off
- Remote Bass Knob

## SHARED SPECIFICATIONS

- 2-Ohm Stable
- Low Level Inputs
- Low Level Outputs
- Phase Shift Switch: 0/180°
- Variable Bass Boost: 0 - 18dB
- Subsonic Filter Switch: 25Hz Off/On
- Frequency Response: 10Hz - 30kHz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 6V)
- Variable Low-Pass Crossover: 40Hz - 250Hz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Power and Protection LED Indicator
- Total Harmonic Distortion: 0.1%
- Signal-to-Noise Ratio: >90dB
- Input Impedance: 22K Ohm
- Soft Turn-On/Turn-Off
- Remote Bass Knob

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# COBALT CLASS A/B AMPLIFIERS

The Cobalt Class A/B amplifiers are renowned for their exceptional performance quality. These amplifiers have been designed to deliver powerful and clear sound reproduction, making them a top choice for audio enthusiasts. The performance quality of Cobalt amplifiers is further enhanced by their robust construction and high-quality components. These amplifiers are built to withstand the demands of rigorous use and are designed to deliver consistent performance even under challenging conditions. The use of premium materials ensures durability and longevity, making them a worthwhile investment for any audio setup. In addition to their impressive performance, these amplifiers offer versatility in terms of channel configuration. These multi-channel amplifiers allow users to power multiple speakers or subwoofers simultaneously, providing a seamless audio experience.

# COBALT MULTI-CHANNEL AMPLIFIERS CLASS A/B

**CBA4500.2**  
**2-Channel Class-A/B Amplifier**  
**4500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**11.3 x 2.28 x 7.09"**  
 (287 x 58 x 180mm)



**CBA2500.2**  
**2-Channel Class-A/B Amplifier**  
**2500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**8.15 x 2.28 x 7.09"**  
 (207 x 58 x 180mm)



**CBA1500.2**  
**2-Channel Class-A/B Amplifier**  
**1500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**6.97 x 2.28 x 7.09"**  
 (177 x 58 x 180mm)



**CBA2500.4**  
**4-Channel Class-A/B Amplifier**  
**2500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**11.3 x 2.28 x 7.09"**  
 (287 x 58 x 180mm)



**CBA4500.4**  
**4-Channel Class-A/B Amplifier**  
**4500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**15.24 x 2.28 x 7.09"**  
 (387 x 58 x 180mm)



**CBA3500.4**  
**4-Channel Class-A/B Amplifier**  
**3500 Watts MAX Output**  
 Dimensions: (W x H x L)  
**12.87 x 2.28 x 7.09"**  
 (327 x 58 x 180mm)

## SHARED SPECIFICATIONS

- 2-Ohm Stable
- 4-Ohm Bridged Stable
- Low Level Inputs
- Low Level Outputs
- Variable Bass Boost: 0-12dB
- Frequency Response: 10Hz - 30kHz +/- 2.5dB
- Adjustable Input Sensitivity (200mV - 6V)
- Variable Low-Pass Crossover: 40Hz - 500Hz
- Variable High-Pass Crossover: 50Hz - 1.2kHz
- 4-Way Protection Circuitry: Thermal, Short Circuit, Under Voltage and Over-Voltage
- Power and Protection LED Indicator
- Total Harmonic Distortion: 0.1%
- Signal-to-Noise Ratio: >90dB
- Input Impedance: 22K Ohm
- Soft Turn-On/Turn-Off

**CBA2000.4**  
**4-Channel Class-A/B Amplifier**  
**2000 Watts MAX Output**  
 Dimensions: (W x H x L)  
**10.91 x 2.28 x 7.09"**  
 (277 x 58 x 180mm)





# HCCA SPLX SUBWOOFERS

The Orion HCCA SPLX Woofers: The Epitome of Competition Technology, Performance, and Build Quality. When it comes to car audio systems, enthusiasts seek nothing but the best in terms of sound quality and performance. In this regard, Orion HCCA SPLX Woofers have established themselves as a leading choice among competitors alike. These woofers are a testament to the commitment to innovation, ensuring an unparalleled experience. One of the key features that sets Orion HCCA SPLX Woofers apart is their cutting-edge competition technology. Designed with precision and expertise, these woofers are engineered to deliver exceptional low frequencies. Professional competitors use these woofers and offer unmatched performance that will satisfy even the most discerning ears.



## HCCA121SPLX / HCCA122SPLX 12" SPLX SERIES SUBWOOFER

Power Handling: 7500 Watts RMS  
Peak Handling: 30000 Watts MAX  
Frequency Response: 21Hz – 500Hz  
690 oz. Triple-Stacked Magnets  
Efficiency: 83dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 13.66" (347mm)  
Through Hole: 11.5" (292mm)  
Diameter: 12.83" (326mm)  
Available in:  
Dual 2-ohm or Dual 1-ohm



## HCCA181SPLX / HCCA182SPLX 18" SPLX SERIES SUBWOOFER

Power Handling: 7500 Watts RMS  
Peak Handling: 30000 Watts MAX  
Frequency Response: 21Hz – 500Hz  
690 oz. Triple-Stacked Magnets  
Efficiency: 85dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 18.39" (467mm)  
Through Hole: 17.91" (455mm)  
Diameter: 19.69" (500mm)  
Available in:  
Dual 2-ohm or Dual 1-ohm



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## HCCA151SPLX / HCCA152SPLX 15" SPLX SERIES SUBWOOFER

Power Handling: 7500 Watts RMS  
Peak Handling: 30000 Watts MAX  
Frequency Response: 21Hz – 500Hz  
690 oz. Triple-Stacked Magnets  
Efficiency: 88dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 14.96" (380mm)  
Through Hole: 15.08" (383mm)  
Diameter: 16.69" (424mm)  
Available in:  
Dual 2-ohm or Dual 1-ohm



### SHARED SPECIFICATIONS

- Black Coil Series
- Dual Voice Coils
- High Temp Voice Coils
- Polypropylene Cone Woofer
- Rubber Tri-Radius Symmetrical Surround
- Dual Flat Conex Spiders with Loop Stitched Tinsel Leads
- Enhanced Voice Coil Cooling System
- High-Temperature PAARC (Polyester Amide, Amide Resin Coated) Voice Coil
- Copper Wound Voice Coil on an Aluminum Former
- Reinforced Heavy Duty Cast Basket
- Field Replaceable Cone, Voice Coil and Faraday Cage
- Patent Technology



# HCCA SPL SUBWOOFERS

The Orion HCCA SPL series is specifically tailored to cater to the needs and desires of car audio enthusiasts and competitors who are in search of unparalleled output and exceptional sound quality for their competitions. This series has been meticulously crafted to possess a remarkably high sensitivity, enabling it to generate substantial bass even with a relatively moderate power delivery. The components incorporated in the SPL series are constructed using nothing but premium materials, ensuring the utmost quality and performance. One exemplary illustration of this is the implementation of Advanced Cooling Technology in the construction of the woofers. This ingenious technology has been employed to prevent overheating during prolonged high-power usage, employing advanced cooling mechanisms like vented pole pieces and heat-dissipating material. The woofers themselves have become a groundbreaking audio component, revolutionizing the realm of car audio systems. One of the standout features that distinguishes the HCCA SPL woofer from its competitors is its patented cast basket design. This innovative design not only contributes to the overall durability of the woofer but also enhances its overall performance.

# HCCA

COMPETITION

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## SHARED SPECIFICATIONS

- Black Coil Series
- Dual Voice Coils
- High Temp Voice Coils
- Polypropylene Cone Woofer
- Rubber Tri-Radius Symmetrical Surround
- Dual Flat Conex Spiders with Loop Stitched Tinsel Leads
- Enhanced Voice Coil Cooling System
- High-Temperature PAARC (Polyester Amide, Amide Resin Coated) Voice Coil
- Copper Wound Voice Coil on an Aluminum Former
- Reinforced Heavy Duty Cast Basket
- Field Replaceable Cone, Voice Coil and Spider Assembly
- Faraday Cage
- Patent Technology

### HCCA151SPL / HCCA152SPL / HCCA154SPL 15" SPL SERIES SUBWOOFER

Power Handling: 5000 Watts RMS  
Peak Handling: 20000 Watts MAX  
Frequency Response: 21Hz – 500Hz  
690 oz. Triple-Stacked Magnets  
Efficiency: 87dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 12.047" (306mm)  
Through Hole: 15.07" (383mm)  
Diameter: 16.61" (422mm)  
Available in:  
Dual 4-ohm Dual 2-ohm or Dual 1-ohm

 **ORION**  
HIGH PERFORMANCE CAR AUDIO



# HCCA SUBWOOFERS

The Orion HCCA series are a remarkable addition to the world of car audio systems. Designed with precision and expertise, these woofers offer unparalleled sound quality and performance. The Orion HCCA Woofers ensures durability and strength. Made from high-quality materials, the cast basket provides a solid foundation for the woofer, allowing it to withstand the rigors of daily use. This robust construction also helps in minimizing vibrations and resonance, resulting in cleaner and more accurate sound reproduction. One of the standout features of the Orion HCCA Woofers is the triple stack magnet. This powerful magnet system is designed to provide exceptional magnetic flux density, allowing for greater control over the woofer's movement. With increased control, the woofer can accurately reproduce low-frequency sounds with precision and clarity, enhancing the overall listening experience.

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HIGH PERFORMANCE CAR AUDIO

## HCCA152 / HCCA154 15" HCCA SERIES SUBWOOFER

Power Handling: 2500 Watts RMS  
Peak Handling: 10000 Watts MAX  
Frequency Response: 21Hz - 500Hz  
445 oz. Triple-Stacked Magnets  
Efficiency: 87dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 11.575" (294mm)  
Through Hole: 15.07" (383mm)  
Diameter: 16.61" (422mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm



## HCCA102 / HCCA104 10" HCCA SERIES SUBWOOFER

Power Handling: 2000 Watts RMS  
Peak Handling: 8000 Watts MAX  
Frequency Response: 21Hz - 500Hz  
264 oz. Triple-Stacked Magnets  
Efficiency: 87dB  
3" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 8.425" (214mm)  
Through Hole: 9.37" (238mm)  
Diameter: 10.57" (269mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm



## HCCA122 / HCCA124 12" HCCA SERIES SUBWOOFER

Power Handling: 2000 Watts RMS  
Peak Handling: 8000 Watts MAX  
Frequency Response: 21Hz - 500Hz  
445 oz. Triple-Stacked Magnets  
Efficiency: 84dB  
4" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 10.28" (261mm)  
Through Hole: 11.5" (292mm)  
Diameter: 12.78" (325mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm



### SHARED SPECIFICATIONS

- Black Coil Series
- Dual Voice Coils
- High Temp Voice Coils
- Polypropylene Cone Woofer
- Rubber Tri-Radius Symmetrical Surround
- Dual Flat Conex Spiders with Loop Stitched Tinsel Leads
- Enhanced Voice Coil Cooling System
- High-Temperature PAARC (Polyester Amide, Amide Resin Coated) Voice Coil
- Copper Wound Voice Coil on an Aluminum Former
- Reinforced Heavy Duty Cast Basket
- Field Replaceable Cone, Voice Coil and Spider Assembly
- Faraday Cage
- Patent Technology



# XTR PRO SUBWOOFERS

When you think of the XTR PRO Subwoofer Series, think of powerhouses, It's like the heavyweight champions of the sound realm, delivering deep and powerful bass that you can feel in your bones. But it's not just about the boom; it's about the precision, the accuracy that makes every note crystal clear, every beat perfectly timed. These subwoofers are built to last through all the musical adventures you throw at them. Whether it's the thumping bass of your favorite hip-hop track or the delicate melodies of a classical composition, these subwoofers handle it all with grace. It's like they have a sixth sense for understanding sound and turning it into an immersive experience that wraps around you. When you power up the XTRPRO subwoofers, you're not just listening to music – you're diving into a world of sound that's richer, deeper, and more captivating than you've ever experienced before.

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## **XTRPRO152D / XTRPRO154D** 15" XTR PRO SERIES SUBWOOFER

Power Handling: 2000 Watts RMS  
Peak Handling: 8000 Watts MAX  
Frequency Response: 20Hz – 500Hz  
176 oz. Triple Stack Ceramic Magnets  
Efficiency: 90dB  
2.5" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 8.54" (217mm)  
Through Hole: 13.59" (345mm)  
Diameter: 15.43" (392mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm



## **XTRPRO122D / XTRPRO124D**

### 12" XTR PRO SERIES SUBWOOFER

Power Handling: 1500 Watts RMS  
Peak Handling: 6000 Watts MAX  
Frequency Response: 20Hz – 500Hz  
55 oz. Double Stack Ceramic Magnets  
Efficiency: 87dB  
3" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 6.22" (158mm)  
Through Hole: 10.91" (277mm)  
Diameter: 12.56" (319mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm



## SHARED SPECIFICATIONS

- Dual Voice Coils
- Black Coil Series
- Tri-cooling system
- Polypropylene Dust Cap
- Dual Interlaced Spiders with Loop Stitched Tinsel Leads
- Enhanced Voice Coil Cooling System
- UV and Moisture Treated Paper Cone
- Symmetrical tuned long-throw surround
- Copper Wound Voice Coil on an Aluminum Former
- Reinforced Heavy Duty Cast Basket
- Field Replaceable Cone, Voice Coil and Spider Assembly
- Advanced forced convection cooling system
- Patent Technology

## **XTRPRO102D / XTRPRO104D** 10" XTR PRO SERIES SUBWOOFER

Power Handling: 1250 Watts RMS  
Peak Handling: 5000 Watts MAX  
Frequency Response: 20Hz – 500Hz  
44 oz. Double Stack Ceramic Magnets  
Efficiency: 84dB  
2.5" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 5.31" (135mm)  
Through Hole: 9.1" (230mm)  
Diameter: 10.67" (271mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm





# XTR SUBWOOFER

When it comes to audio systems, achieving optimal sound quality and performance is paramount. This is where ORION XTR woofers come into play, revolutionizing the audio industry with their cutting-edge technology. With features like a proprietary stamped basket, ceramic magnet, and treated cone, these woofers deliver an unparalleled audio experience. One of the standout features of ORION XTR woofers is their proprietary stamped basket. This unique design provides exceptional rigidity and strength, allowing for precise control over the speaker's movement. By minimizing unwanted vibrations and resonances, the stamped basket ensures that the sound produced is clean, accurate, and free from distortions. This results in a more immersive listening experience, where every beat and note can be heard with remarkable clarity.



## **XTR152D / XTR154D** 15" XTR SERIES SUBWOOFER

Power Handling: 750 Watts RMS  
Peak Handling: 3000 Watts MAX  
Frequency Response: 20Hz – 500Hz  
176 oz. Double Stack Ceramic Magnets  
Efficiency: 90dB  
2.5" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 8.54" (217mm)  
Through Hole: 13.59" (345mm)  
Diameter: 15.43" (392mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm

## **XTR102D / XTR104D** 10" XTR SERIES SUBWOOFER

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 20Hz – 500Hz  
44 oz. Ceramic Magnet  
Efficiency: 85dB  
2" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 5.31" (135mm)  
Through Hole: 9.1" (230mm)  
Diameter: 10.67" (271mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm

## **XTR122D / XTR124D** 12" XTR SERIES SUBWOOFER

Power Handling: 600 Watts RMS  
Peak Handling: 2400 Watts MAX  
Frequency Response: 20Hz – 500Hz  
55 oz. Double Stack Ceramic Magnets  
Efficiency: 87dB  
2.5" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 6.22" (158mm)  
Through Hole: 10.91" (277mm)  
Diameter: 12.56" (319mm)  
Available in:  
Dual 4-ohm or Dual 2-ohm

## **SHARED SPECIFICATIONS**

- Dual Voice Coils
- Ceramic Magnets
- PVC Magnet Protection
- Polypropylene Dust Cap
- Kapton voice coil former
- PVC Proprietary Trim Ring
- High Temp Copper Voice Coils
- Spring Loaded Push Terminals
- Proprietary Stamped Steel Basket
- Enhanced Voice Coil Cooling System
- UV and Moisture Treated Paper Cone
- Santoprene Surround for Linear Control
- Oversize Nitrile-butadiene rubber surround
- Steel back plate/pole piece T yoke assembly
- Interlaced Conex Spider with Stitched and Looped Tinsel Leads

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# COBALT SUBWOOFERS

The Cobalt Subwoofers have undergone a remarkable transformation, emerging as smarter, stronger, and more dynamic bass companions. They feature an innovative coil that handles high temperatures with ease, maintaining top-notch performance even during intense musical moments. With these subwoofers, you're not just listening to music; you're experiencing it in a whole new way. They provide a thrilling ride through vibrant beats and powerful bass that resonates deep within. Offering both single and dual voice coil options, they empower you to customize your audio setup. In the world of car audio enthusiasts, the Cobalt Subwoofers shine as symbols of excellence, delivering a sonic journey that's both captivating and electrifying. These subwoofers don't just play music; they elevate it to an art form, connecting you with the true essence of sound.

## CBW124S / CBW124D 12" COBALT SERIES SUBWOOFER

Power Handling: 400 Watts RMS  
Peak Handling: 1600 Watts MAX  
Frequency Response: 35Hz – 250Hz  
50 Oz. Double Stack Ceramic Magnets  
Efficiency: 88.3dB  
2" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 5.61" (142.5mm)  
Through Hole: 10.91" (277mm)  
Diameter: 12.44" (316mm)  
Available in:  
Single 4-ohm / Dual 4-ohm

## CBW104S / CBW104D 10" COBALT SERIES SUBWOOFER

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 39Hz – 250Hz  
50 Oz. Double Stack Ceramic Magnets  
Efficiency: 86.7dB  
2" High Temp Voice Coils  
Mounting Dimensions:  
Depth: 5.22" (132.5mm)  
Through Hole: 9.13" (232mm)  
Diameter: 10.28" (261mm)  
Available in:  
Single 4-ohm / Dual 4-ohm

# COBALT

### SHARED SPECIFICATIONS

- Polypropylene Dust Cap
- Interlaced Conex Spider
- 3-stage vented back plate
- Nickel Plated Push Terminals
- Stitched and Looped Tinsel Leads
- High Temperature Copper Voice Coil with Kapton Former
- Enhanced Voice Coil Cooling System
- UV and Moisture Treated Paper Cone
- Heavy Gauged Stamped Steel Basket
- Oversize Nitrile-Butadiene Rubber Surround

# HCCA HIGH-EFFICIENCY MIDRANGE SPEAKERS

The HCCA HIGH-EFFICIENCY Midrange Speaker stands as a pinnacle of audio engineering. With its cast basket and neodymium magnet, it promises unparalleled performance that defines excellence. Born from our commitment to innovation, these midrange speakers deliver an exceptional audio experience. The cast basket ensures robustness, while the neodymium magnet infuses power and precision. Moreover, the CCAW voice coil further refines sound quality, ensuring every musical nuance is captured. Boasting high efficiency, these speakers truly shines in optimizing energy use without compromising on sonic brilliance. Whether you're a music enthusiast or a professional, the HCCA HIGH-EFFICIENCY Midrange Speaker encapsulates the art of sound, presenting a harmonious blend of technology and craftsmanship.

## HCCA1054NHP / HCCA1058NHP 10" PRO AUDIO MIDRANGE SPEAKER

Power Handling: 700 Watts RMS  
Peak Handling: 2800 Watts MAX  
Frequency Response: 116Hz – 5.5kHz  
Efficiency: 99.4dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.86" (98mm)  
Through Hole: 9.21" (234mm)  
Diameter: 10.43" (265mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

## HCCA854NHP / HCCA858NHP 8" PRO AUDIO MIDRANGE SPEAKERS

Power Handling: 650 Watts RMS  
Peak Handling: 2600 Watts MAX  
Frequency Response: 107Hz – 9kHz  
Efficiency: 99.4dB  
2.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.19" (81mm)  
Through Hole: 7.24" (184mm)  
Diameter: 8.46" (215mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## HCCA654NHP / HCCA658NHP 6.5" PRO AUDIO MIDRANGE SPEAKERS

Power Handling: 450 Watts RMS  
Peak Handling: 1800 Watts MAX  
Frequency Response: 116Hz – 5.5kHz  
Efficiency: 99.2dB  
2" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.7" (68.5mm)  
Through Hole: 5.75" (146mm)  
Diameter: 7.01" (178mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair



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### SHARED SPECIFICATIONS

- Neodymium Magnet
- Nomex Progressive Spider
- Loop Stitched Tinsel Leads
- Billet Aluminum Phase Plug
- Spring Loaded Push Terminals
- Proprietary Coated Cast Basket
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround

# HCCA

COMPETITION



## HCCA BULLET PRO MIDRANGE SPEAKERS

The Orion HCCA Bullet Pro Midrange speakers are a high-performance audio solution designed to deliver exceptional midrange sound reproduction. These speakers boast a cast basket for stability and durability, complemented by a neodymium magnet for strong magnetic properties in a compact form. Their push-down nickel-plated terminals ensure reliable and corrosion-resistant connections. With flat loop stitched tinsel leads

for efficient power handling, these speakers are built to last. The progressive Nomex spider enhances control over speaker movement, particularly at higher volumes, while the cloth accordion surround provides flexibility and durability. Overall, the Orion HCCA Midrange Pro speakers are a top choice for car audio enthusiasts seeking clear and powerful midrange audio performance.

### HCCA104N / HCCA108N 10" PRO AUDIO MIDRANGE SPEAKER

Power Handling: 550 Watts RMS  
Peak Handling: 2200 Watts MAX  
Frequency Response: 105Hz – 12kHz  
Efficiency: 101.3dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.9" (99mm)  
Through Hole: 9.21" (234mm)  
Diameter: 10.24" (260mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

### HCCA84N / HCCA88N 8" PRO AUDIO MIDRANGE SPEAKERS

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 110Hz – 12kHz  
Efficiency: 99.9dB  
2.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.19" (81mm)  
Through Hole: 7.17" (182mm)  
Diameter: 8.23" (209mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

### HCCA64N / HCCA68N 6.5" PRO AUDIO MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 130Hz – 12kHz  
Efficiency: 99.2dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.65" (67.2mm)  
Through Hole: 5.75" (146mm)  
Diameter: 6.85" (174mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## HCCA DUST CAP PRO MIDRANGE SPEAKERS

The HCCA Dust Cap Pro Midrange Speakers is a true masterpiece in the realm of sound. With its cast basket and neodymium magnet, this midrange delivers outstanding performance that's hard to match. Created with audio innovation, these midrange speakers is a true game-changer.

The cast basket not only enhances its durability but also contributes to its overall strength, ensuring it can handle the demands of high-quality music. The neodymium magnet adds a touch of magic, enhancing its projection and power. To top it off, the CCAW voice coil provides an extra layer of precision to the sound, making every note and beat come alive. Whether you're a music lover or a audiophile seeking top-tier audio, the HCCA Dust Cap Pro Midrange Speaker is a testament to our commitment to excellence and the art of sound.

### HCCA104DCN / HCCA108DCN 10" PRO DUST CAP MIDRANGE SPEAKER

Power Handling: 550 Watts RMS  
Peak Handling: 2200 Watts MAX  
Frequency Response: 105Hz – 12kHz  
Efficiency: 101.3dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.9" (99mm)  
Through Hole: 9.21" (234mm)  
Diameter: 10.24" (260mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

### HCCA84DCN / HCCA88DCN 8" PRO DUST CAP MIDRANGE SPEAKERS

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 110Hz – 12kHz  
Efficiency: 99.9dB  
2.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.19" (81mm)  
Through Hole: 7.17" (182mm)  
Diameter: 8.23" (209mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

### HCCA64DCN / HCCA68DCN 6.5" PRO DUST CAP MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 130Hz – 12kHz  
Efficiency: 99.2dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.65" (67.2mm)  
Through Hole: 5.75" (146mm)  
Diameter: 6.85" (174mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## SHARED SPECIFICATIONS

- Neodymium Magnet
- Nomex Progressive Spider
- Loop Stitched Tinsel Leads
- Spring Loaded Push Terminals
- Proprietary Coated Cast Basket
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround

**HCCA**  
COMPETITION

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- Neodymium Magnet
- Nomex Progressive Spider
- Loop Stitched Tinsel Leads
- Billet Aluminum Phase Plug
- Spring Loaded Push Terminals
- Proprietary Coated Cast Basket
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround



# XTR BULLET PRO AUDIO SPEAKERS

XTR High-Efficiency Midrange speakers use a variety of technologies. The High-Efficiency Midrange speakers feature cutting-edge components like a billet aluminum bullet phase plug, a robust cast basket, a high-temperature CCAW voice coil, and a wide frequency response. These elements work in harmony to enhance sound quality, reduce distortion, ensure durability, and accommodate a broad range of music genres. Additionally, the high sensitivity makes them ideal for mobile audio systems, producing ample sound despite their size. The wide frequency response of these speakers is a key advantage. It means that they can faithfully reproduce an extensive range of frequencies accommodating various music genres and intricate musical compositions.



- Strontium Ferrite Magnet
- Flat Stitched Tinsel Leads
- Nomex Progressive Spider
- Billet Aluminum Phase Plug
- Spring Loaded Push Terminals
- Proprietary Coated Cast Basket
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround

## **XTX1054 / XTX1058** 10" XTR MIDRANGE SPEAKER

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 100Hz – 6kHz  
120 Oz Strontium Ferrite Magnet  
Efficiency: 99.9dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 4.21" (107mm)  
Through Hole: 9.02" (229mm)  
Diameter: 10.24" (260mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

## **XTX854 / XTX858** 8" XTR MIDRANGE SPEAKERS

Power Handling: 400 Watts RMS  
Peak Handling: 1600 Watts MAX  
Frequency Response: 130Hz – 12kHz  
88 Oz Strontium Ferrite Magnet  
Efficiency: 98.5dB  
2" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.58" (91mm)  
Through Hole: 7.24" (184mm)  
Diameter: 8.46" (215mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## **XTX654 / XTX658** 6.5" XTR MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 140Hz – 12kHz  
40 Oz Strontium Ferrite Magnet  
Efficiency: 97dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.95" (75mm)  
Through Hole: 5.75" (146mm)  
Diameter: 7.01" (178mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

# XTR DUST CAP PRO AUDIO SPEAKERS

The DC Midrange Speakers are designed for enduring audio excellence. Their sturdy foundation lies in a cast basket forged from molten metal, ensuring a resilient and vibration-resistant frame. This single-piece metal construction not only enhances structural integrity but also shields delicate components like the voice coil, prolonging the speaker's lifespan while improving sound quality. Adding to their protective features, these speakers boast a treated paper cone and dust cap, preventing debris from compromising internal components.



## **XTX1054DC / XTX1058DC** 10" XTR MIDRANGE SPEAKER

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 100Hz – 6kHz  
120 Oz Strontium Ferrite Magnet  
Efficiency: 99.9dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 4.21" (107mm)  
Through Hole: 9.02" (229mm)  
Diameter: 10.24" (260mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

## **XTX854DC / XTX858DC** 8" XTR MIDRANGE SPEAKERS

Power Handling: 400 Watts RMS  
Peak Handling: 1600 Watts MAX  
Frequency Response: 150Hz – 12kHz  
88 Oz Strontium Ferrite Magnet  
Efficiency: 98.5dB  
2" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.58" (91mm)  
Through Hole: 7.24" (184mm)  
Diameter: 8.46" (215mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## **XTX654DC / XTX658DC** 6.5" XTR MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 140Hz – 12kHz  
40 Oz Strontium Ferrite Magnet  
Efficiency: 97dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.95" (75mm)  
Through Hole: 5.75" (146mm)  
Diameter: 7.01" (178mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## SHARED SPECIFICATIONS

- Strontium Ferrite Magnet
- Flat Stitched Tinsel Leads
- Nomex Progressive Spider
- Spring Loaded Push Terminals
- Proprietary Coated Cast Basket
- UV and Moisture Treated Dust Cap
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround





# XTR SHALLOW NEO PRO AUDIO SPEAKERS

Orion's Shallow High-Efficiency Midrange Speakers are not just speakers. They are a gateway to an extraordinary sonic realm that promises an unparalleled fusion of power and clarity. These speakers transcend their physical form, transforming your audio experience into something truly transformative. With a carefully designed 4-ohm impedance, these speakers are built to last. Their inner workings are a testament to precision, with a robust high-temperature CCAW voice coil and an influential neodymium magnet. This dynamic combination ensures unwavering durability and exceptional quality, no matter what challenges your journey may bring. With meticulous craftsmanship, unwavering durability, and exceptional quality, these speakers guarantee that your musical encounters will be nothing short of extraordinary. So, embark on this audio journey and let these speakers be your guide to a realm of sound that is both captivating and transformative.



## **XTR804NEO** 8" XTR MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 105Hz – 10kHz  
Efficiency: 92.5dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.19" (81mm)  
Through Hole: 7.24" (184mm)  
Diameter: 8.46" (215mm)  
Available in: 4-ohm  
Sold as Pair

## **XTR654NEO** 6.5" XTR MIDRANGE SPEAKERS

Power Handling: 300 Watts RMS  
Peak Handling: 1200 Watts MAX  
Frequency Response: 128Hz – 10kHz  
Efficiency: 91.7dB  
1.5" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 2.7" (68.5mm)  
Through Hole: 5.75" (146mm)  
Diameter: 7.01" (178mm)  
Available in: 4-ohm  
Sold as Pair

- Shallow Basket
- Poly Cotton Spider
- Neodymium Magnet
- Flat Stitched Tinsel Leads
- Billet Aluminum Phase Plug
- Riveted Plated Spaded Terminals
- High Temperature CCAW Voice Coil
- UV Treated Non Pressed Paper Cone
- UV Treated Accordion Cloth Surround
- Heavy Gauged Proprietary Stamped Steel Basket

# XTR SHALLOW FERRITE PRO AUDIO SPEAKERS

The Orion XTR SHALLOW Series speakers are all about turning up the volume – in the most fantastic way! These speakers are built tough, ready to take on any challenge you throw their way, and they don't flinch. Whether you're cranking up your favorite jams to the max or pushing their limits, these speakers handle it all without even breaking a sweat. Their durability is matched by their impressive performance, thanks to advanced speaker engineering. But it's not just about the sound; it's also about making a statement. The XTR SHALLOW Series speakers are designed to not only impress your ears but also catch your eyes. And with their high efficiency, they make the most out of every bit

of power, ensuring your music shines bright. So, when you choose the Orion XTR SHALLOW Series speakers, you're not just getting speakers – you're getting a ticket to an audio experience that's both powerful and captivating.



## **XSM805SL** 8" XTR MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 130Hz – 20kHz  
Efficiency: 98dB  
2" CCAW Voice Coil  
82 Oz Strontium Ferrite Magnet  
Mounting Dimensions:  
Depth: 3.19" (81mm)  
Through Hole: 7.17" (182mm)  
Diameter: 8.23" (209mm)  
Available in: 4-ohm  
Sold as Pair

## **XSM655SL** 6.5" XTR MIDRANGE SPEAKERS

Power Handling: 300 Watts RMS  
Peak Handling: 1200 Watts MAX  
Frequency Response: 170Hz – 20kHz  
Efficiency: 97.2dB  
1.5" CCAW Voice Coil  
66 Oz Strontium Ferrite Magnet  
Mounting Dimensions:  
Depth: 2.65" (67.2mm)  
Through Hole: 5.75" (146mm)  
Diameter: 6.85" (174mm)  
Available in: 4-ohm  
Sold as Pair

## SHARED SPECIFICATIONS

- Slim Depth Basket
- Poly Cotton Spider
- Strontium Ferrite Magnet
- Riveted Spaded Terminals
- Billet Aluminum Phase Plug
- High Temperature CCAW Voice Coil
- Heavy Gauged Stamped Steel Basket
- UV Treated Non Pressed Paper Cone
- UV Treated Accordion Cloth Surround





# XTR PRO MID-BASS AUDIO SPEAKERS

The Orion Mid-Bass Speakers are renowned for impressive performance. Available in sizes from 6.5 inches to 10 inches, these speakers feature a paper cone designs known for their natural sound reproduction. They are lightweight and rigid, which allows them to move quickly and accurately, producing clear, detailed sound. Their

versatile sizing allows for various installation options, making them suitable for enhancing audio quality. Combining the Orion Mid-Bass Speakers with a cast basket for vibration can further improve their performance. A cast basket is made of a solid piece of metal, which makes it more rigid and resistant to vibration than a stamped steel basket. This can help to improve the speakers' clarity and accuracy by reducing distortion caused by vibration.



**PROUD TO BE LOUD!**



- Poly Cotton Spider
- Plated Spaded Terminals
- Strontium Ferrite Magnet
- Billet Aluminum Phase Plug
- Proprietary Coated Cast Basket
- High Temperature CCAW Voice Coil
- UV and Moisture Treated Non Pressed Paper Cone
- UV and Moisture Treated Cloth Accordion Surround

## XPM1054MBF / XPM1058MBF 10" MID-BASS SPEAKER

Power Handling: 750 Watts RMS  
Peak Handling: 3000 Watts MAX  
Frequency Response: 140Hz – 5.5kHz  
128 Oz Strontium Ferrite Magnet  
Efficiency: 101.4dB  
3" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 4.21" (112mm)  
Through Hole: 9.02" (229mm)  
Diameter: 10.24" (260mm)  
Available in: 4-ohm or 8-ohm  
Sold Individually

## XPM854MBF / XPM858MBF 8" MID-BASS SPEAKERS

Power Handling: 500 Watts RMS  
Peak Handling: 2000 Watts MAX  
Frequency Response: 200Hz – 6kHz  
92 Oz Strontium Ferrite Magnet  
Efficiency: 100.2dB  
2" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 4.41" (97.5mm)  
Through Hole: 7.24" (184mm)  
Diameter: 8.46" (215mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

## XPM654MBF / XPM658MBF 6.5" MID-BASS SPEAKERS

Power Handling: 400 Watts RMS  
Peak Handling: 1600 Watts MAX  
Frequency Response: 230Hz – 9kHz  
54 Oz Strontium Ferrite Magnet  
Efficiency: 99.1dB  
2" CCAW Voice Coil  
Mounting Dimensions:  
Depth: 3.28" (83.2mm)  
Through Hole: 5.75" (146mm)  
Diameter: 7.01" (178mm)  
Available in: 4-ohm or 8-ohm  
Sold as Pair

# COBALT MID-BASS PRO AUDIO SPEAKERS

## CMB1054PRO 10" MID-BASS SPEAKER

Power Handling: 350 Watts RMS  
Peak Handling: 1500 Watts MAX  
Frequency Response: 90Hz – 6kHz  
41 Oz Strontium Ferrite Magnet  
Efficiency: 98.1dB  
2" Voice Coil  
Mounting Dimensions:  
Depth: 4.09" (104mm)  
Through Hole:  
Diameter: 10.12" (257mm)  
Available in: 4-ohm  
Sold Individually

## CMB85PRO 8" MID-BASS SPEAKER

Power Handling: 175 Watts RMS  
Peak Handling: 700 Watts MAX  
Frequency Response: 75Hz – 7kHz  
20 Oz Strontium Ferrite Magnet  
Efficiency: 94dB  
1.5" Voice Coil  
Mounting Dimensions:  
Depth: 3.5" (89mm)  
Through Hole: 7.72" (196mm)  
Diameter: 8.27" (210mm)  
Available in: 4-ohm  
Sold Individually

The COBALT MID-BASS is a high-performance speaker that features a poly cotton cone with a Nomex spider. This cone provides good linearity and damping, resulting in accurate sound reproduction. The speaker also has a high-temperature voice coil former. This voice coil can handle high power levels without distortion.



## CMB65PRO 6.5" MID-BASS SPEAKER

Power Handling: 150 Watts RMS  
Peak Handling: 600 Watts MAX  
Frequency Response: 90Hz – 6kHz  
20 Oz Strontium Ferrite Magnet  
Efficiency: 94dB  
1.5" Voice Coil  
Mounting Dimensions:  
Depth: 2.87" (73mm)  
Through Hole: 6.06" (154mm)  
Diameter: 6.58" (167mm)  
Available in: 4-ohm  
Sold Individually



- Poly Cotton Spider
- Riveted Spaded Terminals
- Strontium Ferrite Magnet
- High Temperature Voice Coil
- UV Treated Non Pressed Paper Cone
- UV Treated Accordion Cloth Surround
- Heavy Gauged Coated Steel Basket

**SHARED SPECIFICATIONS**

# COBALT MIDRANGE SPEAKERS

## CM105 10" MIDRANGE SPEAKERS

Power Handling: 350 Watts RMS  
Peak Handling: 1400 Watts MAX  
Frequency Response: 120Hz – 10kHz  
30 Oz Strontium Ferrite Magnet  
Efficiency: 98dB  
2" Voice Coil  
Mounting Dimensions:  
Depth: 4.27" (108.5mm)  
Through Hole: 8.46" (215mm)  
Diameter: 10.06" (255.7mm)  
Available in: 4-ohm  
Sold Individually

The Midrange Speakers has a heavy gauged stamped steel basket and a bullet phase plug. The basket is designed to be strong and rigid, which helps to improve the speaker's performance. The bullet phase plug helps to improve the speaker's dispersion, resulting in a wider sound stage.

## CM85 8" MIDRANGE SPEAKERS

Power Handling: 300 Watts RMS  
Peak Handling: 1200 Watts MAX  
Frequency Response: 100Hz – 10kHz  
30 Oz Strontium Ferrite Magnet  
Efficiency: 97.4dB  
1.5" Voice Coil  
Mounting Dimensions:  
Depth: 3.49" (88.7mm)  
Through Hole: 7.26" (184.5mm)  
Diameter: 8.24" (209.4mm)  
Available in: 4-ohm  
Sold as Pair

## CM65 6.5" MIDRANGE SPEAKERS

Power Handling: 250 Watts RMS  
Peak Handling: 1000 Watts MAX  
Frequency Response: 120Hz – 10kHz  
20 Oz Strontium Ferrite Magnet  
Efficiency: 96.67dB  
1.5" Voice Coil  
Mounting Dimensions:  
Depth: 2.84" (72.2mm)  
Through Hole: 5.67" (144mm)  
Diameter: 6.54" (166mm)  
Available in: 4-ohm  
Sold as Pair



- Poly Cotton Spider
- Riveted Spaded Terminals
- Strontium Ferrite Magnet
- Billet Aluminum Phase Plug
- UV Non Pressed Paper Cone
- High Temperature Voice Coil
- UV Treated Accordion Cloth Surround
- Heavy Gauged Coated Steel Basket

**SHARED SPECIFICATIONS**



# BULLET TWEETERS

Bullet tweeters are a type of tweeter that is designed to produce high-frequency sound waves and offer a number of advantages over other types of tweeters. They are small, which makes them easy to install. They also have a wide dispersion pattern, which means that they can produce sound evenly throughout the listening area. Additionally, bullet tweeters are often very efficient, which means that they can produce a lot with minimal amount of power.

## HCCA TN1 4.5" Super Neodymium Tweeter

Aluminum Diaphragm W/Flex Ring  
Neodymium Magnet  
1.5" High-Temperature Voice Coil  
175W RMS | 700W Max Power  
Frequency Response: 2000-28.5kHz  
Efficiency: 118dB  
Sold Individually



## HCCA TN2 4.5" Super Neodymium Tweeter

Aluminum Diaphragm W/Flex Ring  
Neodymium Magnet  
1.5" High-Temperature Voice Coil  
200W RMS | 800W Max Power  
Frequency Response: 2000-28.5kHz  
Efficiency: 118dB  
Sold Individually



**COMING  
SOON**

## HCCA 100NE Super Neodymium Tweeter

Aluminum Diaphragm W/Flex Ring  
Neodymium Magnet  
\*\* High-Temperature Voice Coil  
TBA RMS | TBA Max Power  
Frequency Response: TBA  
Efficiency: TBA  
Sold Individually

## HCCA 150NE Super Neodymium Tweeter

Aluminum Diaphragm W/Flex Ring  
Neodymium Magnet  
\*\*\* High-Temperature Voice Coil  
TBA RMS | TBA Max Power  
Frequency Response: TBA  
Efficiency: TBA  
Sold Individually

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# XTR COMPRESSION DRIVERS

Compression Horn Drivers featuring Titanium Diaphragms and Ceramic Magnets are distinguished by their remarkable attributes and specifications. These drivers stand out due to their precision-engineered titanium diaphragms, which offer exceptional rigidity and the ability to faithfully reproduce high-frequency sounds.

Additionally, the inclusion of ceramic magnets with potent magnetic fields enhances efficiency and ensures rapid and accurate sound wave production. Their compression horn design further extends their utility, allowing for efficient sound projection over extended distances, making them ideal for large venues and outdoor settings.

## XDK01PB 1.75" Compression Driver

Titanium Diaphragm  
1.75" CCAW Voice Coil  
29 Oz Ceramic Magnet  
150 W RMS | 600W Max Power  
Frequency Response: 900-17kHz  
Efficiency: 119dB  
90°(H) x 45°(V)  
Sold Individually

## XDK02PS 1.75" Compression Driver

Titanium Diaphragm  
1.75" CCAW Voice Coil  
33 Oz Ceramic Magnet  
175 W RMS | 700W Max Power  
Frequency Response: 1000-25kHz  
Efficiency: 119.2dB  
45°(H) x 45°(V)  
Sold Individually

## XDK04.2AS 1.75" Compression Driver

Titanium Diaphragm  
3" CCAR Voice Coil  
76 Oz Ceramic Magnet  
300 W RMS | 1200W Max Power  
Frequency Response: 650-19.5kHz  
Efficiency: 120.5dB  
45°(H) x 45°(V)  
Sold Individually

## XDK03PS 1.75" Compression Driver

Titanium Diaphragm  
1.75" CCAW Voice Coil  
33 Oz Ceramic Magnet  
175 W RMS | 700W Max Power  
Frequency Response: 1000-25kHz  
Efficiency: 117dB  
60°(H) x 40°(V)  
Sold Individually

## XTW950FD 4.5" Super Bullet Tweeter

Aluminum Diaphragm W/Flex Ring  
15 Oz Strontium Ferrite Magnet  
1.5" High-Temperature Voice Coil  
150 W RMS | 600W Max Power  
Frequency Response: 3000-25.6kHz  
Efficiency: 111.8dB  
Sold Individually

## XTW750FD 4.5" Super Bullet Tweeter

Aluminum Diaphragm  
14 Oz Strontium Ferrite Magnet  
1.75" High-Temperature Voice Coil  
140 W RMS | 560W Max Power  
Frequency Response: 1500-25kHz  
Efficiency: 109.9dB  
Sold Individually

## XTW250FD 3.4" Super Bullet Tweeter

Aluminum Diaphragm  
9 Oz Strontium Ferrite Magnet  
1" High-Temperature Voice Coil  
80 W RMS | 320W Max Power  
Frequency Response: 2000-25kHz  
Efficiency: 104dB  
Sold Individually

## XTR350HP 3.4" Super Bullet Tweeter

Aluminum Diaphragm  
15 Oz Strontium Ferrite Magnet  
1" High-Temperature Voice Coil  
125 W RMS | 500W Max Power  
Frequency Response: 3000-25.6kHz  
Efficiency: 114.25dB  
Sold as Pair

## XTW350NE 3.2" Super Neodymium Tweeter

Aluminum Diaphragm  
Neodymium Magnet  
1" High-Temperature Voice Coil  
110 W RMS | 440W Max Power  
Frequency Response: 2000-25kHz  
Efficiency: 112dB  
Sold as Pair





## CTW880H 6.3" x 4.7" Aluminum Die-Cast Bullet Horn

Aluminum Diaphragm  
20 Oz. Strontium Ferrite Magnet  
1.75" High-Temperature Voice Coil  
130 W RMS | 520W Max Power  
Frequency Response: 2000-25kHz  
Efficiency: 112dB  
Sold Individually



## CTW500 4.5" Super Bullet Tweeter

Aluminum Diaphragm  
30 Oz. Strontium Ferrite Magnet  
1.75" High-Temperature Voice Coil  
130 W RMS | 520W Max Power  
Frequency Response: 2000-20kHz  
Efficiency: 104dB  
Sold Individually



## CTW200 3.7" Super Bullet Tweeter

Aluminum Diaphragm  
30 Oz. Strontium Ferrite Magnet  
1.1" High-Temperature Voice Coil  
65 W RMS | 260W Max Power  
Frequency Response: 2000-20kHz  
Efficiency: 104dB  
Sold Individually



## CTW1.7HP 3.8" Super Tweeter

Aluminum Diaphragm  
15 Oz. Strontium Ferrite Magnet  
1.1" High-Temperature Voice Coil  
75 W RMS | 300W Max Power  
Frequency Response: 3500-23kHz  
Efficiency: 104.9dB  
Sold as Pair



## CTW125 3.9" Bullet Tweeter

Aluminum Diaphragm  
20 Oz. Strontium Ferrite Magnet  
1.1" High-Temperature Voice Coil  
50 W RMS | 200W Max Power  
Frequency Response: 2000-25kHz  
Efficiency: 98.7dB  
Sold as Pair



## CTW2.0NEO 3.8" Super Tweeter

Aluminum Diaphragm  
Neodymium Magnet  
1.1" High-Temperature Voice Coil  
100 W RMS | 400W Max Power  
Frequency Response: 3500-26kHz  
Efficiency: 106.5dB  
Sold as Pair



## CTW150 3.8" Super Bullet Tweeter

Aluminum Diaphragm  
15 Oz. Strontium Ferrite Magnet  
1.1" High-Temperature Voice Coil  
65 W RMS | 260W Max Power  
Frequency Response: 3500-23kHz  
Efficiency: 107.99dB  
Sold as Pair



## CTW101 3.75" Bullet Tweeter

Aluminum Diaphragm  
20 Oz. Strontium Ferrite Magnet  
1.1" High-Temperature Voice Coil  
50 W RMS | 200W Max Power  
Frequency Response: 2000-25kHz  
Efficiency: 99dB  
Sold as Pair



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## HCCA COMPONENT SPEAKER SYSTEMS

Introducing the Orion HCCA Component Speaker System, where sound quality and performance reach new heights, making it the ideal choice for discerning audiophiles. This anticipated system comprises a two way component system that includes a 12dB external crossover network and all the necessary mounting hardware.

The woofers in the Orion HCCA component system are meticulously crafted. This innovative blend of materials not only ensures remarkable durability but also guarantees unparalleled sound quality. The inclusion of robust and rigidity to the cone, while the surround brings flexibility and effective damping into play. The result is a remarkable ability to produce deep, resonant midbass.

The tweeters in the Orion HCCA component system is renowned for its ability to deliver exceptionally smooth and accurate high-frequency sounds. Unlike other tweeter types, these tweeters replicate a broader range of frequencies, contributing to a soundstage that is not only immersive but also remarkably true to life.

At the heart of the HCCA component system is its 12dB external crossover, meticulously engineered to divide high and low frequencies with precision. This ensures that each speaker handles the sounds it is best suited for, resulting in a harmonious audio experience. What's more, the crossover includes tweeter level adjustments, allowing you to fine-tune the soundstage to your unique preferences.

Every element of the Orion HCCA Component Speaker System is meticulously crafted with top-tier components, including copper clad aluminum wire voice coils and neodymium magnets. The copper clad aluminum wire voice coils outshine traditional copper counterparts in terms of both durability and efficiency. Meanwhile, the inclusion of neodymium magnets, known for their impressive power-to-weight ratio, ensures that these speakers can handle high power levels without a hint of distortion.

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COMPETITION

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# XTR FULL-RANGE SPEAKERS

The XTR Coaxial speakers offer a wide range of speaker sizes to meet diverse market demands, enhancing your vehicles experience. Precision-crafted with quality materials and advanced technologies, such as a heavy-gauge steel frame, these speakers not only ensure durability but also contribute significantly to overall performance by reducing vibrations and ensuring secure mounting. Our speakers are the ideal choice for those in search of pristine and accurate sound while on the road.

## **XTR57.2** 5x7" 2-WAY FULL-RANGE SPEAKER

Power Handling: 75 Watts RMS  
Peak Handling: 300 Watts MAX  
Frequency Response: 80Hz - 22kHz  
Efficiency: 91dB  
Mounting Depth: 2.17" (55mm)



## **XTR65.3** 6.5" 3-WAY FULL-RANGE SPEAKER

Power Handling: 100 Watts RMS  
Peak Handling: 400 Watts MAX  
Frequency Response: 85Hz - 22kHz  
Efficiency: 91dB  
Mounting Depth: 2.32 (59mm)



## **XTR65.2SL** 6.5" 2-WAY SHALLOW FULL-RANGE SPEAKER

Power Handling: 125 Watts RMS  
Peak Handling: 500 Watts MAX  
Frequency Response: 85Hz - 22kHz  
Efficiency: 89dB  
Mounting Depth: 2.32 (59mm)



## **XTR69.3** 6x9" 3-WAY FULL-RANGE SPEAKER

Power Handling: 100 Watts RMS  
Peak Handling: 400 Watts MAX  
Frequency Response: 55Hz - 22kHz  
Efficiency: 93dB  
Mounting Depth: 3.31" (84mm)



## **XTR52.2** 5.25" 2-WAY FULL-RANGE SPEAKER

Power Handling: 75 Watts RMS  
Peak Handling: 300 Watts MAX  
Frequency Response: 85Hz - 22kHz  
Efficiency: 89dB  
Mounting Depth: 2.36" (60mm)



## **XTR46.2** 4x6" 2-WAY FULL-RANGE SPEAKER

Power Handling: 65 Watts RMS  
Peak Handling: 250 Watts MAX  
Frequency Response: 90Hz - 22kHz  
Efficiency: 88dB  
Mounting Depth: 2.01" (51mm)



## **XTR40.2** 4" 2-WAY FULL-RANGE SPEAKER

Power Handling: 65 Watts RMS  
Peak Handling: 250 Watts MAX  
Frequency Response: 120Hz - 22kHz  
Efficiency: 87.5dB  
Mounting Depth: 1.89" (48mm)



## **XTR35.2** 3.25" 2-WAY FULL-RANGE SPEAKER

Power Handling: 40 Watts RMS  
Peak Handling: 160 Watts MAX  
Frequency Response: TBA  
Efficiency: TBA  
Mounting Depth: TBA



## **XTR275.2** 2.75" 2-WAY FULL-RANGE SPEAKER

Power Handling: 40 Watts RMS  
Peak Handling: 160 Watts MAX  
Frequency Response: TBA  
Efficiency: TBA  
Mounting Depth: TBA



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# XTR COMPONENT SPEAKER SYSTEMS

The XTR 2-Way Component Speaker System boasts a range of standout features that elevate its audio performance. At the heart of these speakers are silk dome tweeters, known for their ability to render high-frequency sounds with exceptional smoothness and precision, enhancing audio clarity and detail. These speakers are further equipped with a 12dB passive crossover, a critical component that directs the appropriate frequencies to the respective drivers, preventing distortion and ensuring a seamless transition between the tweeter and other speaker components.



## **XTR65.SC** 6.5" 2-WAY COMPONENT SYSTEM

Power Handling: 115 Watts RMS  
Peak Handling: 450 Watts MAX  
Frequency Response: 75Hz – 22kHz  
Efficiency: 93dB  
Mounting Depth: 2.32" (59mm)  
Tweeter Mounting Depth: 3.49" (88.7mm)

## **XTR55.SC** 5.25" 2-WAY COMPONENT SYSTEM

Power Handling: 65 Watts RMS  
Peak Handling: 350 Watts MAX  
Frequency Response: 80Hz – 22kHz  
Efficiency: 90dB  
Mounting Depth: 2.36" (60mm)  
Tweeter Mounting Depth: 3.49" (88.7mm)

## **XTR1.00TW** 1" SILK DOME TWEETER

Power Handling: 50 Watts RMS  
Peak Handling: 200 Watts MAX  
Frequency Response: 1500Hz – 20kHz  
Efficiency: 90dB  
Mounting Depth: 1" (25mm)



# COBALT COMPONENT SPEAKER SYSTEMS

Cobalt Component Speakers are the perfect fusion of thoughtful design and exceptional performance. At their core, these speakers feature a meticulously engineered cone that plays a pivotal role in delivering precise and clear sound reproduction. The components hardware and materials, ensure that these speakers operate reliably even under demanding conditions. What sets these speakers apart is their versatility, Whether you desire a seamless, integrated appearance or require surface-mounted speakers for specific installation needs, these speakers provide the flexibility to tailor your audio system.



## **CB65C** 6.5" 2-WAY COMPONENT SYSTEM

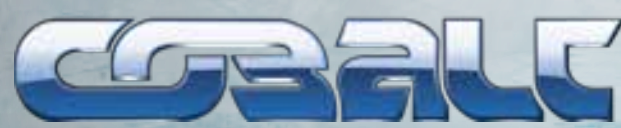
Power Handling: 95 Watts RMS  
Peak Handling: 400 Watts MAX  
Frequency Response: 60Hz – 20kHz  
Efficiency: 92.3dB  
Mounting Depth: 2.36" (60mm)  
Tweeter Mounting Depth: 3.49" (88.7mm)

## **CB525C** 5.25" 2-WAY COMPONENT SYSTEM

Power Handling: 75 Watts RMS  
Peak Handling: 300 Watts MAX  
Frequency Response: 80Hz – 20kHz  
Efficiency: 91dB  
Mounting Depth: 1.85" (47mm)  
Tweeter Mounting Depth: 3.49" (88.7mm)

## **CB1TW** 1" SILK DOME TWEETER

Power Handling: 50 Watts RMS  
Peak Handling: 200 Watts MAX  
Frequency Response: 2000Hz – 20kHz  
Efficiency: 90.8dB  
Mounting Depth: 0.74" (18.8mm)





# COBALT FULL-RANGE SPEAKERS

The Cobalt Series Coaxial Speakers are highly regarded for their exceptional combination of flexibility, durability, and performance. A key element in these speakers is the inclusion of a butyl rubber surround, which not only enhances their flexibility for accurate sound reproduction but also adds durability by making them resilient against wear and tear. These speakers provide a listening experience that truly stands out.

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**COBALT**

## **CB52** 5.25" 2-WAY FULL-RANGE SPEAKER

Power Handling: 40 Watts RMS  
Peak Handling: 200 Watts MAX  
Frequency Response: 90Hz - 20kHz  
Efficiency: 87.1dB  
Mounting Depth: 1.85" (47mm)

## **CB693** 6x9" 3-WAY FULL-RANGE SPEAKER

Power Handling: 80 Watts RMS  
Peak Handling: 400 Watts MAX  
Frequency Response: 55Hz - 20kHz  
Efficiency: 88.8dB  
Mounting Depth: 2.95" (75mm)

## **CB683** 6x8" 3-WAY FULL-RANGE SPEAKER

Power Handling: 60 Watts RMS  
Peak Handling: 300 Watts MAX  
Frequency Response: 75Hz - 2kHz  
Efficiency: 91dB  
Mounting Depth: 2.17" (55mm)

## **CB653** 6.5" 3-WAY FULL-RANGE SPEAKER

Power Handling: 50 Watts RMS  
Peak Handling: 250 Watts MAX  
Frequency Response: 62Hz - 20kHz  
Efficiency: 88.2dB  
Mounting Depth: 2.36" (60mm)

## **CB462** 4x6" 2-WAY FULL-RANGE SPEAKER

Power Handling: 40 Watts RMS  
Peak Handling: 200 Watts MAX  
Frequency Response: 110Hz - 20kHz  
Efficiency: 86.5dB  
Mounting Depth: 2.09" (53mm)

## **CB42** 4" 2-WAY FULL-RANGE SPEAKER

Power Handling: 40 Watts RMS  
Peak Handling: 200 Watts MAX  
Frequency Response: 120Hz - 20kHz  
Efficiency: 86.2dB  
Mounting Depth: 1.81" (46mm)

## **CB35** 4" 2-WAY FULL-RANGE SPEAKER

Power Handling: 30 Watts RMS  
Peak Handling: 150 Watts MAX  
Frequency Response: 120Hz - 20kHz  
Efficiency: 86.2dB  
Mounting Depth: 1.81" (46mm)