

BRONZE SERIES



PRELIMINARY DEVELOPMENT INFORMATION | FEB 2015



OVERVIEW

Whilst there may be a passing similarity to the multi-award winning Bronze BX, the new Bronze has undergone substantial re-designed; ushering in new driver technologies and increased levels of performance. Trickle down technology from Monitor Audios' high-end speaker development appear in areas where sonic improvements can be made, regardless of Bronze being an entry level range.

At the heart of new Bronze is a new breed of C-CAM® drivers with concave 'dished' cones. These new cone profiles yield a much stronger cone design, whilst remaining incredibly light. Demonstrable levels of control within the diaphragm break up region results in higher resolution, with smoother overall tonality. The aluminium voice coil former is connected to the cone via a thermally conductive coupling, which conducts heat away from the voice coil using the cone as a heat-sink. The thermal conduction effects increase power handling and ensure the system is kept cool and optimised at all volume levels.

A new 25mm C-CAM Gold Dome tweeter has been developed to further increase level of clarity and precision. Internal vents designed into the housing allow air to flow freely around the outside of the magnet system into a large rear loading chamber, resulting in lower resonance and better overall damping. The sound is therefore much more accurate at low frequencies and free from distortions that can normally be associated with trapped air being compressed at the back of the dome. Structural improvements in the dome geometry and driving mechanism have also given way to reduction in high frequency break up and improved high frequency extension.

Single bolt through driver technology is employed again to enhance cabinet rigidity by providing additional bracing, whilst maintaining consistent tension for the driver. This in turn reduces excessive vibration from the driver and cabinet together, giving lower colorations across the entire the frequency spectrum. HiVe® port design is incorporated (except center, FX and W10 models) to provide clean powerful bass and superior transient response. Polypropylene film capacitors, air core and laminated steel core inductors have been utilized to maintain the best possible signal

integrity. All models in the Bronze range demonstrate smoother overall presentation which can be directly attributed to lower levels of distortion exhibited in the new driver designs. With slightly higher overall impedance than their predecessors, the new Bronze ensures great flexibility and wider choice of partnering equipment.

The traditionally accomplished aesthetic design is complemented by driver cones moving to a more sophisticated steel grey finish, creating a more grown up presentation. Stylish magnetic grilles have no visible fixings and provide clean overall visuals, adding to the simplicity and refinement of the smooth overall appearance. The new Bronze blends 'best in class' performance with a more grown up, mature appearance; to raise the bar further for what can be expected from an entry level speaker.

NEW BRONZE 'ONE'

The compact new Bronze 'One' features a 5½" C-CAM bass/mid-range driver and C-CAM tweeter in a highly respected two-way configuration. Despite being regarded as the entry level offering, the diminutive Bronze 'One' has now been optimised and tuned to provide the most accurate sounding speaker of any previous generation, propelling it into the realms of true Monitor status. The surprisingly small 5½" bass driver has been optimized to out-perform a larger driver and results in cleaner, more dynamic delivery, even at high power levels. They're able to play louder and deeper than they really should be capable of. Understanding the space constraints in modern living spaces, the Bronze 'One' has been designed to be positioned relatively close to a wall, and optimised for smaller room environments. The Bronze 'One' is perfect for stand, shelf or wall mounted using Monitor Audios' Universal wall mount bracket (UWB)

- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- New 5½" bass driver with concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- HiVe port technology for better transient response and tighter bass – Due to smoother air-flow
- All drivers feature single bolt through driver systems, for increased overall bracing, rigidity and driver/baffle de-coupling
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF construction throughout, employing radial and cross-bracing techniques for high rigidity resulting in low cabinet coloration
- Invisible magnetic grille fixing provides clean visual styling when used with the grille off
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah
- ¼"x20 TPI thread for wall mount bracket options (optional Universal wall mount bracket – UWB)
<http://ca2.monitoraudiocdn.com/downloads/other-documentation/ma-speaker-mount.pdf?mtime=20140826143911>

NEW BRONZE 'TWO'

Stepping up to a larger 6 ½" C-CAM bass driver, things start to get serious. Indeed the new Bronze 'Two' has to be incredible to outperform the multi-award winning predecessors. Renowned for its serious audiophile credentials, the Bronze 'Two' builds on the strength of its predecessors by improving bass definition and a staggering reduction of colorations in the sonic character. The sophisticated Bronze 'Two' delivers incredibly neutral balance and high resolution, demonstrating the accomplished design it's now grown up to be. Higher overall efficiency and power handling creates amazing scale and effortless dynamic headroom to deliver contrast in the music as it should be heard. Thanks to its front firing HiVe reflex port, the larger two-way design will perform best mounted on a stand and placed up to 8" (20cm) from a wall. The scale and sheer room filling ability of the Bronze 'Two' makes it suited to medium sized rooms.

- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- New 6½" bass driver with concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- Front firing HiVe port technology for better transient response and tighter bass – Due to smoother air-flow
- All drivers feature single bolt through driver systems, for increased overall bracing, rigidity and driver/baffle de-coupling.
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF construction throughout, employing radial and cross-bracing techniques for high rigidity resulting in low cabinet coloration
- Invisible magnetic grille fixing provides clean visual styling when used with the grille off
- Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

NEW BRONZE 'FIVE'

The new Bronze incorporates a 5½" C-CAM bass driver and 5½" C-CAM bass/mid driver in a two and half way system configuration. The two drivers operate in separate acoustic chambers within the enclosure design to provide differential tuning; this provides higher efficiency whilst also improving low frequency extension. The slender Bronze 'Five' delivers powerful, responsive bass lines that belie its stealthy appearance and surpass those of many much larger towers. Front and rear located HiVe ports provide the user with the ability to tune the bass to the room and ensure tight, accurate bass is assured. The Bronze 'Five' is ideally suited to medium sized rooms, yet would easily fill a larger room with incredible scale, when driven with a good quality amplifier or as part of a home theatre system.

- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- 5½" bass driver and 5½" bass/mid-range with concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- Two and a half way configuration with differentially tuned acoustic system - higher efficiency and improved low frequency extension
- HiVe port technology for better transient response and tighter bass – Due to smoother air-flow
- All drivers feature single bolt through driver systems, for increased overall bracing, rigidity and driver/baffle de-coupling
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF construction throughout, employing radial and cross-bracing techniques for high rigidity resulting in low cabinet coloration
- Invisible magnetic grille fixing provides clean visual styling when used with the grille off
- Terminal panel located at floor level for easy termination and neat cable access with Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

NEW BRONZE 'SIX'

The flagship Bronze 'Six' ushers in a trio of larger 6 ½" C-CAM bass drivers configured in a two and half way format. Unfortunately, the laws of physics can only be bent so far and the powerful combination of large cabinet and triple driver array delivers a powerful combination of scale and dynamics that simply cannot be matched by smaller speakers. The two bass drivers work in the majority of available cabinet air load, whilst the mid-range unit operates in a small, tightly sealed and well damped chamber. This increases mid-range clarity by allowing the driver to be optimized for its application. Bass drivers are developed for long throw duties and are free to delivering seismic levels of bass extension and yet remain composed throughout the most dramatic pieces of music or film. The Bronze 'Six' is ideally suited to larger sized rooms with a little space to breathe in order to get the best possible performance.

- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- Optimised 6 ½" mid-range working in a small, sealed enclosure– creating amazingly clear and precise mid-range clarity with incredibly low levels of distortion
- Dual 6 ½" bass drivers featuring concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- Two and a half way configuration with differentially tuned acoustic system - higher efficiency and improved low frequency extension
- HiVe port technology for better transient response and tighter bass – Due to smoother air-flow
- All drivers feature single bolt through driver systems, for increased overall bracing, rigidity and driver/baffle de-coupling
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF construction throughout, employing radial and cross-bracing techniques for high rigidity resulting in low cabinet coloration
- Invisible magnetic grille fixing provides clean visual styling when used with the grille off
- Terminal panel located at floor level for easy termination and neat cable access with Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

NEW BRONZE 'CENTRE'

The compact Bronze 'centre' features twin 5½" C-CAM bass/mid-range drivers arranged in an M-T-M (D'Appolito) type configuration. Married to a new C-CAM gold dome tweeter the Bronze 'centre' delivers articulate dialogue and crisp dynamics to music videos and film. The new Bronze 'centre' has been carefully tuned to match the timbre of the other Bronze series speakers, resulting in a consistent sonic character across the front channels.

- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- Dual 5½" bass/midrange drivers with concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- Two-way M-T-M (D'Appolito) in a Sealed cabinet configuration for accurate performance when installed in cabinet, restricted voids or close to a wall
- Single bolt through driver systems, for increased overall bracing, rigidity and driver/baffle de-coupling
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF construction throughout, employing radial and cross-bracing techniques for high rigidity resulting in low cabinet coloration
- Invisible magnetic grille fixing provides clean visual styling when used with the grille off
- Acoustically matched to Bronze speaker systems for excellent imaging and consistency of timbre in surround applications
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

NEW BRONZE 'FX'

The discreet profile and angled baffle design of the new Bronze 'FX', incorporates a single 5½" C-CAM bass/ mid driver flanked by two C-CAM gold dome tweeters. Angled side panels help to create a wider sound-field and spread effects around the room more effectively. The 'FX' can be flush-mounted on side or rear walls to blend unobtrusively with any interior, and its dispersion characteristics can be changed at the flick of a switch to accommodate the precise requirements for di-pole or bi-pole orientation in multi-channel system installations.

- Flush to wall placement, with recessed termination
- Angled baffles to create the a wide spread of sound for improved delivery of surround effects
- Optimized for di-pole or bi-pole operation by the simple flick of a switch located on the rear terminal panel
- New C-CAM gold dome tweeter design with damped rear chamber and innovative dome venting technique - improved clarity and wider operating bandwidth
- 5½" bass/mid-range driver with concave 'dished' C-CAM cone profile - better damping and improved mid-range clarity
- Single bolt through driver system, for increased overall bracing and rigidity
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Acoustically matched with all other Bronze speakers for excellent imaging and consistency of timbre in surround applications
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

NEW BRONZE 'W10' SUBWOOFER

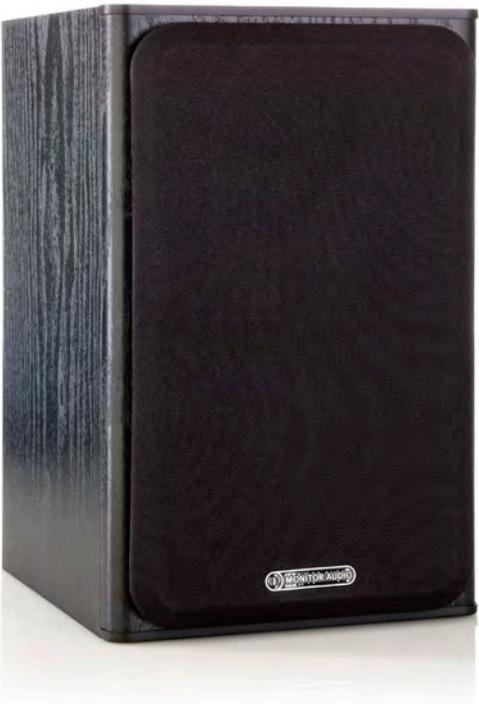
The sophisticated Bronze 'W10' subwoofer is a complete ground up re-design, featuring completely new amplifier design, powerful DSP processing and new long throw driver design. A powerful Class D amplifier delivers huge amounts of dynamic headroom, by utilizing advanced Switch-mode power conversion techniques. The power supply is design to deliver a much higher continuous rating, providing tight grip and huge amounts of power reserves when called upon. The DSP parameters have been tuned to ensure the driver can never be fed with an overdriven signal and ensures the driver remains composed, even at the extremes of its capabilities. A 10" ABR is discreetly mounted on the cabinet base and adopted this time to augment the low frequencies and deliver higher output. Taking up the same foot-print as its predecessor, the compact W10 delivers an incredible 6dB more SPL at 40Hz than its predecessor. Pre-set EQ settings allow the user to dial in the preferred parameter for music, movie or impact.

- Ultra long throw 10" driver featuring concave 'dished' C-CAM cone. Increased magnet motor size to deliver higher output and improved control
- 10" flat panel ABR (auxiliary bass driver) mounted on the bottom to augment low frequency extension and power handling
- Powerful Class-D Amplifier delivering over 200 Watts with low distortion
- Switch Mode power supply, designed to deliver continuous rating - Provides instantaneous delivery of high current when required
- DSP processing with all control features and crossover performed in the digital domain
- Three pre-set EQ mode settings (Music, Movie, Impact)
- 12volt trigger - provides switching control from A.V amp, processor or home automation control system
- 18mm thick M.D.F construction
- Heavy cabinet bracing applied to provide stiff, low resonance cabinet
- Premium quality vinyl veneer finishes - Black Oak, White Ash, Walnut, Rosemah.

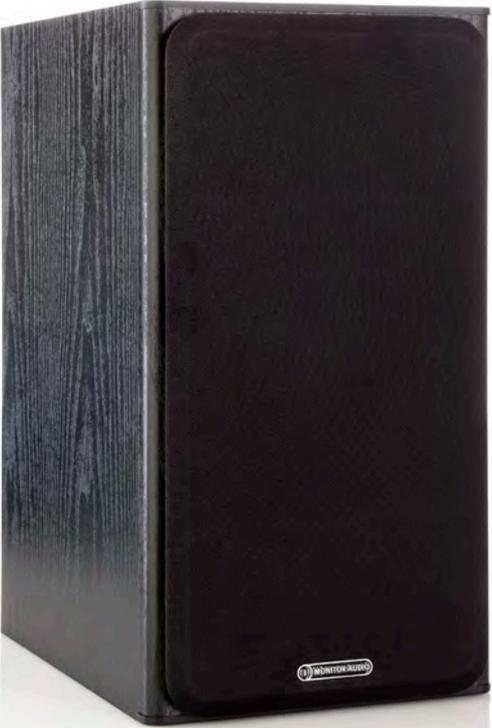
	BRONZE 1	BRONZE 2	BRONZE 5	BRONZE 6	BRONZE CENTRE	BRONZE FX
System Format	2 Way	2 Way	2 ^{1/2} Way	2 ^{1/2} Way	2 Way	2 Way
Frequency Response (-6dB – IEC 268-13)	55 Hz - 30 KHz	42 Hz - 30 KHz	37 Hz - 30 KHz	34 Hz - 30 KHz	60 Hz - 30 KHz	65 Hz - 30 KHz
Sensitivity (1W@1M)	87dB	90dB	90dB	90dB	90dB	87dB
Maximum SPL (dBA @1M – each)	105	110	111	111	111	105
Nominal Impedance (Ohms)	8	8	8	8	8	8
Power Handling R.M.S (W)	70	100	120	150	120	70
Recommended Amp Requirements R.M.S (W)	20-70	30-100	30-120	60-150	30-120	20-70
Cabinet Design	Rear ported Bass reflex. HiVe® Port technology	Front ported Bass reflex. HiVe Port technology	Dual chamber bass reflex – Ported front and rear. HiVe Port technology	Dual chamber bass reflex – Ported front and rear. HiVe Port technology	Sealed Cabinet	Sealed Cabinet
Drive Unit Complement	1 x 5 ^{1/2} " C-CAM® Bass/mid-range, 1 x 25mm Gold Dome C-CAM tweeter	1 x 6 ^{1/2} " C-CAM Bass mid-range, 1 x 25mm Gold Dome C-CAM tweeter	1 x 5 ^{1/2} " C-CAM Bass, 1 x 5 ^{1/2} " C-CAM Bass mid-range, 1 x 25mm Gold Dome C-CAM tweeter	2 x 6 ^{1/2} " C-CAM Bass, 1 x 6 ^{1/2} " C-CAM Bass mid-range, 1 x 25mm Gold Dome C-CAM tweeter	2 x 5 ^{1/2} " C-CAM Bass mid-range, 1 x 25mm Gold Dome C-CAM tweeter	1 x 5 ^{1/2} " C-CAM Bass mid-range, 2 x 25mm Gold Dome C-CAM tweeter
Crossover Frequency	3.2kHz	3.2kHz	LF: -6dB @ 400Hz MF/HF: 3.2kHz	LF: -6dB @ 600Hz MF/HF: 3.4kHz	3.2kHz	2.2kHz
External dimensions (H x W x D)	260 x 165 x 180mm 10 ^{1/4} x 6 ^{1/2} x 7 ^{1/16} in.	350 x 185 x 255mm 13 ^{3/4} x 7 ^{5/16} x 10 ^{1/16} in.	850 x 166 x 248mm (868 x 215 x 282mm inc plinth) 33 ^{7/16} x 6 ^{9/16} x 9 ^{3/4} in. (34 ^{3/16} x 8 ^{7/16} x 11 ^{1/8} in. inc plinth)	985 x 185 x 315mm (1003 x 235 x 350mm inc plinth) 38 ^{3/4} x 7 ^{5/16} x 12 ^{3/8} in. (39 ^{1/2} x 9 ^{1/4} x 13 ^{3/4} in. inc plinth)	166 x 460 x 165mm 6 ^{9/16} x 18 ^{1/8} x 6 ^{1/2} in.	287 x 276 x 105mm 11 ^{5/16} x 10 ^{7/8} x 4 ^{1/8} in. (118mm / 4 ^{5/8} in. deep inc grille & bracket)
Weight (each)	3.86kg (8.5lb)	5.84kg (12.8lb)	12kg (26.4lb)	18.25kg (40.2lb)	6.18kg (13.6lb)	3.62kg (8lb)

BRONZE W10	
Low Frequency Limit (-6dB IEC 268-13)	30Hz
Upper Frequency Limit	40-150Hz (Variable Low Pass filter)
Low Pass Filter Alignment	12dB/ Octave variable + 12dB/ Octave Fixed @ 150Hz
Amplifier Output	200W R.M.S
Amplifier Classification	Class D with Switch mode PSU
Cabinet Alignment	ABR (Auxiliary bass radiator)
Input Impedance	>20K Ohms
Input Connections	2 x Stereo RCA, 1 x LFE RCA connection
Drive Unit Complement	1 x 10" C-CAM® Long throw subwoofer driver + 1 x 10" flat panel ABR
External dimensions (H x W x D)	320 x 320 x 330mm (336mm High inc feet) 12 ^{5/8} x 12 ^{5/8} x 13 In. (13 ^{1/4} in. High inc feet)
Mains Input Voltage	110-120/220-240 Vac. 50-60Hz. Electronic auto-select
Standby Power consumption	<0.5W (ErP approved)
Max Power consumption	200W

BRONZE 1



BRONZE 2



BRONZE 5



BRONZE 6



BRONZE CENTRE



BRONZE FX



BRONZE W10





