

# BRONZE SERIES



PRELIMINARY DEVELOPMENT INFORMATION | FEB 2015



## NEW BRONZE: PURITY AND PRECISION FOR THE PRICE OF AN ORDINARY SPEAKER

Monitor Audio's story is intertwined with the evolution of our world-famous speaker lines. Driven by top-down innovation and ever more accurate acoustic analysis, each generation has grown in capability, achieving award-winning levels of quality, performance and value with every introduction. Our restless desire for the most blissful combination of great sound and design at all price points, demands that where possible we share the tech across ranges so that driver designs and analytic tools developed upstream serve to enhance ranges further down. For example this allows the New Gold series to benefit from a version of Platinum's extraordinary C-CAM<sup>®</sup> ribbon tweeter; for Silver to inherit Gold's 'dished' C-CAM driver designs, and similarly for New Bronze to absorb the latest refinements in tweeter and driver engineering from the Silver project. In many ways New Bronze has everything to gain from Monitor Audio's dynamic forty-year design heritage. Enriched as it is with elements of Platinum, Gold and Silver, the brilliant New Bronze series will transcend the expectations of its price class and eclipse even its venerated multi-award winning predecessor Bronze BX.

## NEW GENERATION, DIFFERENT CLASS

Our latest champion moves up a gear from BX and rival budget speakers because New Bronze is simply in a class of its own. The features speak for themselves. For the first time we're using spectacular steel-grey C-CAM driver cones for a seamless blend with finishes, available in a choice of Black Oak, Walnut, Rosemah and a new White Ash. Invisible driver fixings and floating magnetic grilles add to the impression of streamlined sophistication, lending new Bronze the look and feel of a premium range.

It sounds like one as well. Drawing on our flagship technologies we've over-engineered the acoustic design to deliver lower distortion and a wider response from seven beautifully matched, deceptively slender models. Combined for natural full-range music and home cinema sound, New Bronze will transform the quality of your home entertainment at a price that won't break the bank.

## DESIGN FOR SOUND

### NEW BRONZE DRIVERS

All new C-CAM driver configurations give New Bronze the tonal accuracy and consistency of a class leader. Harnessing driver technology developed for our acclaimed mid-market Silver models, New Bronze explodes the myth that high power handling with low distortion belongs exclusively to the expensive world of audiophile design.

The proprietary bass and mid drivers responsible for Bronze's open, expressive and naturally rhythmic quality utilise a new type of 'dished' C-CAM cone, which employs the entire cone surface to radiate sound. Unbroken by the centre pole-piece aperture of conventional driver designs, the cone is inherently more rigid and efficient while being less prone to break-up under high drive conditions, resulting in exceptional detail resolution and life-like tonality. Ingeniously, the driver's voice coil is thermally coupled to the back of the cone, which draws heat away from the coil for better power handling and optimal operation at all volume levels.

Above the drivers, a new 25mm C-CAM Gold Dome tweeter extends each system's frequency response to an ultra-sonic 30kHz, allowing the full reproduction of harmonic frequencies vital to the accurate reproduction of, say, the decay of a piano string or the crash of a hi-hat. Within the New Bronze tweeter, an innovative venting system allows air to flow outside the tweeter's magnet assembly into a rear loading chamber, preventing air from being compressed at the back of the dome for lower distortion, reduced mechanical resonance, and improved damping. Structural improvements in dome geometry and drive mechanism have boosted accuracy and extension at the top end of the tweeter's range as well, generating the extraordinary high frequency quality that helps to define the sound of new Bronze.

### NEW BRONZE SYSTEM FEATURES

Enhancing system performance is our 'bolt-through' driver mounting design, first devised for our Radius Series models but now adopted by all our speaker ranges. The drivers are individually mounted on a through-bolt which fixes at the back of the cabinet and tensions the driver at the front. Cleverly this triple-action feature braces the cabinet structure for lower box colouration while removing the need for conventional front fixings, reducing unwanted driver/cabinet resonance and simultaneously boosting aesthetics.

The reflex loading found on all New Bronze models (excluding Centre, FX and W10) is of the HiVe®II variety, borrowed from the Gold range, which uses rifled port grooves to speed the air in and out of the cabinet for cleaner, more powerful bass and a superior transient response.

Best possible signal integrity through the crossover is supplied by polypropylene film capacitors, air core and laminated steel core inductors. With slightly higher overall impedance than their BX predecessors, the New Bronze line-up offers superior system-building flexibility with a wider choice of partnering equipment.

## THE NEW BRONZE RANGE

### NEW BRONZE ONE

We've optimised and tuned the diminutive Bronze One to be the most accurate of any Bronze generation mini, imbuing the design with true 'monitor' status. The 5½" C-CAM bass driver has been created to out-perform a larger conventional driver and results in a cleaner, more dynamic delivery, even at high power levels. The Bronze Ones are able to play much louder and deeper than their compact size would suggest from close-to-wall positions in smaller room environments. Perfect for stand or shelf, or wall-mounted using our Monitor Audio Speaker Mount (MASM), the Bronze Ones will deliver great sound where space is at a premium.

- New C-CAM gold dome tweeter
- New 5½" bass driver with 'dished' C-CAM cone profile
- HiVe II port technology
- Single bolt-through driver systems for increased cabinet rigidity and driver/baffle de-coupling
- High quality crossovers with premium grade Polypropylene film capacitors used throughout
- Rigid 18mm MDF cabinet construction employing radial and cross-bracing techniques for high rigidity and low cabinet coloration
- Invisible magnetic grille fixing
- Premium quality vinyl veneer finishes in Black Oak, Walnut, Rosemah and a new White Ash
- ¼"x20 TPI thread for wall mount bracket options (optional Universal wall mount bracket – UWB).

### NEW BRONZE TWO

The Bronze Two builds on the strength of its predecessor's audiophile credibility with a neutral tonal balance and high detail resolution combined with high overall efficiency and power handling. These are the perfect ingredients for compelling listening. Armed with a larger 6.5" C-CAM bass driver and front-firing HiVe II port, the turbo-charged Bronze Two is capable of effortless dynamic scale and presence, revealing all the dramatic contrast in music and cinema sound. For a speaker of its size, the Bronze Two will deliver breath-taking results.

- New C-CAM gold dome tweeter
- New 6½" bass driver with concave 'dished' C-CAM cone profile
- Front-firing HiVe II port technology
- 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
- Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes.

### NEW BRONZE FIVE

The slender Bronze Five delivers powerful, responsive bass lines that belie its stealthy appearance and surpass those of many much larger towers. Its 5½" C-CAM bass driver and 5½" C-CAM bass/mid driver are arranged in a two and half way system configuration, operating in separate acoustic chambers with front and rear firing HiVe II ports to provide differential tuning for higher efficiency and greater low frequency extension. The Bronze Five's low-distortion architecture expertly combines clean, expressive mid and high frequencies with punchy room-filling bass lines delivering a naturally rhythmic and addictive blend of large-scale dynamics and detail from a surprisingly unobtrusive tower.

- New C-CAM gold dome tweeter
- 5½" bass driver and 5½" bass/mid-range with concave 'dished' C-CAM cone profiles
- Two-and-a-half way configuration with differentially-tuned acoustic system for higher efficiency and improved low frequency extension
- HiVe II port technology
- 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
- Floor-level terminal panel for easy termination and neat cable access. Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes.

### NEW BRONZE SIX

From the towering Bronze Six, the most complete New Bronze speaker, music and home theatre lovers can appreciate the full-range flavour of our forty year design heritage. Its deceptively compact cabinet supports two 6½" C-CAM bass drivers operating in tandem with a further 6 ½" C-CAM mid-range unit housed in a dedicated chamber. In this way matching drivers tuned for different roles are able to develop a wonderfully uniform, tonally consistent sound-field. Their seismic low bass and richly coherent mid-range detail rises in frequency to meet the illuminating resolution of our fabulous Bronze C-CAM tweeter. Here is New Bronze in tooth and claw, alive to its ambitious audiophile design precedents and equipped with a compelling mix of accuracy, scale and dynamics for the highest value music and home theatre audio.

- New C-CAM gold dome tweeter
- Optimised 6½" mid-range driver featuring concave 'dished' C-CAM cone profile
- Dual 6½" bass drivers featuring concave 'dished' C-CAM cone profile
- Two and a half way configuration with differentially tuned acoustic system - higher efficiency and improved low frequency extension
- HiVe II port technology
- 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
- Floor-level terminal panel for easy termination and neat cable access. Bi-wire/ Bi-amp terminal configuration
- Premium quality vinyl veneer finishes.

### NEW BRONZE CENTRE

By sharing the New Bronze acoustic and aesthetic design ethos, the compact Bronze Centre is the natural partner for Bronze left/right speakers in a home theatre LCR array. It features twin 5½" C-CAM bass/mid-range drivers straddling a Bronze C-CAM tweeter for pin-point synergy with its satellite partners producing seamless front soundstage action and articulate dialogue.

- New C-CAM gold dome tweeter
- Dual 5½" bass/midrange drivers with concave 'dished' C-CAM cone profile
- Two-way M-T-M (D'Appolito) configuration in a sealed cabinet for accurate performance close to a wall or in restricted voids

- 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
- Acoustically matched to Bronze speaker systems for excellent imaging and consistency of timbre in surround applications
- Premium quality vinyl veneer finishes.

### **NEW BRONZE FX**

Developing the perfect mix of reverberant or direct surround sound in a Bronze home cinema system, the wall-hugging New Bronze FX surround speaker will combine seamlessly with front channels to establish the immersive audio experience essential to successful home theatre design. Matched acoustically and aesthetically with its LCR counterparts, its angled-baffle cabinet can be flush-mounted on side or rear walls, and its dispersion characteristics changed at the flick of a switch to accommodate the precise requirements for di-pole (diffuse) or bi-pole (direct) operation. Flanking a single 5½" C-CAM bass/mid driver, dual C-CAM gold dome tweeters are mounted on angled side-panels, helping to create a wider, more enveloping and convincing surround sound-field.

- Angled baffles to create a wider spread of sound for improved surround effects
- Optimised 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
- 5½" bass/mid-range driver with concave 'dished' C-CAM cone profile
- 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 timbre consistency in surround applications.

### **NEW BRONZE 'W10' SUBWOOFER**

All the audiophile-like transparency of New Bronze's low-distortion design regimen concentrated in the bass domain. This is New Bronze bass, deeply provisioned, authentically proportioned and dynamically fleet of foot, re-tooled from the ground up to punctuate the sound of every New Bronze system with stunningly natural bass transients, timed to perfection. The sophisticated W10 subwoofer is a New Bronze original, featuring an exclusive trinity of uprated amplifier topology, powerful DSP processing and new long-throw driver design. Advanced switch-mode power conversion techniques, custom DSP tuning and a massive power reservoir combine to generate enormous dynamic headroom from the Class D power-pack, allowing the driver to drop low and punch hard without distortion for a truly sensational deep bass experience. A down-firing 10" ABR (Auxiliary Bass Radiator) ensures that with the same compact footprint as its predecessor, the W10 delivers an incredible 6dB greater SPL at 40Hz. Choose how you enjoy the W10's prodigious bass energy with pre-set EQ settings for music, movie or impact.

- Ultra long throw 10" driver featuring concave 'dished' C-CAM cone. Increase 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 200W with low distortion
- Switch Mode power supply, designed to deliver high continuous rating and provides the 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 AV amp, processor or home automation control system
- 18mm thick MDF construction
- Heavy cabinet bracing applied to provide stiff, low resonance cabinet
- Premium quality vinyl veneer finishes.

What is C-CAM? Ceramic-Coated Aluminium/Magnesium is an innovative material originally developed by the aerospace industry for use as blades in jet engines. It exhibits ideal qualities for use as a driver dome, being extremely light but rigid enough to withstand the 'break-up' or bending modes associated with more conventional materials, resulting in greater efficiency, clarity and reduced distortion.

	BRONZE 1	BRONZE 2	BRONZE 5	BRONZE 6	BRONZE CENTRE	BRONZE FX
System Format	2 Way	2 Way	2 <sup>1/2</sup> Way	2 <sup>1/2</sup> Way	2 Way	2 Way
Frequency Response (-6dB - IEC 268-13)	55Hz - 30kHz	42Hz - 30kHz	37Hz - 30kHz	34Hz - 30kHz	60Hz - 30kHz	65Hz - 30kHz
Sensitivity 1W@1m	88dB	90dB	90dB	90dB	90dB	88dB
Maximum S.P.L. (1dB@ 1m - each)	109dBA (pair)	113dBA (pair)	113.8dBA (pair)	114.8dBA (pair)	113dBA	110dBA (pair)
Nominal Impedance	8Ω	8Ω	8Ω	8Ω	8Ω	8Ω
Power Handling - R.M.S.	70W	100W	120W	150W	120W	80W
Recommended Amp Requirements	15 - 70W	30 - 100W	30 - 120W	40 - 150W	20 - 120W	20 - 80W
Cabinet Design	Rear ported bass reflex. HiVe II Port technology	Front ported bass reflex. HiVe II Port technology	Dual chamber bass reflex - Ported front and rear. HiVe II Port technology	Bass section - Front/rear bass reflex with HiVe II Port technology. Sealed mid-range enclosure.	Sealed Cabinet	Sealed Cabinet
Drive Unit Complement	1 x 5 <sup>1/2</sup> " C-CAM® bass / mid driver, 1 x 25mm gold dome C-CAM tweeter	1 x 6 <sup>1/2</sup> " C-CAM bass / mid driver, 1 x 25mm gold dome C-CAM tweeter	1 x 5 <sup>1/2</sup> " C-CAM bass driver, 1 x 5 <sup>1/2</sup> " C-CAM mid-range driver, 1 x 25mm gold dome C-CAM tweeter	2 x 6 <sup>1/2</sup> " C-CAM bass driver, 1 x 6 <sup>1/2</sup> " C-CAM mid-range driver, 1 x 25mm gold dome C-CAM tweeter	2 x 5 <sup>1/2</sup> " C-CAM bass / mid driver, 1 x 25mm gold dome C-CAM tweeter	1 x 5 <sup>1/2</sup> " C-CAM bass / mid driver, 2 x 25mm gold dome C-CAM tweeter
Crossover Frequency	2.7kHz	3.1kHz	LF: -6dB @ 600Hz MF/HF: 2.8kHz	LF: -6dB @ 150Hz MF/HF: 2.5kHz	3.0kHz	2.8kHz
Cabinet Dimensions (H x W x D)	260 x 165 x 180mm (10 <sup>1/4</sup> x 6 <sup>1/2</sup> x 7 <sup>1/16</sup> "	350 x 185 x 255mm (13 <sup>3/4</sup> x 7 <sup>5/16</sup> x 10 <sup>1/16</sup> "	850 x 165 x 248mm (33 <sup>7/16</sup> x 6 <sup>1/2</sup> x 9 <sup>3/4</sup> "	985 x 185 x 315mm (38 <sup>3/4</sup> x 7 <sup>5/16</sup> x 12 <sup>3/8</sup> "	165 x 460 x 165mm (6 <sup>1/2</sup> x 18 <sup>1/8</sup> x 6 <sup>1/2</sup> "	274 x 276 x 104mm (10 <sup>13/16</sup> x 10 <sup>7/8</sup> x 4 <sup>1/8</sup> "
Complete Dimensions inc grille, terminals, plinths & spikes (H x W x D)	260 x 165 x 205mm (10 <sup>1/4</sup> x 6 <sup>1/2</sup> x 8 <sup>1/16</sup> "	350 x 185 x 281mm (13 <sup>3/4</sup> x 7 <sup>5/16</sup> x 11 <sup>1/16</sup> "	898 x 215 x 282mm (35 <sup>3/8</sup> x 8 <sup>7/16</sup> x 11 <sup>1/8</sup> "	1033 x 235 x 350mm (40 <sup>11/16</sup> x 9 <sup>1/4</sup> x 13 <sup>3/4</sup> "	165 x 460 x 193mm (6 <sup>1/2</sup> x 18 <sup>1/8</sup> x 7 <sup>5/8</sup> "	274 x 281 x 118mm (10 <sup>13/16</sup> x 11 <sup>1/16</sup> x 4 <sup>5/8</sup> "
Weight (each)	3.5kg (7lb 12oz)	5.3kg (11lb 10oz)	11kg (24lb 6oz)	16.6kg (36lb 8oz)	5.6kg (12lb 6oz)	3.2kg (7lb)

BRONZE W10	
System Format	Active subwoofer system - Auxiliary (ABR) loading, 18mm MDF cabinet
Low Frequency Limit (-6dB - IEC 268-13)	30Hz
Upper Frequency Limit	40 - 120Hz (Variable Low Pass filter)
Low Pass Filter Alignment	12dB/ Octave Fixed @ 150Hz
Amplifier Output - R.M.S.	220W
Amplifier Classification	Class D with Switch mode PSU
Bass EQ Modes	Music / Movie / Impact
Phase Control	0-180 degrees
Auto Sensing	>3.5mV
Input Impedance	>20kΩ
Connections	2 x Stereo RCA, 1 x LFE RCA connection, 12V trigger (3.5mm mono mini-jack)
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 (12 <sup>5/8</sup> x 12 <sup>5/8</sup> x 13") 364 x 320 x 364mm (14 <sup>5/16</sup> x 12 <sup>5/8</sup> x 14 <sup>5/16</sup> ) inc grille, amp & feet
Mains Input Voltage	110-120Vac - 50-60Hz 220-240Vac - 50-60Hz. Factory region pre-set
Standby Power Consumption	<0.5W (ErP approved)
Max Power Consumption	200W
Weight (each)	12.9kg (28lb 6oz)

# BRONZE 1



# BRONZE 2



# BRONZE 5



# BRONZE 6



# BRONZE CENTRE



# BRONZE FX





# BRONZE W10





