APTUR

USER MANUAL

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OVERVIEW

APT-C

Seamlessly integrable 2-way ceiling-mounted loudspeakers available in three sizes (4-inch, 6.5-inch, and 8-inch). Each ceiling speaker in the Aptur range boasts a Celestion coaxial driver designed specifically for Aptur to deliver clear, immersive, well-balanced and uniform sound throughout the coverage area in a multitude of different applications.

The APT-C4 and APT-C6 feature custom designed horn flare profiles surrounding the custom-designed coaxial driver, which further enhance this clarity and uniformity, providing a beautifully balanced listening experience throughout the coverage area. Attention to detail in acoustic, mechanical and aesthetic design has been at the forefront of the development of Aptur ceiling speakers, with features to help seamlessly integrate these products into a variety of environments from hospitality through to corporate settings.

The range also features APT-C8S: an 8-inch ceiling mount subwoofer enhances the low-end performance of Aptur audio systems, providing a rich and immersive bass response that perfectly complements APT-C ceiling speakers and APT-P6 pendant speakers. Designed for background music applications, the APT-C8S brings full-bodied sound to any environment, offering bass extension that provides a well-balanced sonic accompaniment enhancing mood and atmosphere.

APT-P6

An elegant 2-way pendant loudspeaker designed as a natural extension of the APT-C ceiling speakers, to be easily added to Aptur systems in complete harmony. The APT-P6 expands the range to environments with cavernous high ceilings or spaces without a cavity space beyond the ceiling to mount a traditional ceiling speaker and features a Celestion 6.5-inch coaxial driver providing crystal clear audio. Its custom horn flare profile ensures balanced sound reproduction throughout the coverage area, making it well suited to a wide range of environments.

APT-CL

Sleek column array loudspeakers designed with an emphasis on clarity and directivity, enabling intelligible audio to be distributed directly to listeners even in acoustically challenging spaces. APT-CL63 (6 x 2.75-inch) and APT-CL103 (10 x 2.75-inch) column speakers each house an array of Celestion 2.75-inch neodymium compact full-range drivers, providing exceptional clarity well suited to speech applications. The included wall mounting bracket makes installation swift and simple with downward tilt settings from 0° to 15°. The tapered profile of the powder-coated aluminium cabinet makes for an elegant and unobtrusive aesthetic to be easily integrated into various settings from corporate spaces through to houses of worship.

APT-W8S

Echoing the low-frequency acoustic benefits of the APT-C8S, this surface mountable 8-inch subwoofer provides low-end frequency extension with its direct radiating design. The APT-W8S slimline enclosure is thoughtfully designed for both form and function. The enclosure is appointed with rubber feet to provide stability as well as isolation from resonant surfaces while the included mounting bracket allows for discrete surface mounting to blend seamlessly into any environment or be hidden out of sight completely. Working alongside other products in the range this slim profile subwoofer immerses listeners in a deep and rich soundscape in various environments.

INSTALLATION GUIDES

APT-C INSTALLATION GUIDE

1. Prepare the Installation Site:

- **Turn Off Power:** Ensure the amplifier or audio source is powered off.
- **Check Structure:** Confirm the ceiling can support the speaker.

2. Cut the Speaker Hole:

- Use the provided cutout template to mark the hole on the ceiling or ceiling tile.
- Carefully cut the mounting hole.

3. Install Tile Bridge (if applicable):

- Place the tile bridge support rails over the ceiling tile grid.
- Align with the intended speaker position.
- Align and connect the mounting ring.

4. Connect to Euroblock Terminal:

- Each APT-C ceiling speaker uses a 4-pin Euroblock connector for connecting speaker cables. Insert the stripped end of the speaker cable and tighten the screws securely.

  Pin Connections:
  - Pin 1 (+) = Positive input
  - Pin 2 (+) = Positive link out
  - Pin 3 (-) = Negative input
  - Pin 4 (-) = Negative link out

5. Mount the Speaker:

- **Choose Dog-Leg Mount Orientation:** APT-C ceiling speakers come with reversible dog-leg mounts to allow for a wider range of ceiling thicknesses. Choose the correct orientation for the ceiling tile/ceiling thickness.

- **Attach Dog-Leg Mount:** Once you have selected the orientation, attach the dog-leg mounts to the ceiling speaker with the screws provided.
- **Attach Safety Tether:** Secure the safety tether from the speaker's eyelet to a fixed anchor point above the ceiling.
- **Connect Euroblock:** Connect the wired Euroblock to the speaker.

- **Insert Speaker into Ceiling:** Align the speaker in the cut-out hole and carefully push it into place.
  Tighten Dog-Leg Mounts: Using a screwdriver, tighten the screws for the dog-leg mounts. The mounts will swing out and grip the rear of the ceiling or tile bridge.

7. Final Steps:

- **Choose Transformer Tap Setting:** Use the rotary switch located on the front of the ceiling speaker to choose the appropriate wattage tap for 70V/100V line systems. For Lo-Z operation, select 8Ω to bypass the transformer. (See Power Modes section for more details).

- **Install Grille:** Snap the magnetic grille into place.
- **Test the Speaker:** Turn on the amplifier and play audio to confirm proper operation.

APT-P6 INSTALLATION GUIDE

1. Prepare the Installation Site:

- **Turn Off Power:** Ensure the amplifier or audio source is powered off.
- **Check Structure:** Confirm the ceiling can support the weight of the speaker.

2. Install steel cable:

- APT-P6 ships with 2 x 3.5m steel cables for installation. These cables are designed to be wrapped or threaded around appropriate suspension points such as structural beams or steel eyebolts.
- Cut steel cable to appropriate length.
- Wrap or thread the cable through appropriate suspension point.
- Use the included cable crimp to secure the cable.
- Thread the other end of the cable through the included carabiner.
- Crimp this end of the cable to secure.
- Repeat this process for the second steel cable for optimal safety.
- Remove magnetic rear cover on the APT-P6 and remove the cable insert.
- Attach the carabiners to the steel suspension point on the rear of the pendant speaker.

4. Connect to Euroblock Terminal:

- The APT-P6 pendant speaker uses a 4-pin Euroblock connector for connecting speaker cables. Insert the stripped end of the speaker cable and tighten the screws securely.

  Pin Connections:
  - Pin 1 (+) = Positive input
  - Pin 2 (+) = Positive link out
  - Pin 3 (-) = Negative input
  - Pin 4 (-) = Negative link out

- **Connect Euroblock:** Connect the wired Euroblock to the speaker.

6. Final Steps:

- **Attach rear cover:** Snap the magnetic rear cover and cable insert into place to conceal the rear connections and suspension point.

- **Choose Transformer Tap Setting:** Use the rotary switch located on the front of the speaker to choose the appropriate wattage tap for 70V/100V line systems. For Lo-Z operation, select 8Ω to bypass the transformer. (See Power Modes section for more details).
- **Install Grille:** Snap the magnetic grille into place.
- **Test the Speaker:** Turn on the amplifier and play audio to confirm proper operation.

APT-CL INSTALLATION GUIDE

1. Prepare the Installation Site:

- **Turn Off Power:** Ensure the amplifier or audio source is powered off.
- **Choose location:** select a location with the required wall strength to support the APT-CL, and that achieves the desired sound coverage.

2. Install mounting bracket:
- **Mark the Drill Holes:** Use the mounting bracket as a template to mark the drill holes.
- **Drill Holes**: Drill holes and insert wall anchors where required.
- **Secure Bracket:** Fix the bracket to the wall using appropriate screws.

3. Connect to Euroblock Terminal:

- Each APT-C ceiling speaker uses a 4-pin Euroblock connector for connecting speaker cables. Insert the stripped end of the speaker cable and tighten the screws securely.

  Pin Connections:
  - Pin 1 (+) = Positive input
  - Pin 2 (+) = Positive link out
  - Pin 3 (-) = Negative input
  - Pin 4 (-) = Negative link out

- **Connect Euroblock:** Connect the wired Euroblock to the speaker.
- **Select multi-tap transformer setting:** See power modes for further information.

4. Connect the APT-CL to the bracket:
- **Choose speaker position:** APT-CL column speakers feature multiple fixed mounting points to allow the speaker to be installed at various heights and with varying degrees of downward tilt.
- **Hang the speaker:** Hang the speaker using the eyelets on the bracket and the fixed mounting point.

- **Angle the speaker:** Choose appropriate level of downward tilt using the pin and slots located on the bracket.

5. Final Steps:

- **Test the Speaker:** Turn on the amplifier and play audio to confirm proper operation.

APT-W8S INSTALLATION GUIDE

1. Prepare the Installation Site:
- **Turn Off Power:** Ensure the amplifier or audio source is powered off.

- **Check Structure:** If mounting the APT-W8S, check that the structure can sufficiently handle the weight.

2. Surface Mount Installation

- **Mark the Drill Holes:** Use the mounting bracket as a template to mark the drill holes.

- **Drill Holes:** Drill holes and insert wall anchors where required.

- **Secure Bracket:** Fix the hook bracket to the wall using appropriate screws.

- **Hang the speaker:** Hang the APT-W8S by aligning the slot on the rear of the subwoofer with the hook bracket connected.

3. Connect to Euroblock Terminal:

- Each APT-W8S subwoofer uses a 4-pin Euroblock connector for connecting speaker cables. Insert the stripped end of the speaker cable and tighten the screws securely.

  Pin Connections:
  - Pin 1 (+) = Positive input
  - Pin 2 (+) = Positive link out
  - Pin 3 (-) = Negative input
  - Pin 4 (-) = Negative link out

- **Connect Euroblock:** Connect the wired Euroblock to the speaker.
- **Select multi-tap transformer setting:** See power modes for further information.

4. Final Steps:

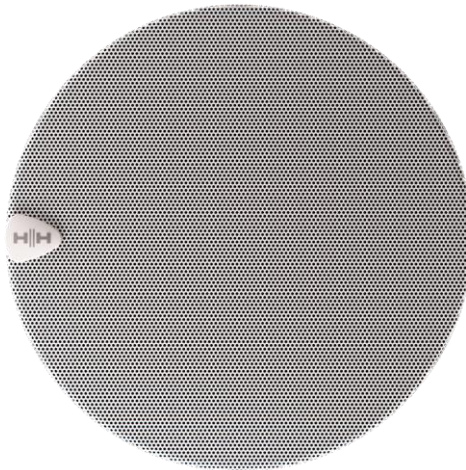- **Test the Speaker:** Turn on the amplifier and play audio to confirm proper operation.

POWER MODES

Power Modes: Depending on the required output level, and the type of amplifier used to power the system, connections and settings will change. all Aptur products feature a multi-tap transformer enabling 70V/100V use as well as Lo-Z use. 70V/100V line systems have the added advantage of allowing many speakers to be used in the setup using parallel connections. Ensure the cable used is capable of delivering the working current and the amplifier has sufficient drive capacity to support the number of speakers in the system.

Power options for each product are noted on or by the rotary switch for the transformer and detailed in the specification tables below. If installing multiple speakers, maintain polarity consistency across all units and use appropriate transformer tap settings to match amplifier load.
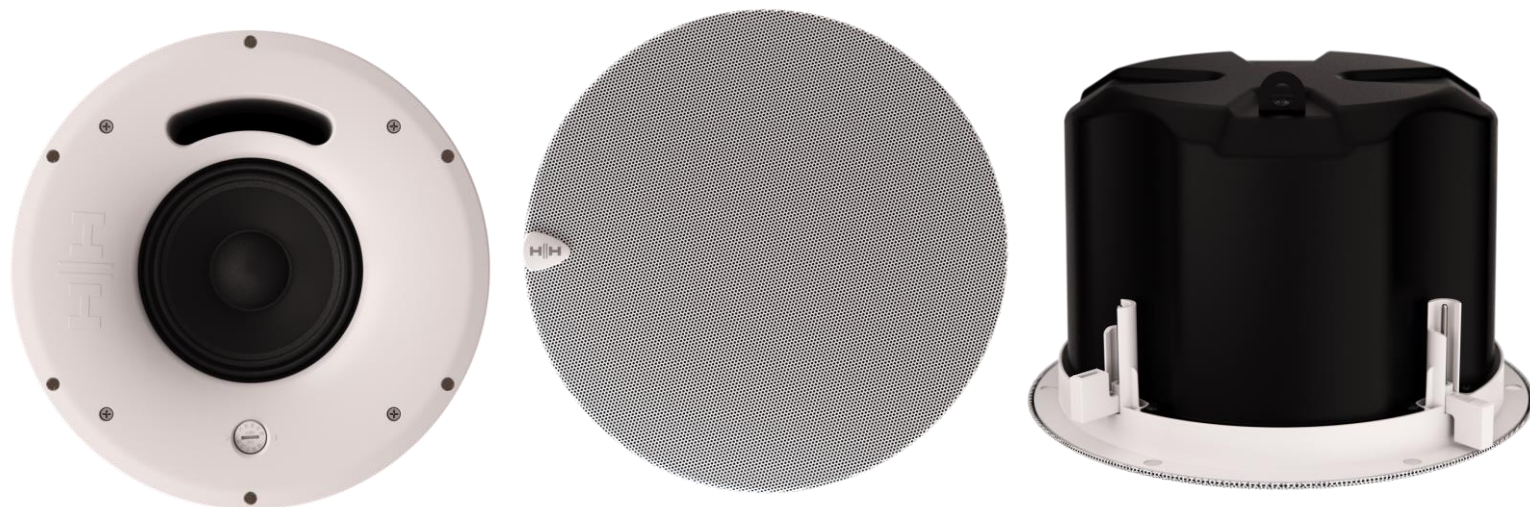
SPECIFICATIONS

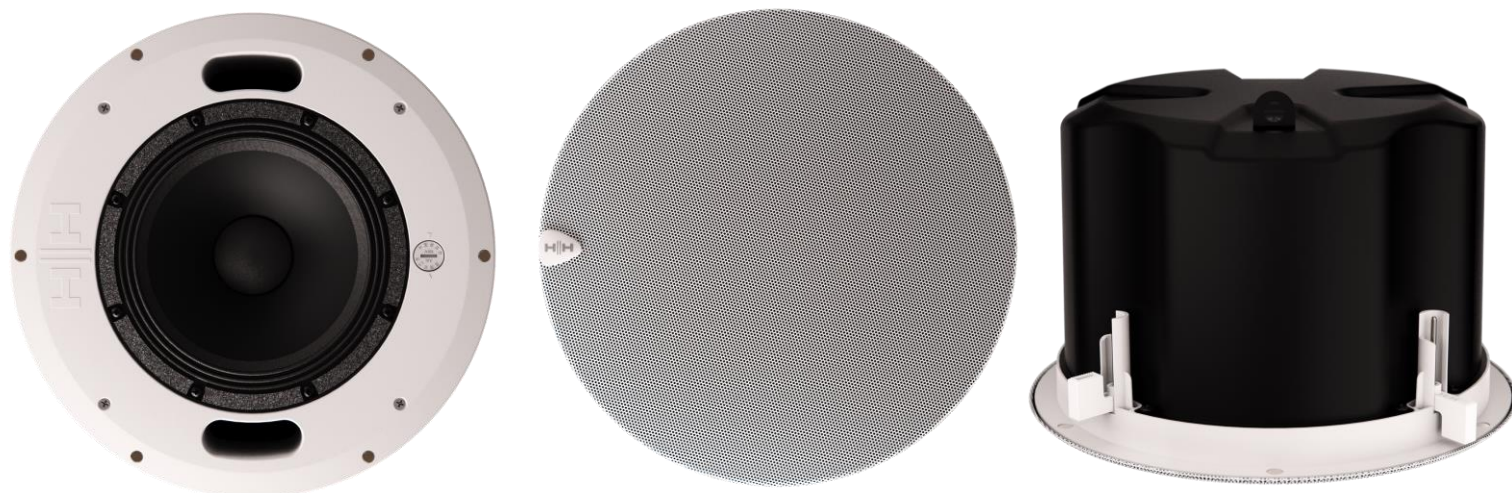## APT-C4 – 4-inch 2-way Coaxial Ceiling Loudspeaker

Specifications	
System type	2-way Coaxial Ceiling Loudspeaker
Driver Specifications	Celestion 4-inch Coaxial Driver with 1.25-inch LF VC and 0.75-inch HF VC
100V Power Options	30W, 15W, 6W
70V Power Options	15W, 7.5W, 3W
Nominal System Impedance	8 ohms
Power Rating	75W AES, 150W Continuous, 300W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	87dB
Maximum SPL (1m)	105dB SPL, 111dB SPL (Peak)
Frequency Response	90Hz-20kHz
Input / Link Connector	4-pin Euroblock +/- +/-
Dispersion	110°
Enclosure	
Main Construction Material	ABS/Steel
Finish	White ABS/Powdercoated Steel Back Can
Grille	White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Mechanism	3 reversible dog leg mounts, safety tether eyelet.
Minimum Tile Thickness	3mm
Maximum Tile Thickness	65mm
Dimensions	
Cutout Diameter	213mm
Outer Diameter	248mm
Max Depth	180.5mm
Optional Accessories	APT-TB4 - Tile bridge for APT-C4, APT-CG4-BK - Black Grille for APT-C4.
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-C6 – 6-inch 2-way Coaxial Ceiling Loudspeaker

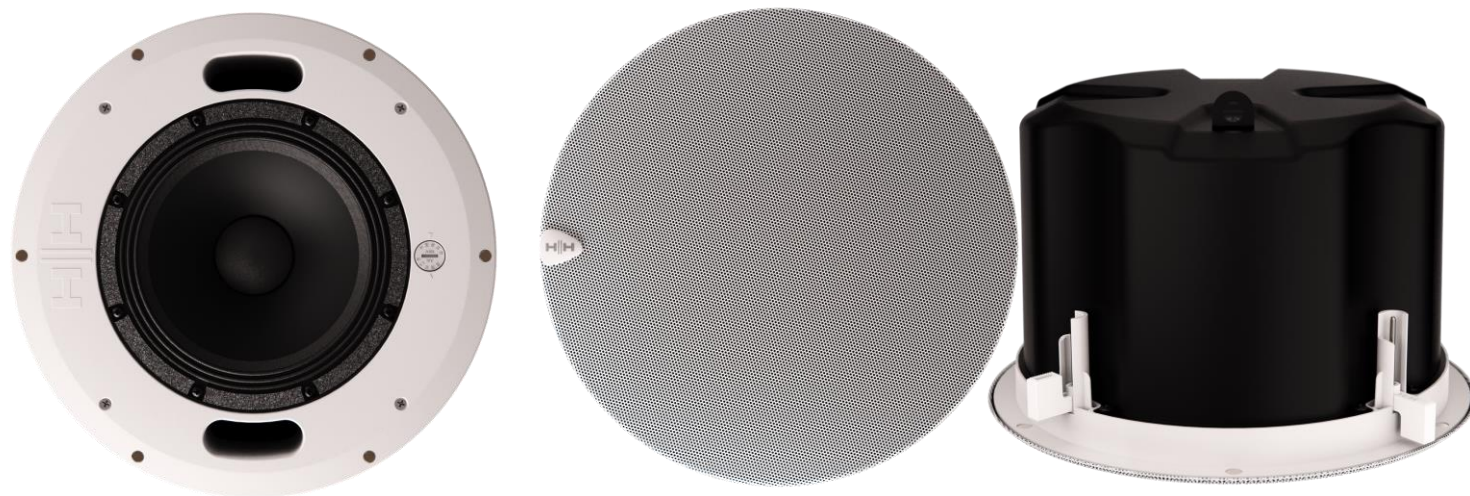| Specifications	
System type	2-way Coaxial Ceiling Loudspeaker
Driver Specifications	Celestion 6.5-inch Coaxial Driver with 1.5-inch LF VC and 1-inch HF VC
100V Power Options	40W, 20W, 10W
70V Power Options	20W, 10W, 5W
Nominal System Impedance	8 Ohms
Power Rating	120W AES, 240W Continuous, 480W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	90dB
Maximum SPL (1m)	110dB SPL, 116dB SPL (Peak)
Frequency Response	70Hz-20kHz
Input / Link Connector	4-pin Euroblock +/- +/-
Dispersion	120°
Enclosure	
Main Construction Material	ABS/Steel
Finish	White ABS/Powdercoated Steel Back Can
Grille	White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Mechanism	4 reversible dog leg mounts, safety tether eyelet.
Minimum Tile Thickness	3mm
Maximum Tile Thickness	65mm
Dimensions	
Cutout Diameter	273mm
Outer Diameter	308mm
Max Depth	197.5mm
Optional Accessories	APT-TB6 - Tile bridge for APT-C6, APT-CG6-BK - Black Grille for APT-C6.
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-C8 – 8-inch 2-way Coaxial Ceiling Loudspeaker

Specifications	
System type	2-way Coaxial Ceiling Loudspeaker
Driver Specifications	Celestion 8-inch Coaxial Driver with 1.5-inch LF VC and 1-inch HF VC
100V Power Options	40W, 20W, 10W
70V Power Options	20W, 10W, 5W
Nominal System Impedance	8 Ohms
Power Rating	120W AES, 240W Continuous, 480W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	92 dB
Maximum SPL (1m)	112 dB SPL, 118dB SPL (Peak)
Frequency Response	60Hz-20kHz
Input / Link Connector	4-pin Euroblock +/- +/-
Dispersion	120°
Enclosure	
Main Construction Material	ABS/Steel
Finish	White ABS/Powdercoated Steel Back Can
Grille	White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Mechanism	4 reversible dog leg mounts, safety tether eyelet.
Minimum Tile Thickness	3mm
Maximum Tile Thickness	65mm
Dimensions	
Cutout Diameter	298mm
Outer Diameter	333mm
Max Depth	207.5mm
Optional Accessories	APT-TB8 - Tile bridge for APT-C8(S), APT-CG8-BK - Black Grille for APT-C8(S).
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-C8S – 8-inch Ceiling Mount Subwoofer

Specifications	
System type	Ceiling Mount Subwoofer
Driver Specifications	8-inch HH -Designed Low Frequency Driver
100V Power Options	100W, 50W, 25W, 13W
70V Power Options	100W, 50W, 25W, 13W, 6W
Nominal System Impedance	8 Ohms
Power Rating	100W AES, 200W Continuous, 400W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	89dB
Maximum SPL (1m)	109 dB SPL, 115dB SPL (Peak).
Frequency Response	40Hz-200Hz
Input / Link Connector	4-pin Euroblock +/- +/-
Enclosure	
Main Construction Material	ABS/Steel
Finish	White ABS/Powdercoated Steel Back Can
Grille	White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Mechanism	4 reversible dog leg mounts, safety tether eyelet.
Minimum Tile Thickness	3mm
Maximum Tile Thickness	65mm
Dimensions	
Cutout Diameter	298mm
Outer Diameter	333mm
Max Depth	207.5mm
Optional Accessories	APT-TB8 - Tile bridge for APT-C8(S), APT-CG8-BK - Black Grille for APT-C8(S).
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-CL63 – 6 x 2.75-inch Full-Range Column Array Loudspeaker

Specifications	
System type	Full-Range Column Array Loudspeaker
Driver Specifications	6 x Celestion AN2775 – T5820 Full-Range Neodymium Drivers
100V Power Options	100W, 50W, 25W, 13W
70V Power Options	100W, 50W, 25W, 13W, 6W
Nominal System Impedance	12 Ohms
Power Rating	120W AES, 240W Continuous, 480W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	91dB
Maximum SPL (1m)	111dB SPL, 117dB SPL (Peak)
Frequency Response	160Hz-20,000Hz
Input / Link Connector	4-pin Euroblock +/- +/-
Horizontal Dispersion	120°
Vertical Dispersion	12°
Enclosure	
Main Construction Material	Aluminium, MDF with ABS End Cap
Finish	Powdercoat (Black/White)
Grille	Black/White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Bracket	Pan/Tilt bracket
Mounting Points	6 mounting points for included bracket.
Dimensions	
Unit Dimensions (HWD)	466mm x 100mm x 150mm
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-CL103 – 10 x 2.75-inch Full-Range Column Array Loudspeaker

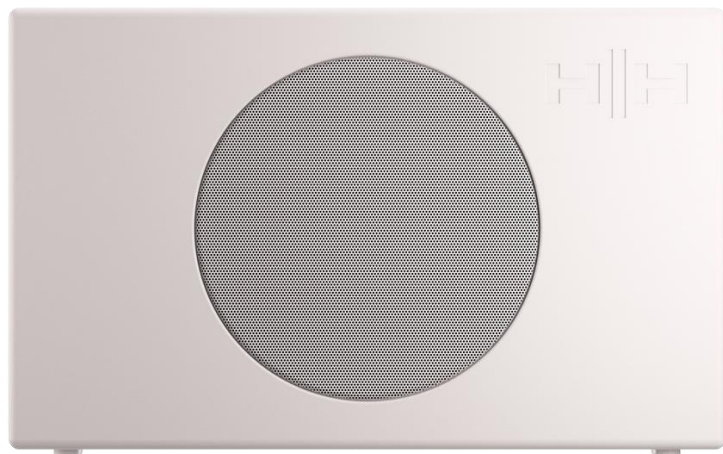| Specifications	
System type	Full Range Column Array Loudspeaker
Driver Specifications	10 x Celestion AN2775 - T5820 Full-Range Neodymium Drivers
100V Power Options	100W, 50W, 25W, 13W
70V Power Options	100W, 50W, 25W, 13W, 6W
Nominal System Impedance	20 Ohms
Power Rating	200W AES, 400W Continuous, 800W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	93dB
Maximum SPL (1m)	116dB SPL, 800W dB SPL (Peak)
Frequency Response	160Hz-20,000Hz
Input / Link Connector	4-pin Euroblock +/- +/-
Horizontal Dispersion Angle	120°
Vertical Dispersion Angle	10°
Enclosure	
Main Construction Material	Aluminium, MDF with ABS End Cap
Finish	Powdercoat (Black/White)
Grille	Black/White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Bracket	Pan/Tilt bracket
Mounting Points	6 mounting points for included bracket.
Dimensions	
Unit dimensions (HWD)	758mm x 100mm x 150mm
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-P6 – 6-inch 2-Way Coaxial Pendant Loudspeaker

Specifications	
System type	2-Way Coaxial Pendant Loudspeaker
Driver Specifications	Celestion 6.5-inch Coaxial Driver with 1.5-inch LF VC and 1-inch HF VC
100V Power Options	40W, 20W, 10W
70V Power Options	20W, 10W, 5W
Nominal System Impedance	8 Ohms
Power Rating	120W AES, 240W Continuous, 480W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	90dB
Maximum SPL (1m)	110dB SPL, 116dB SPL (Peak)
Frequency Response	70Hz-20kHz
Input / Link Connector	4-pin Euroblock +/- +/-
Dispersion	120°
Enclosure	
Main Construction Material	ABS
Finish	Black/White ABS
Grille	Black/White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Bracket	Optional wall mounting bracket.
Mounting Suspension Points	Integrated eyelet for suspended mounting via carabiner.
Dimensions	
Outer Diameter	308mm
Max Depth	305mm
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

APT-W8S – 8-inch Surface Mount Subwoofer

Specifications	
System type	Surface Mount Subwoofer
Driver Specifications	8-inch HH -Designed Low Frequency Driver
100V Power Options	100W, 50W, 25W, 13W
70V Power Options	100W, 50W, 25W, 13W, 6W
Nominal System Impedance	8 Ohms
Power Rating	100W AES, 200W Continuous, 400W Peak
Recommended Amplifier	MZ-140D, MZ-140Q, MZ-280Q
Sensitivity 1W/1m	89dB
Maximum SPL (1m)	109 dB SPL, 115dB SPL (Peak).
Frequency Response	40Hz-200Hz
Input / Link Connector	4-pin Euroblock +/- +/-
Enclosure	
Main Construction Material	Plywood
Finish	Black/White Paint
Grille	Black/White Fine Mesh Perforated Steel with Powdercoated Finish
Mounting Mechanism	Steel surface mount bracket included.
Dimensions	
With Feet (HWD)	327mm x 520mm x 175mm
Without Feet (HWD)	320mm x 520mm x 168mm
Wall Clearance with Bracket	10mm
In the interest of continued development, HH reserves the right to amend product specification without prior notification.	

SAFETY AND WARNINGS

To take full advantage of your new product and enjoy long and trouble-free performance, please read this owner's manual carefully, and keep it in a safe place for future reference.

1) Unpacking: On unpacking your product, please check carefully for any signs of damage that may have occurred whilst in transit from the HH factory to your dealer. In the unlikely event that there has been damage, please re-pack your unit in its original carton and consult your dealer. We strongly advise you to keep your original transit carton, since in the unlikely event that your unit should develop a fault, you will be able to return it to your dealer for rectification securely packed.

2) Amplifier Connection: To avoid damage, generally it is advisable to establish and follow a pattern for turning on and off your system. With all system parts connected, turn on source equipment, mixers, effects processors etc, BEFORE turning on your amplifier. Many products have large transient surges at turn on and off which can cause damage to your speakers. By turning on your amplifier LAST and making sure its level control is set to a minimum, any transients from other equipment should not reach your loudspeakers. Wait till all system parts have stabilised, usually a couple of seconds. Similarly, when turning off your system always turn down the level controls on your amplifier and then turn off its power before turning off other equipment.

3) Cables: Only use appropriately rated speaker cables. Never use shielded or microphone cable for any speaker connections as this will not be substantial enough to handle the amplifier load and could cause damage to your complete system.

4) Servicing: The user should not attempt to service these products. Refer all servicing to qualified service personnel.

5) Heed all warnings.

6) Follow all instructions.

7) Avoid Contact with Water: Do not expose this apparatus to rain, liquids, or excessive moisture unless rated for outdoor use (e.g. IP-rated enclosures).

8) Clean only with a dry cloth.

9) Do not block any of the ventilation openings. Install in accordance with manufacturer's instructions.

10) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

11) Only use attachments/accessories provided by the manufacturer.

12) Risk of Falling / Crushing Hazard: Loudspeakers can be heavy. Always use appropriate lifting techniques and handle with care. Avoid stacking units unless properly secured.

13) Use Only Approved Rigging Hardware: Always follow relevant standards such as (but not limited to) EN 60598-2-17, DIN 56950, and BGV C1, where applicable for flown or stage-mounted loudspeakers. If suspending or flying the loudspeaker, always use manufacturer-approved brackets, frames or rigging kits. Follow all local regulations (e.g. Machinery Directive 2006/42/EC, Regulation EU 2023/1230 or other applicable local laws).

14) Surface Placement: Ensure the loudspeaker is placed on a level and stable surface. Do not place on elevated platforms or shelves where vibration could cause movement or falls.

15) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

16) Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably in susceptibility to noise-induced hearing loss, but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures: According to OSHA, any exposure more than the above permissible limits could result in some hearing loss. Earplugs or protectors to the ear canals or over the ears must be worn when operating this amplification system to prevent a permanent hearing loss, if exposure is more than the limits as set forth above. To ensure against potentially dangerous exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of producing high sound pressure levels such as this amplification system be protected by hearing protectors while this unit is in operation.

Duration Per Day in Hours	Sound Level dBA, slow response
8	90
6	92
4	95
3	97
2	100
1 ½	102
1	105
½	110
¼ ou inférieur	115

In the EU, exposure is regulated under Directive 2003/10/EC. Prolonged exposure above 85 dB(A) can cause hearing damage. Hearing protection must be used when operating equipment capable of producing high sound pressure levels.
In the UK, the Control of Noise at Work Regulations 2005 apply.
Use hearing protection when operating loudspeakers at high volumes.

17) Always keep speaker output levels within safe exposure limits.

18) If your appliance features a tilting mechanism or a kickback style cabinet, please use this design feature with caution. Due to the ease with which the amplifier can be moved between straight and tilted back positions, only use the amplifier on a level, stable surface. DO NOT operate the amplifier on a desk, table, shelf or otherwise unsuitable non-stable platform.

19) Surface Placement: Ensure the loudspeaker is placed on a level and stable surface. Do not place on elevated platforms or shelves where vibration could cause movement or falls.

20) Symbols & nomenclature used on the product and in the product manuals, intended to alert the operator to areas where extra caution may be necessary, are as follows:

CAUTION:	Intended to alert the user to the presence of uninsulated 'Dangerous Voltage' within the products enclosure that may be sufficient to constitute a risk of electrical shock to persons.
	Ce symbole est utilisé pur indiquer a l'utilisateur de ce produit de tension non-isolée dangereuse pouvant être d'intensité suffisante pour constituer un risque de choc électrique.
	Este símbolo tiene el propósito de alertar al usuario de la presencia de '(voltaje) peligroso' que no tiene aislamiento dentro de la caja del producto que puede tener una magnitud suficiente como para constituir riesgo de corrientazo.
	Dieses Symbol soll den Anwender vor unisolierten gefährlichen Spannungen innerhalb des Gehäuses warnen, die von ausreichender Starke sind, um einen elektrischen Schlag verursachen zu können.
WARNING:	Intended to alert the user of the presence of important operating and maintenance (Servicing) instructions in the literature accompanying the product.
	Destiné à alerter l'utilisateur de la présence d'instructions importantes d'exploitation et de maintenance (entretien) dans la documentation accompagnant le produit.
	Este símbolo tiene el propósito de la alertar al usuario de las presencias de instrucciones importantes sobre la operación y mantenimiento en la literatura que viene con el producto.
	Dieses Symbol soll den Benutzer auf wichtige Instruktionen in der Bedienungsanleitung aufmerksam machen, die Handhabung und Wartung des Produkts betreffen.

CAUTION:	Risk of electrical shock - DO NOT OPEN. To reduce the risk of electrical shock, do not remove the cover. No user serviceable parts inside. Refer servicing to qualified personnel.
ATTENTION :	Risques de choc électrique - NE PAS OUVRIR. Afin de réduire le risque de choc électrique, ne pas enlever le couvercle. Il ne se trouve a l'intérieur aucune pièce pouvant être réparée par l'utilisateur. Confier l'entretien a un personnel qualifié.
PRECAUCION:	Riesgo de descarga eléctrica - NO ABRIR. Para reducir el riesgo de descarga eléctrica, no quite la cubierta. No hay piezas reparables por el usuario en el interior. Remita el servicio a personal calificado.
VORSICHT:	Risiko - Elektrischer Schlag! Nicht offen! Um das Risiko eines elektrischen Schlages zu vermeiden, nicht die Abdeckung entfernen. Es befinden sich keine Teile darin, die vor Anwender repariert werden konnten. Reparaturen nur von qualifiziertem Fachpersonal durchführen lassen.

WARNING:	To prevent electrical shock or fire hazard, do not expose this appliance to rain or moisture. Before using this appliance, please read the operating instructions for further warnings.
ADVERTISSEMENT :	Afin de prévenir les risques de décharge électrique ou de feu, n'exposez pas cet appareil a la pluie ou a l'humidité. Avant d'utiliser cet appareil, lisez les avertissements supplantais situes dans le guide.
ADVERTENCIA:	Para evitar descargas eléctricas o peligro de incendio, no exponga este aparato a la lluvia ni a la humedad. Antes de usar este aparato, lea las instrucciones de funcionamiento para conocer más advertencias.
ACHTUNG:	Um einen elektrischen Schlag oder Feuergefahr zu vermeiden, sollte dieses Gerat nicht dem Regen oder Feuchtigkeit ausgesetzt werden. Vor Inbetriebnahme unbedingt die Bedienungsanleitung lesen.

FC	This device complies with Part 15 of the FCC rules Operation is subject to the following two conditions:
	1) This device may not cause harmful interference.
	2) This device must accept any interference received, that may cause undesired operation.
	Warning: Changes or modification to the equipment not approved by HH can void the user's authority to use the equipment.
	Note: This equipment has been tested and found to comply with the limits for Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures. Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help.

CE	Declaration of Conformity (Simplified)
	This product conforms to the requirements of the following European Regulations, Directives & Rules: CE Mark (93/68/EEC), RoHS (2011/65/EU), General Product Safety Directive (2001/95/EC), WEEE Directive (2012/19/EU)
	Full text of the EU declaration of conformity is available at the following internet address:
	http://support.hhaudio.com/approvals

UKCA	The object of the declaration described above is in conformity with the relevant statutory requirement Electrical Equipment (Safety) Regulations 2016, Electromagnetic Compatibility Regulations 2016, The Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012, The Ecodesign for Energy-Related Products and Energy Information, (Amendment) (EU Exit) Regulations 2012

	In order to reduce environmental damage, at the end of its useful life, this product must not be disposed of along with normal household waste to landfill sites. It must be taken to an approved recycling centre according to the recommendations of the WEEE (Waste Electrical and Electronic Equipment) directive applicable in your country.