



584/544/524 Columnar Source



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SAFETY INSTRUCTIONS

1. Read this document

2. Pay attention to all safety instructions and hazards and obligatory warnings

3. Do not use equipment or accessories that are not approved by QANON AUDIO.

4. Attention to Sound Level

Do not approach the speaker when operating, and consider wearing earplugs.

Speaker system can produce very high sound pressure level (SPL), which can be instantaneous.

It results in permanent hearing impairment to performers, producers and audiences.

Listening can take place for a long time:

8 hours 90 decibels (A-weighted), 30 minutes 110 decibels (A-weighted), less than 4 minutes 130 decibels (A-weighted).

5. Read the manual before operating the product.

Use speaker system components described in user manual and follow instructions

6. Read the rigging manual before installing the product.

Use the hanging accessories described in the installation manual and follow the relevant procedures.

7. Before repairing the product, please read the "Maintenance" section of this document.

8. Do not expose products to extreme conditions

Do not expose the product to rain or waves.

Do not expose the product to humidity (fog, steam, humidity, cooling, etc.) or overheating (direct sunlight, radiator...) For a long time

9. Do not store products on unstable carts, brackets, tripods, brackets or tables.

10. Maintain this document as an integral part of the product

Put this document in a safe place.

Record any services of the product in the maintenance section of this document

Do not resell products without this update document

Thank you for purchasing QANON AUDIO #5 Series. The container shall contain - 2 #584,544,524 enclosure. Each QANON AUDIO #product has been tested and inspected before it leaves the factory and should arrive intact. Carefully open the container and check for any apparent damage. If so, inform the transport company or distributor immediately. Only the consignee can claim against the carrier for damage in transit. Cartons and packing materials must be kept for inspection by carriers. Read this document carefully to familiarize yourself with the product and identify external documents that contain basic information on correct and safe installation and operation of the product. All the documents described below can be accessed free of charge on the QANON AUDIO < website (www.qanon-audio.com).

As part of the continuous development of technology and standards, QANON AUDIO reserves the following rights:

Change product specifications and document contents without prior notice. Please visit the QANON AUDIO website regularly to download the latest updates of documents and software.



584/544/524 Columnar Source

584



- 4 inch Columnar source
- Maximum SPL 132dB
- 8 x 4" Ferrite low frequency drive unit
- Horizontal 90°
- Vertical 0°-25°
- LF frequency extended to 100Hz(-10dB)
- Long Distance Applications (Distributed)
- Ø 35mm Speaker stand / U-shaped
- 5x M6 threaded insert
- 8x M8 threaded insert(Accessories)
- 12Low/12LowX/Xiv18 Extend Bass

544



- 4 inch Columnar source
- Maximum SPL 129dB
- 4 x 4" Ferrite low frequency drive unit
- Horizontal 90°
- Vertical 0°-25°
- LF frequency extended to 100Hz(-10dB)
- Long Distance Applications (Distributed)
- Ø 35mm Speaker stand / U-shaped
- 5x M6 threaded insert
- 3x M8 threaded insert(Accessories)
- 12Low/12LowX/Xiv18 Extend Bass

524



- 4 inch Columnar source
- Maximum SPL 126dB
- 2 x 4" Ferrite low frequency drive unit
- Horizontal 90°
- Vertical 0°-25°
- LF frequency extended to 100Hz(-10dB)
- Short Distance Applications (Distributed)
- 2x M8 Mic stand / U-shaped
- 4x M6 threaded insert
- 2x M8 threaded insert(Accessories)
- 12Low/12LowX Extend Bass



Features

584 is a Columnar Source sound column system, suitable for a variety of applications, designed for professionals and high-end residential applications requiring high fidelity and sound pressure level. The 584 enclosure is equipped with eight 4-inch loudspeakers, with a nominal impedance of 4 ohms, and is sealed with 9mm birch plywood to provide a frequency range of [125Hz-17kHz (-6dB) / 100Hz-20kHz (-10dB)].

544 is a Columnar Source sound column system, suitable for a variety of applications, designed for professionals and high-end residential applications requiring high fidelity and sound pressure level. The 544 enclosure is equipped with four 4-inch loudspeakers, with a nominal impedance of 8 ohms, and is sealed with 9mm birch plywood to provide a frequency range of [130Hz-18kHz (-6dB) / 100Hz-20kHz (-10dB)]. Both produce an H / V 90 ° x 25 ° (5 ° - 25 °) vertical dispersion mode that can be switched to a wide or narrow coverage, optimizing horizontal coverage and extended projection capabilities.

In fixed installation applications, 584 and 544 are particularly suitable for enhancing sound in building environment and acoustics. A challenging environment with a combination of high definition, high SPL and extended bandwidth. Its high fidelity audio signal and beautiful lines can meet the needs of high-end residential projects. For rental, 584 and 544 are fast to deploy and easy to assemble. As a powerful PA loudspeaker, its excellent projection ability can meet the needs of large space and multi-functional hall.

584, 544 and 524 can be stacked as an independent system or fixed on one of its ultra-low speaker extensions. Compatible with wall mounted and flying. With a variety of custom colors, you can easily integrate any architectural style to meet the most demanding architectural needs. Hanging options include wall mounting, ceiling mounting, and audio bracket mounting in different directions to integrate into any possible situation. There are M6 threaded inserts on the left and right to accommodate the U-shaped hanger, 8 x M8 nut mounting holes on the rear, and adjustable height of mounting accessories.

524 is a line source sound column system, suitable for a variety of small applications. The 524 enclosure is equipped with two 4-inch loudspeakers with a nominal impedance of 16 ohms. 9mm birch plywood is used to seal the shell. The frequency range of [145Hz-18kHz (-6dB) / 118Hz-20kHz (-10dB)] is provided to produce a vertical dispersion mode of H / V 90 ° x 25 ° (5 ° - 25 °) which can be switched to a wide or narrow coverage, optimizing the horizontal coverage and extended projection ability. Its wide conical directional mode provides a smooth off-axis response to ensure the best sound effect to the audience's position.

The 524 can be stacked as a stand-alone system or fixed to one of its ultra-low speaker extensions. Compatible with wall mounted and flying. With a variety of custom colors, you can easily integrate any architectural style to meet the most demanding architectural needs. Hanging options include wall mounting, ceiling mounting and sound stand mounting, microphone stand mounting in different directions to integrate into any possible situation. There are M6 threaded inserts on the left and right to accommodate the U-shaped hanger, M8 threaded inserts on the top and bottom to accommodate the microphone bracket and ULX U-shaped hanger, and 2x M8 nut mounting holes on the rear to accommodate the adjustable height of the mounting accessories.



584 544 524 Technical Specification

Model	584	544	524
Type	Columnar Array	Columnar Array	Columnar Array
Frequency Response(Preset)	125Hz-17kHz(-6dB)	130Hz-18kHz(-6dB)	145Hz-18kHz(-6dB)
Frequency Response(Preset)	100Hz-20kHz(-10dB)	100Hz-20kHz(-10dB)	118Hz-20kHz(-10dB)
Horizontal	90° (-6dB)	90° (-6dB)	90° (-6dB)
Vertical	5°-25° (-6dB)	5°-25° (-6dB)	5°-25° (-6dB)
Drivers	LF: 8×4" (Ferrite)	LF: 4×4" (Ferrite)	LF: 2×4" (Ferrite)
Handling Power (AES)	LF:320W	LF:160W	LF:80W
Maximum Peak SPL	132dB/1m	129dB/1m	126dB/1m
Nominal Impedance	LF:4Ω	LF:8Ω	LF:16Ω
Connections	2 x NL4 SpeakOn	2 x NL4 SpeakOn	2 x NL4 SpeakOn
Pin Connections	NL4=LF: +1-1	NL4=LF: +1-1	NL4=LF: +1-1
Height Front	1000mm	515mm	270mm
Height Back	1000mm	515mm	270mm
Width	135mm	135mm	135mm
Depth	160mm	160mm	160mm
Weight	14kg / 30.8lb	7kg / 15.4lb	4kg / 8.8lb

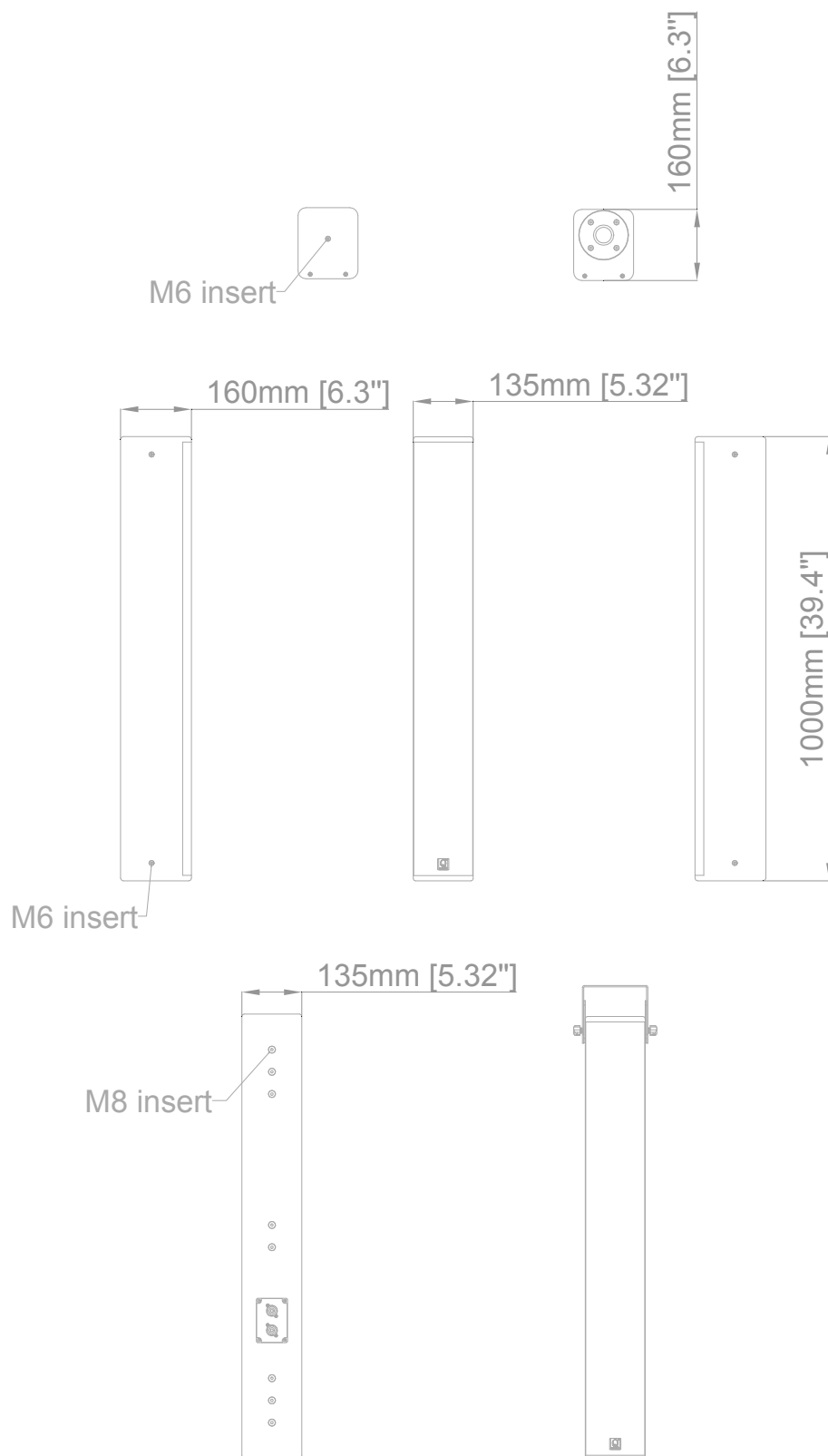
Rigging and Handling

Threaded	8x M8 threaded insert	3x M8 threaded insert	2x M8 threaded insert
Threaded	4x M6 threaded insert	4x M6 threaded insert	4x M6 threaded insert
Pole socket	1x 35mm Pole socket	1x 35mm Pole socket	2x M8 Pole socket threaded insert

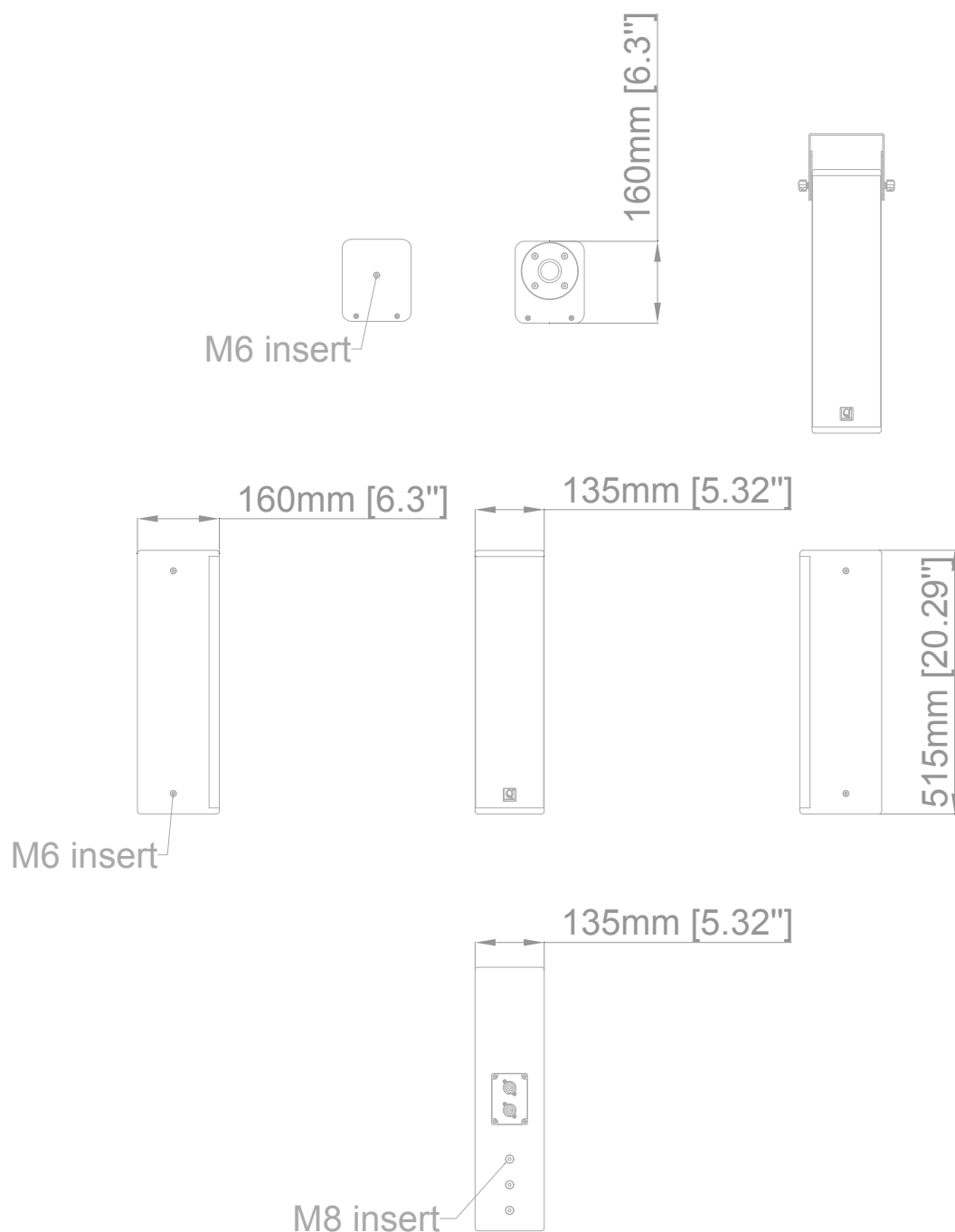
Physical Data

Material	Baltic Birch Plywood	Baltic Birch Plywood	Baltic Birch Plywood
Finish	Black	Black	Black
Front	Polyester powder-coated steel grill	Polyester powder-coated steel grill	Polyester powder-coated steel grill
Rigging	Steel	Steel	Steel
Protection rating	IP45	IP45	IP45

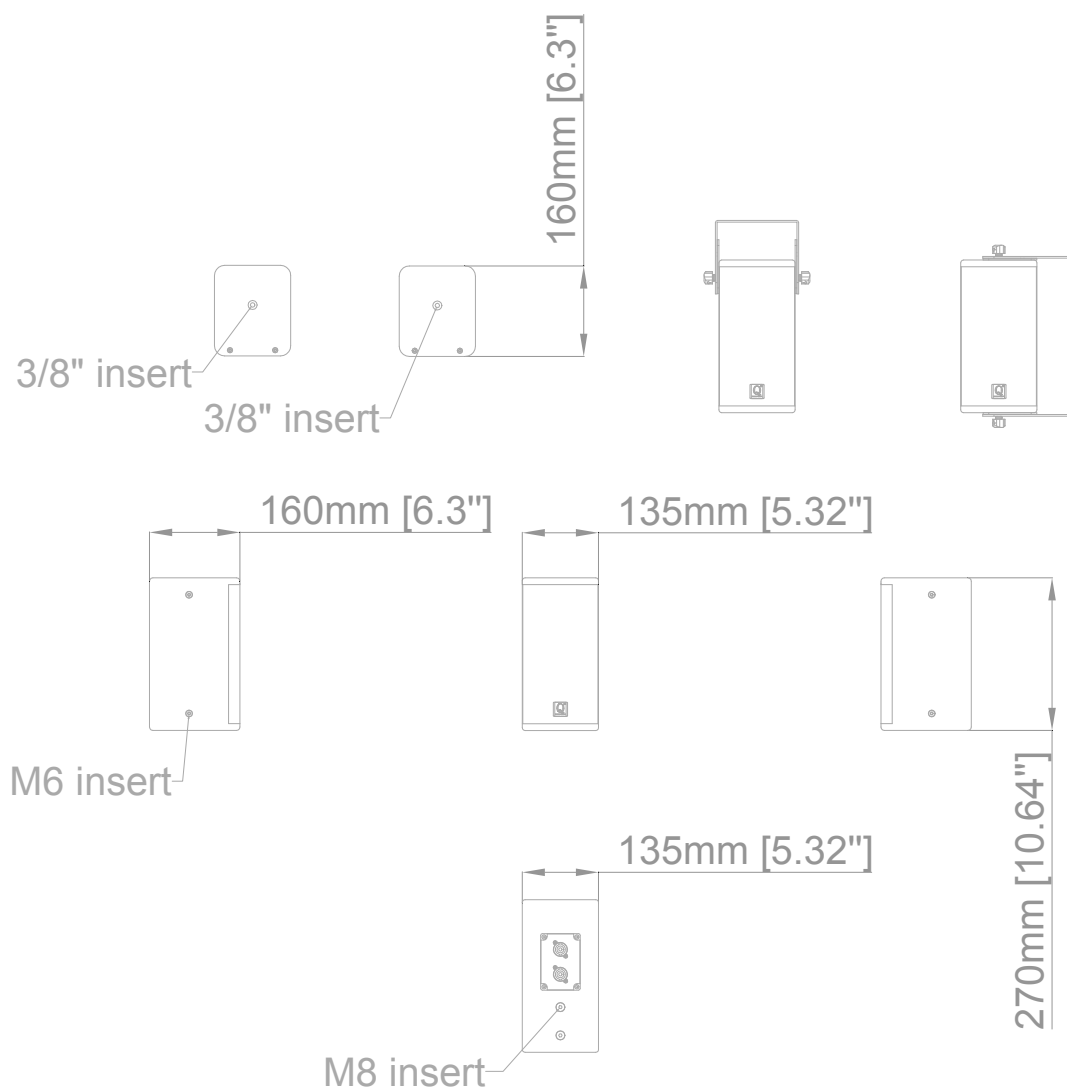
584 Dimensions CAD



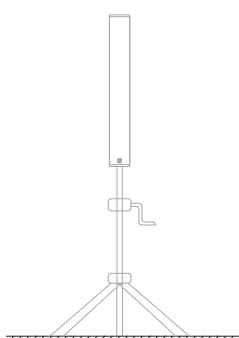
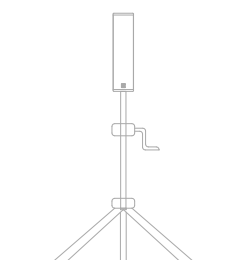
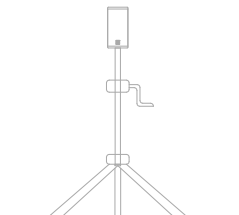
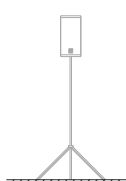

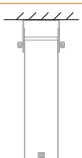


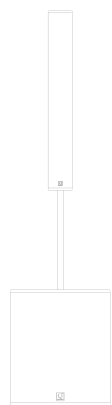

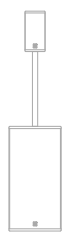
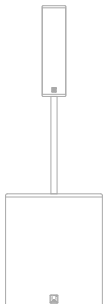


544 Dimensions CAD



524 Dimensions CAD



Application and Collocation

			
584 Speaker Stand	544 Speaker Stand	524 Speaker Stand	524 Mic Stand (M8)
			
584 U-shaped (UL)	544 U-shaped (UL)	524 U-shaped (UL/ULX)	524 U-shaped (ULX)
			
584+Xiv18	584+12Low/12Low Active	524+12Low/12Low Active	
			
544 +Xiv18	544 +12Low/12Low Active)	524 +12LowX/12LowX Active	



H600 Maximum number of enclosures per Amp

Enclosure	Max enclosure in parallel		Max enclosure per controller	
584	1		2	
544	2		4	
524	4		8	
5CS	4		8	
5SP	1		2	
Enclosure	1	2	3	4
584	LF:4 Ω			
544	LF:8 Ω	LF:4 Ω		
524	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω
5CS	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω
5SP	LF:5.3 Ω / HF8 Ω	LF:2.65 Ω / HF4 Ω		

VDA18 Maximum number of enclosures per Amp

Enclosure	Max enclosure in parallel					Max enclosure per controller		
584	2					8		
544	4					16		
524	8					32		
5CS	8					32		
5SP	2					4		
Enclosure	1	2	3	4	5	6	7	8
584	LF:4 Ω							
544	LF:8 Ω	LF:4 Ω	LF:2.7 Ω	LF:2 Ω				
524	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω	LF:3.2 Ω	LF:2.6 Ω	LF:2.3 Ω	LF:2 Ω
5CS	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω	LF:3.2 Ω	LF:2.6 Ω	LF:2.3 Ω	LF:2 Ω
5SP	LF:5.3 Ω / HF8 Ω	LF:2.65 Ω / HF4 Ω						

C15 Maximum number of enclosures per Amp

Enclosure	Max enclosure in parallel					Max enclosure per controller	
584	1					4	
544	3					12	
524	6					24	
5CS	6					24	
5SP	2					4	
Enclosure	1	2	3	4	5	6	
584	LF:4 Ω						
544	LF:8 Ω	LF:4 Ω	LF:2.7 Ω				
524	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω	LF:3.2 Ω	LF:2.6 Ω	
5CS	LF:16 Ω	LF:8 Ω	LF:5.3 Ω	LF:4 Ω	LF:3.2 Ω	LF:2.6 Ω	
5SP	LF:5.3 Ω / HF8 Ω	LF:2.65 Ω / HF4 Ω					



584 Controller Introduction



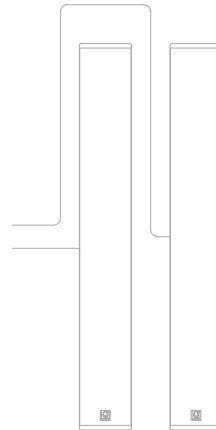
H600 Controller

2 Input x 2 Output Analog Type

2x NL4 SpeakOn

Max 1 enclosure in parallel For 584

Max 2 enclosure per controller For 584



VDA18 DSP Controller

4 Input x 4 Output Analog Type

2 Input x 2 Output AES3 Digital Type

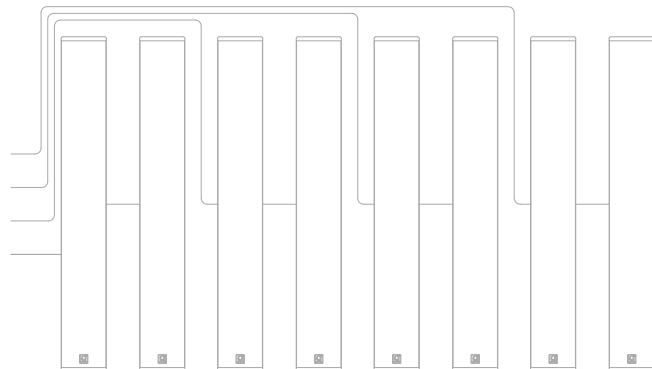
2 x RJ45 etherCON® (IN/OUT)

4 x NL4 SpeakOn

1 x 8pin PA-Com

Max 2 enclosure in parallel For 584

Max 8 enclosure per controller For 584



C15 Controller

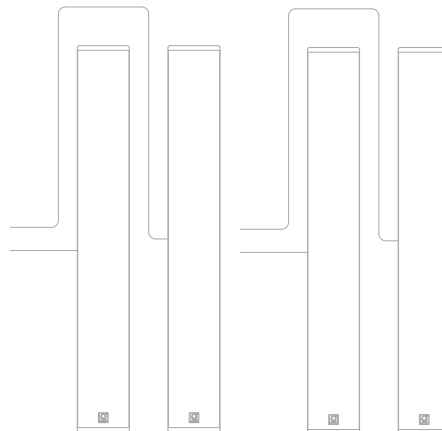
4 Input Analog Type

2 x NL4 SpeakOn

1 x 8pin PA-Com / NL8 SpeakOn

Max 1 enclosure in parallel For 584

Max 4 enclosure per controller For 584





544 Controller Introduction



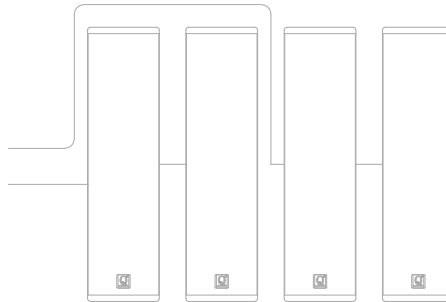
H600 Controller

2 Input x 2 Output Analog Type

2x NL4 SpeakOn

Max 2 enclosure in parallel For 544

Max 4 enclosure per controller For 544



VDA18 DSP Controller

4 Input x 4 Output Analog Type

2 Input x 2 Output AES3 Digital Type

2 x RJ45 etherCON® (IN/OUT)

4 x NL4 SpeakOn

1 x 8pin PA-Com

Max 4 enclosure in parallel For 544

Max 16 enclosure per controller For 544



C15 Controller

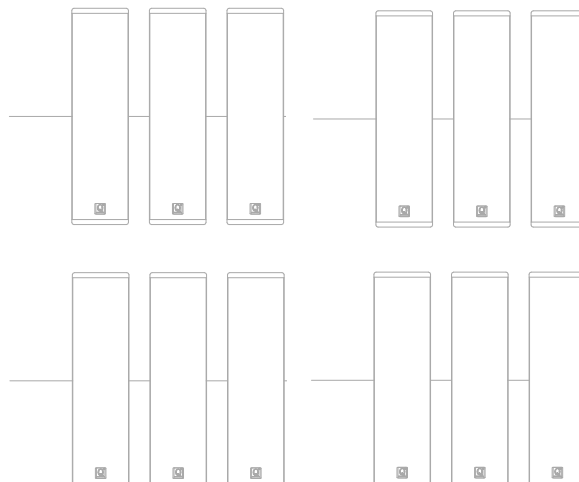
4 Input Analog Type

2 x NL4 SpeakOn

1 x 8pin PA-Com / NL8 SpeakOn

Max 3 enclosure in parallel For 544

Max 12 enclosure per controller For 544



524 Controller Introduction



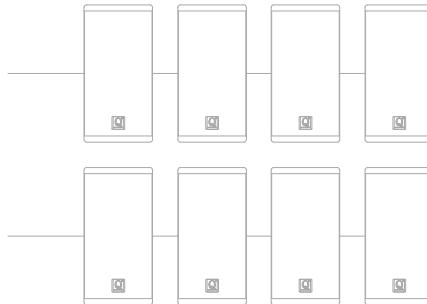
H600 Controller

2 Input x 2 Output Analog Type

2x NL4 SpeakOn

Max 4 enclosure in parallel For 524

Max 8 enclosure per controller For 524



VDA18 DSP Controller

4 Input x 4 Output Analog Type

2 Input x 2 Output AES3 Digital Type

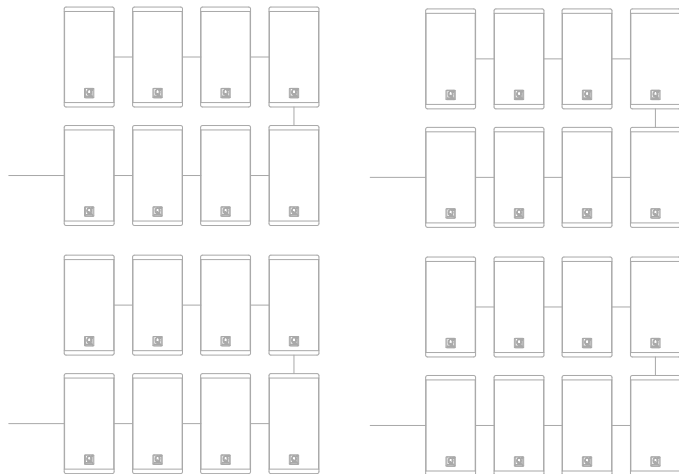
2 x RJ45 etherCON® (IN/OUT)

4 x NL4 SpeakOn

1 x 8pin PA-Com

Max 8 enclosure in parallel For 524

Max 32 enclosure per controller For 524



C15 Controller

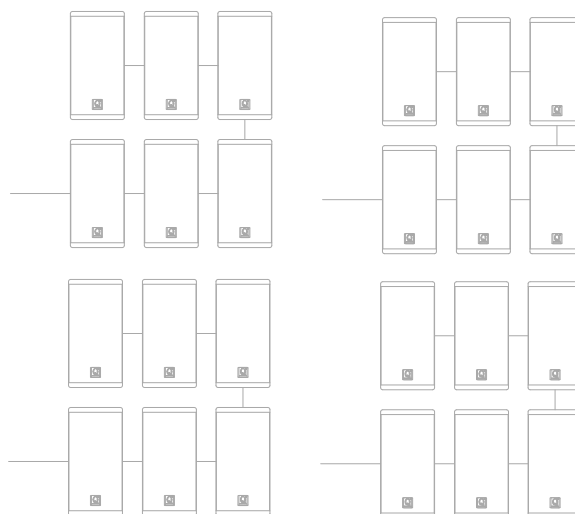
4 Input Analog Type

2 x NL4 SpeakOn

1 x 8pin PA-Com / NL8 SpeakOn

Max 6 enclosure in parallel For 524

Max 24 enclosure per controller For 524



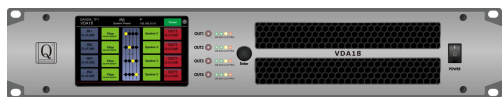
H600 / C15 System and processor Recommend



D36

D48









Controller View



VDA18

C15

Associated Enclosures

			
584	544	524	5CS
			
Xiv18	12Low/12Low Active	12LowX/12LowXActive	5SP