



# TC12

PASSIVE 2-way COAXIAL

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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 #TC12. The container shall contain - 1 #TC12 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](http://www.qanon-audio.com)).

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**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.**



# TC12 PASSIVE 2-way COAXIAL

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- 12" 2-way Full range coaxial monitor
- Maximum SPL 128dB
- 1 x 12" Ferrite low driver unit
- 1 x 1.75" Ferrite Compression driver
- 80 degree horizontal coverage angle
- 80 degree vertical coverage angle
- Monitor angle (1) 55° / 20°
- Ground stacking integrated assembly system
- Install Ø 35mm pole socket
- 13x M8 threaded insert

## TC12

TC12 is 2-way full frequency coaxial structure and high performance stage monitor, provide the frequency range of 60Hz-18kHz. Composed of a 12" low frequency and 1.75" high frequency compression unit, the constant directional diffusion angle, with a custom unit and waveguide technology, 80° x 80° can accurately cover the stage area. The monitor is matched with two kind angle. 55 degrees and 20 degrees, TC12 also can be used a powerful PA system.

Each side panel has M8 threaded insert, used for quick and flexible install. The right part of the box has Ø 35mm pole socket can be used for the installation of the sound box support. The bottom has rubber feet and provides antiskid function. The impedance of each loudspeaker for 8 ohms, and can be use 2-3 monitor for 1 group (4ohms / 2.7ohms)

The enclosure shall be fitted with internal hardware and connected via two parallel NL-4 speakOn.  
Dimensions: width: 447mm, height: 488mm, depth: 310mm  
weight: 16kg / 35.2lb



## TC12 Technical Specification

### TC12 Technical Specification

Type	Passive 2-way Coaxial Enclosure
Frequency Response(Preset)	60Hz-18kHz( $\pm 3$ dB)
Horizontal	80°
Vertical	80°
Monitor Angle	55°(1) 20°(2)
Drivers	LF: 1×12" (Ferrite) HF: 1×1.75" (Ferrite)
Handling Power (AES)	LF: 200W HF: 30W
Nominal Impedance	LF:8 $\Omega$ / HF:8 $\Omega$
Maximum Peak SPL	128dB/1m
Connections	2 x NL4 SpeakOn
Pin Connections	NL4=LF: +1-1
Width	447mm
Height	488mm
Depth	310mm
Weight	16kg / 35.2lb

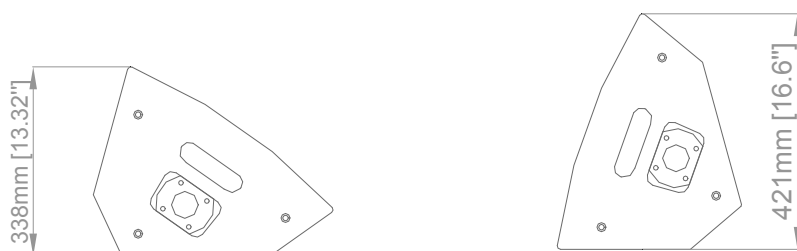
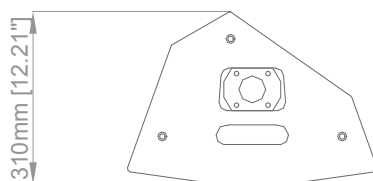
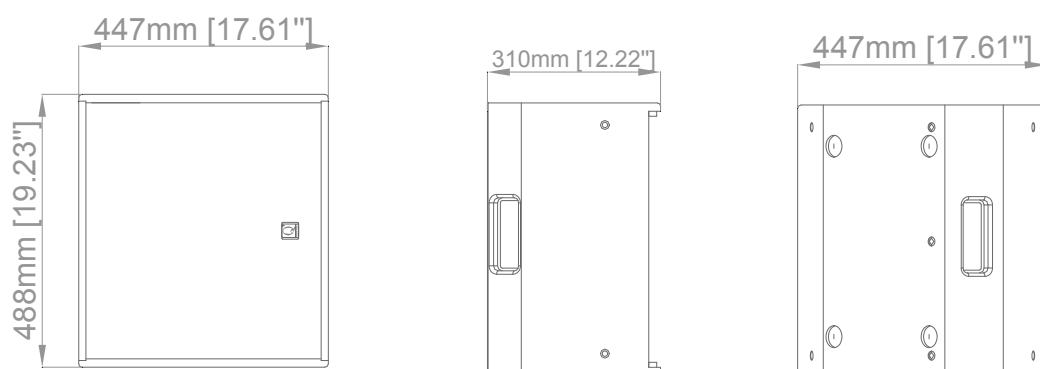
### Rigging and Handling

Handle	2 handles
Threaded	13x M8 threaded insert
Pole socket	1x 35mm Pole socket
stand bar	4x 10mm*38mm(H* $\varnothing$ )

### Physical Data

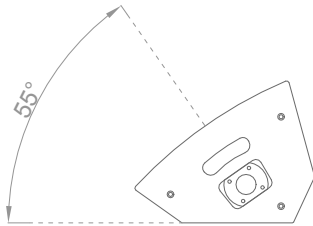
Material	Baltic Birch Plywood
Finish	Black
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

## Dimensions CAD

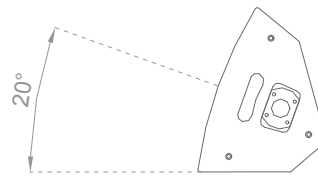


## Application

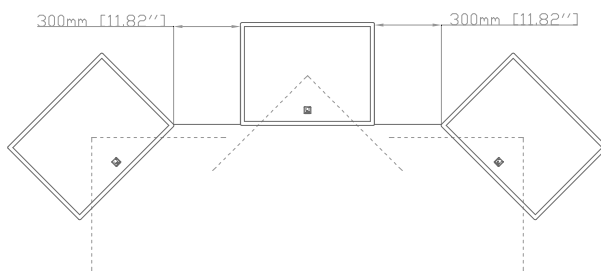
The design and application of TC12 coaxial monitor system can be used in many functions. The monitoring angle is matched with two kinds angles, 55 degrees and 20 degrees, TC12 and V18 / Xiv18 ultra low frequency loudspeaker ground stack integration. The addition support  $\varnothing 35\text{mm}$  pole socket can be used with Xiv18, providing fast and simple ground and stack application.



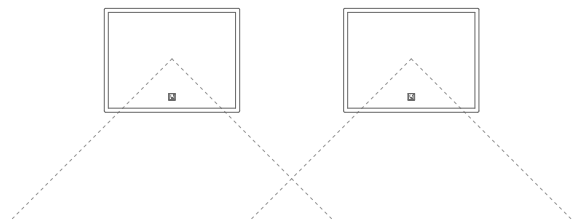
Monitor Angle 55° (Fig 1)



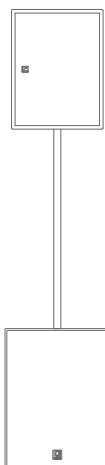
Monitor Angle 0° (Fig 2)



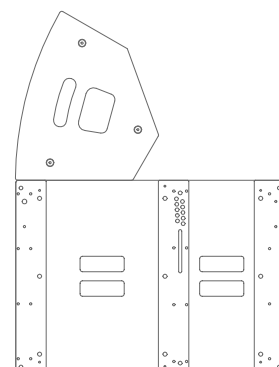
Separate Area (Fig 3)



Parallel Use (Fig 4)



FOH (Fig 5)



Monitor+sub (Fig 6)



## TRANSPORTATION ACCESSORIES

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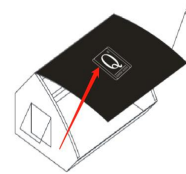
### TC12-Touring case:

removable front case on wheels (two TC12)



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### TC12-Cover: one TC12



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### Rigging Frame Accessories

TC12 / TC10 Circular Rigging(M8)



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### Speaker Cable

TC12 2Pin NL4 2 x 4 mm<sup>2</sup> (50cm)

TC12 2Pin NL4 2 x 4 mm<sup>2</sup> (15m)





## VDA18 / C15 Maximum number of enclosures per Amp

Enclosure	Max enclosure in parallel	Max enclosure per controller
TC15	3	12
TC12	3	12
TC10	3	12

## H600 Maximum number of enclosures per Amp

Enclosure	Max enclosure in parallel	Max enclosure per controller
TC15	1	2
TC12	2	4
TC10	3	6

Enclosure	1	2	3
TC15	LF :8 $\Omega$	LF: 4 $\Omega$	LF: 2.7 $\Omega$
TC12	LF :8 $\Omega$	LF: 4 $\Omega$	LF: 2.7 $\Omega$
TC10	LF: 8 $\Omega$	LF: 4 $\Omega$	LF: 2.7 $\Omega$
Connectors	TC15	TC12	TC10
NL4 2-Pin 2*4 <sup>2</sup>	LF = +1-1	LF = +1-1	LF = +1-1

## Controller Recommend



**VDA18**  
4x1400w 8ohm



**C15**  
4x1500w 8ohm



**H-600**  
2x600w 8ohm

## Associated Enclosures

TC15



TC12



TC10

