T15F / W Constant curvature line source

- **T series family - Lightweight**
- **141-143 dB   max SPL**
- **45m throw capability**
- **Horizontal or Vertical arrays**

- **110° Horizontal 15° or 30°**
- **Plug and play**
- **VDA Series Controller**
- **Weight 30kg / 32kg**

T15F is a medium throw loudspeaker designed for production applications. Part of the multifunctionnal T15 family, the Bi-amp 15 " enclosure offers exceptional deployment flexibility and simplicity without compromising performance.

With a tightly-controlled 15° enclosure coverage, T15F boasts an impressive ouptut of 143dB and ensures projection up to 45m.

Combinations of T15F and T15W can be flown or stacked to form a vertical line source. T15F can also be used individually as a configurable directivity point source for front fill or delay applications where a narrow coverage is required.

T15F provides the low frequency contour of a large concert system and T21 subwoofer further reinforces the contour and extends the bandwidth to 25Hz.

T15F is a highly scalable solution that delivers concert level performance for small to large events or supplements a larger QANON-AUDIO solution for the world's biggest stages.

The multifunctional T series comprises four medium throw loudspeakers and a dedicated subwoofer with flexible coverage options, adaptable directivity and up to 45 meters of throw. The T series delivers the performance of a large concert system in a plug-and-play solution that is easier to design and deploy. Scaling to a variety of applications, T Series loudspeakers can be used individually as a point source or combined to form vertical or horizontal line sources.

T15F 15°

T15W 30°

T21

T21 Subwoofer

- **T series family - Lightweight**
- **140 dB max SPL**
- **Simple and fast**
- **increase of efficiency**

- **Horizontal or vertical / cardioid**
- **Plug and play**
- **VDA Series Controller**
- **Weight 46kg**

T21 is a compact reference subwoofer that extends the bandwidth of T15 and T12 systems. T21 is characterized by small size, large energy and direct 21 "unit drive.

When associated with T21, the operating frequency of T21 is 25Hz to 60Hz with T15 or 25Hz to 100Hz associated with T12. T21 has four Inverted holes, which greatly reduces turbulence and box noise, and improves low-frequency efficiency.

T21 frequency response is optimized to achieve perfect coupling. Both systems have. T21 adopts four point integrated suspension system compatible with T15. The combination T21 and T15 can fly or stack to form a full range line source. The T21 also incorporates threaded inserts in a T15 or T12 rod mounting configuration.

T21 can be deployed in standard or cardioid configurations with dedicated presets for hanging and stacking deployment.

The multifunctional T series comprises four medium throw loudspeakers and a dedicated subwoofer with flexible coverage options, adaptable directivity and up to 45 meters of throw. The T series delivers the performance of a large concert system in a plug-and-play solution that is easier to design and deploy. Scaling to a variety of applications, T Series loudspeakers can be used individually as a point source or combined to form vertical or horizontal line sources.
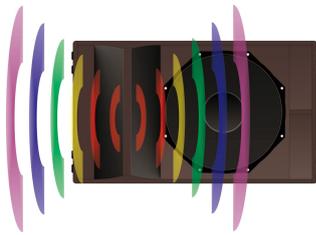
T15F 15°

T15W 30°

T21

T15F / W Coverage angle
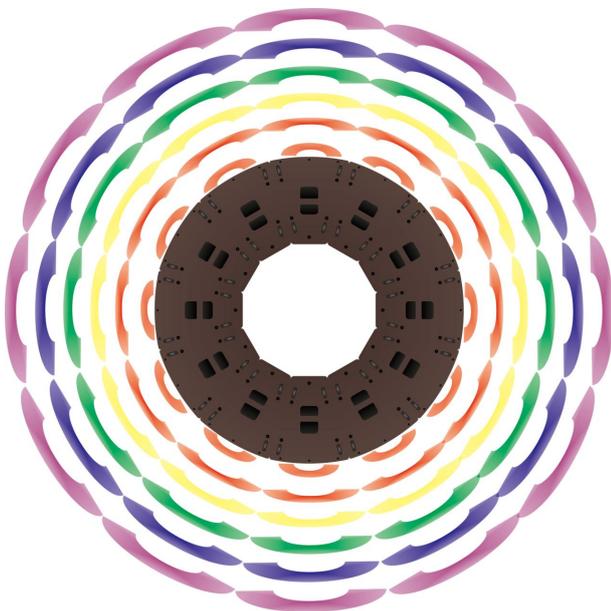
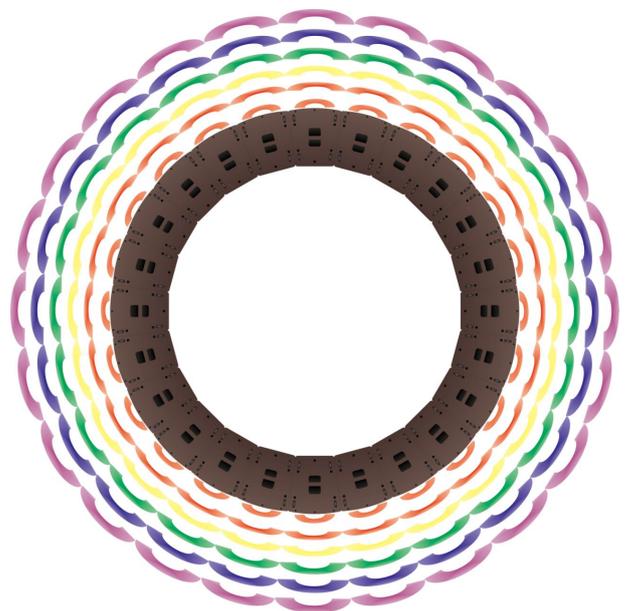**T15F 110° Horizontal**　　　**T15F 55° Vertical**　　　**T15F + T15WHorizontal**

T15F / W 360° Coverage angle

T15W 110° x 360° Vertical
12 x T15W

T15F 55° x 360° Vertical
24 x T15F

VDA12 VDA18 Controller

VDA12

- 4 x 600W RMS   16Ω
- 4 x 1200W RMS   8Ω
- 4 x 2000W RMS   4Ω
- 4 x 2000W RMS   2.7Ω

VDA18

- 4 x 1800W RMS   8Ω
- 4 x 3600W RMS   4Ω
- 4 x 4000W RMS   2.7Ω
- 4 x 4000W RMS   2Ω

VDA12 is the recommended amplified controller for T15 with two enclosure per output channel. This configuration delivers amazing plug-and-play performance and allows users to leverage the VDA Controller software optimization tools to further optimize the system response. VDA18 can be used to power and control up to 3 T15 per output channel. This configuration simplifies deployment and cable management but reduces optimization capabilities.
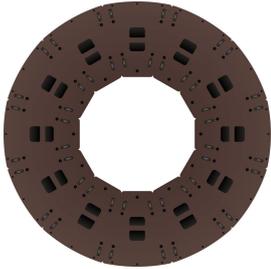
1 VDA12
4 T15 or 4 T21

1 VDA18
6 T15 or 8 T21

Use combination

T15 is a multifunctional solution that can be deployed in a wide variety of ways to address most applications. T15 can stand on its own for small to medium sized events or complement a variable curvature system on larger applications.

12 USE :

T15F	T15F + T15W	3 T15F + 1 T15W
3 T15F	2 T15F + 1 T15W	6 T15F
T21 + T15F + T15W	T21 + T15F + T15W	T21 + 2 T15F + 1 T15W
3 T15W	4 T15W	T15W 360°

T21 Subwoofer

T21: **Subwoofer**

System bandwidth: 25 Hz - 20 kHz

Ratio of 3 T15F/W+ 2 T21
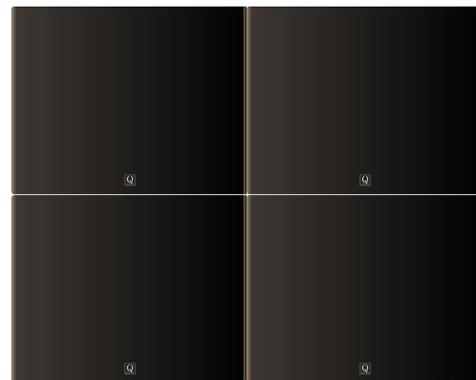
Preset : [T21_100Hz / 60Hz]

T21: **Subwoofer**

System bandwidth: 25 Hz - 20 kHz

Ratio of 4 T15F/W+ 4 T21

Preset : [T21_100Hz / 60Hz]

Software and Network

• The design of complex systems is made possible by the integration of the VDA Controller Ethernet-based network. Thanks to its high speed data transfer protocol of 1 Gbit/s, up to 254 units can be controlled and monitored in real-time by the VDA Controller software. Multiple network topologies are quickly and easily configurable for full flexibility in the required system architecture.

Network Monitoring and commissioning

VDA CONTROLLER
MAXIMUM LINK 245 SETS

2 X 1 GB/S RJ45 ETHERCO
DUAL PORT GIGABIT ETHERNET INTERFACE

T15F Technical Specification

T15F Technical Specification	
Type	Bi-amp 2-way constant curvature Enclosure
Amplifier Recommend	VDA12 / VDA14 / VDA18
Frequency Response(Preset)	40Hz-20kHz(-10dB)
Enclosure Angle	15°
Horizontal	100°
Drivers	LF：1×15"（Neodymium）
	HF：1×3"（Neodymium）
Handling Power (AES)	LF：500W
	HF：110W
Maximum Peak SPL	143dB/1m
Nominal Impedance	LF：8Ω / HF：16Ω
Connectors	2 x NL4 SpeakOn
Pin Connectors	IN = LF:+1-1 / HF:+2-2
	LINK = LF:+1-1 / HF:+2-2
Height Front	450mm
Height Back	321mm
Width	750mm
Depth	490mm
Weight	32kg / 70.5lbs
Rigging and Handling	
Handle	2 ergonomic handles
Rigging System	Flush-fitting two-point
Threaded	13x M10 threaded insert
Fastener	8 side fastener
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

T15F Dimensions CAD

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750mm [29.55"]

450mm [17.73"]

450mm [17.74"]

490mm [19.3"]

Front

750mm [29.55"]
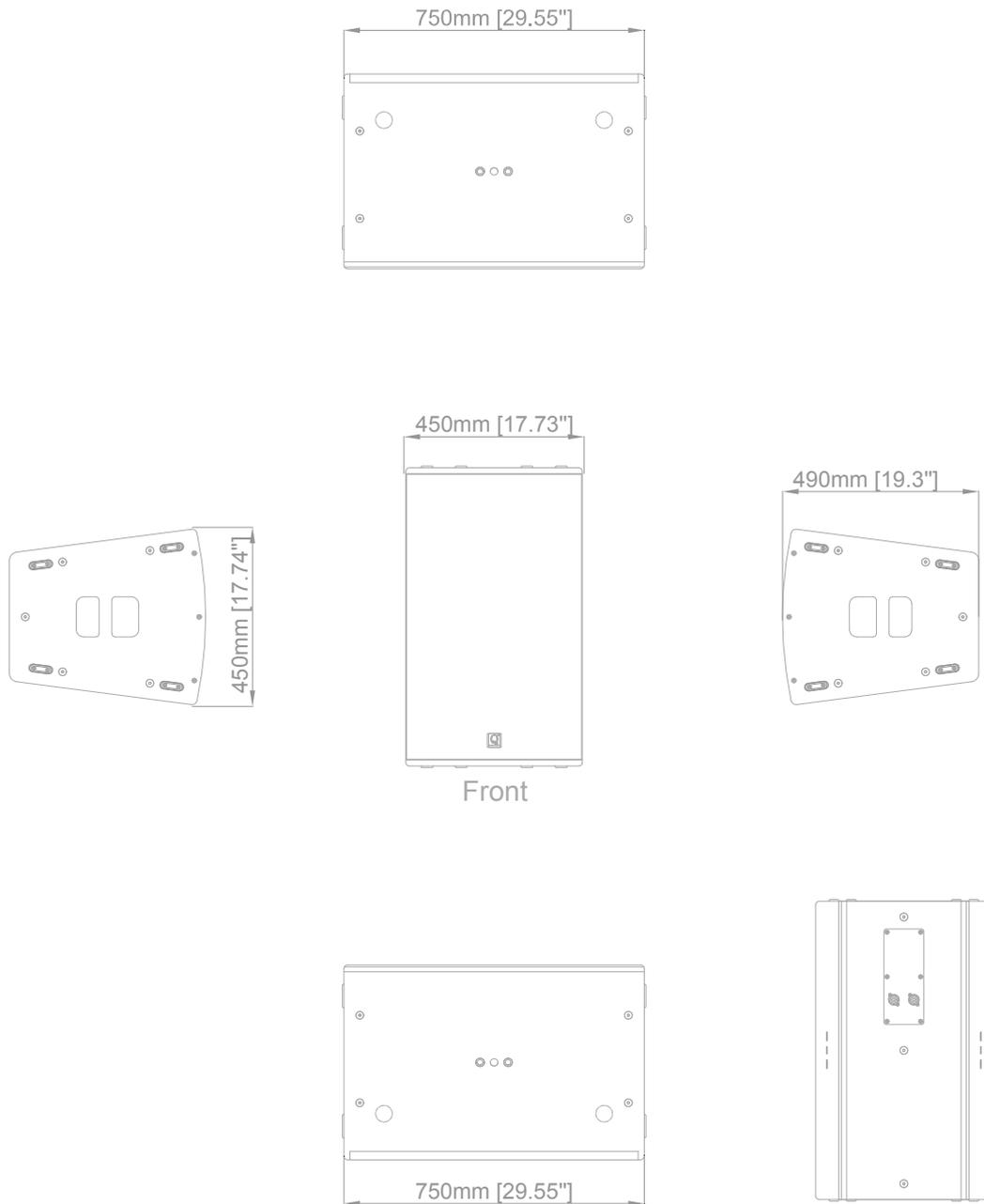
T15W Technical Specification

T15W Technical Specification	
Type	Bi-amp 2-way constant curvature Enclosure
Amplifier Recommend	VDA12 / VDA14 / VDA18
Frequency Response(Preset)	43Hz-20kHz(-10dB)
Enclosure Angle	30°
Horizontal	100°
Drivers	LF：1×15"（Neodymium）
	HF：1×3"（Neodymium）
Handling Power (AES)	LF：500W
	HF：110W
Maximum Peak SPL	141dB/1m
Nominal Impedance	LF：8Ω / HF：16Ω
Connectors	2 x NL4 SpeakOn
Pin Connectors	IN = LF:+1-1 / HF:+2-2
	LINK = LF:+1-1 / HF:+2-2
Height Front	450mm
Height Back	198mm
Width	750mm
Depth	490mm
Weight	30kg / 66lbs
Rigging and Handling	
Handle	2 ergonomic handles
Rigging System	Flush-fitting two-point
Threaded	13x M10 threaded insert
Fastener	8 side fastener
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

T15W Dimensions CAD

750mm [29.55"]

450mm [17.73"]

450mm [17.74"]

490mm [19.3"]

Front

750mm [29.55"]
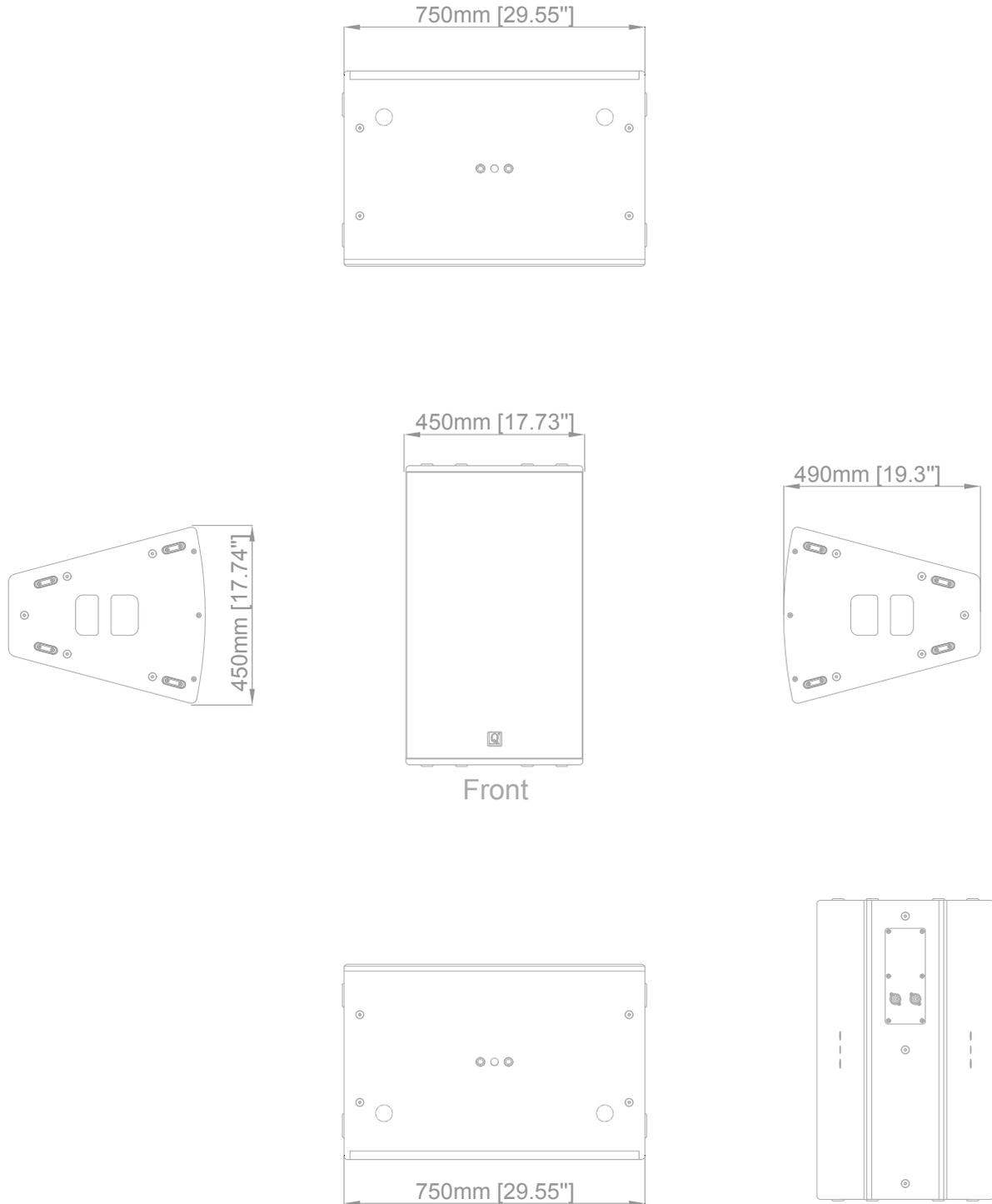
T21 Technical Specification

T21 Technical Specification	
Type	Subwoofer
Amplifier Recommend	VDA12 / VDA14 / VDA18
Frequency Response(Preset)	25Hz-200Hz(-10dB)
Horizontal	360°
Drivers	LF:1×21" Neodymium
Handling Power (AES)	LF：1600W
Maximum Peak SPL	140dB/1m
Nominal Impedance	LF:8 Ω
Connectors	2 x NL4 SpeakOn
Pin Connectors	IN = LF:+1-1
	LINK = LF:+1-1
Height Front	600mm
Height Back	600mm
Width	750mm
Depth	700mm
Weight	46kg / 101.4lbs
Rigging and Handling	
Handle	4 ergonomic handles
Pole socket	1x 35mm Pole socket
Threaded	12x M10 threaded insert
Antiskid	4 ground runners
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

T21 Dimensions CAD

700mm [27.58"]

750mm [29.55"]

700mm [27.58"]

600mm [23.64"]

750mm [29.55"]