Vela Ultra compact line sourcs

- **V series family - Lightweight**
- **138dB max SPL**
- **40m throw capability**
- **Fixed installation**

- **110° Horizontal**
- **Plug and play**
- **VDA12 Controller**
- **Weight 11kg**

Vela is long throw compact line array speaker designed for medium distance sound reinforcement applications with minimal visual impact.

Vela is equipped with two 6.5 inch speakers and one 1.75-inch diaphragm compression drivers in the bass reflector.

Vela has an excellent sound pressure level thanks to the design and power of the subwoofer. The maximum box impedance is 16 ohm.

The frequency of Vela is 70Hz-20kHz, with 110 °symmetrical horizontal directivity output. It has smooth response in the whole frequency range. In order to maintain the wavefront coherence, the maximum element angle is 12 ° and the internal passive frequency division network uses custom filter. VDA12/VDA18 power amplifier can ensure linearization and protection.

Voe

Vela

The latest release of **QANON AUDIO** is **Vela / Voe, a** small linear array speaker suitable for various sound reinforcement styles. Combined with the "excellent dynamic range and high performance" and "compact and durable high quality" of Qanon Audio **V10**, it can be used in **fixed installation** and **small-touring**, and can be installed and used quickly.

Physical Data

The enclosure made of birch plywood, which has high moisture resistance and impact resistance, and has remarkable acoustic characteristics. Vela weighs only 11kg / 24.2lb, and its compact elegance makes it easy to integrate in any case. White or black or dark gray, can be integrated into any building. The rated protection grade of the enclosure is IP45. The flush mounted hanger has the function of visual safety inspection.
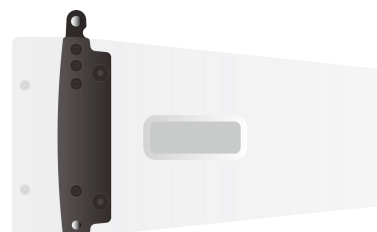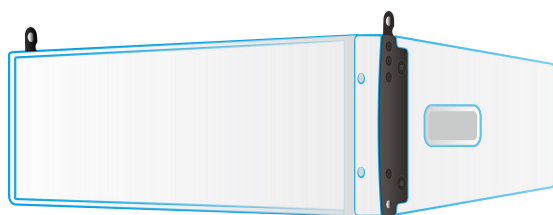
Vela Design concept
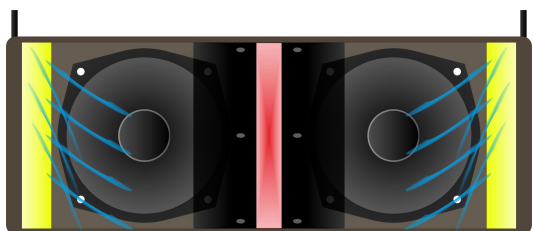
Vela use 2-way passive design，Two 6.5 inch neodymium magnetic low-frequency drivers and one 1.75-inch neodymium magnetic throat drivers are loaded。It is equipped with special strange sound speakers and adopts the same high-frequency Waveguide Horn technology as V series, which is suitable for frequency response phase coupling with all V series speakers.

The vertical plane correlation generated by its compact structure effectively reduces the internal turbulent noise, obtains the natural and strong low-frequency response of the box, and the balanced distribution of low-frequency and high-frequency drivers. In addition, the smooth coverage angle of the constant pointing 110 ° high-frequency horn can provide excellent consistent frequency response characteristics even in the off-axis area, The high-strength metal pendant can cascade up to 12 speakers in a vertical plane, and its vertical spacing angle can be adjusted with an accuracy of 2 degree between 0 ° ~ 12 °. Both in terms of energy output and coverage, vela acoustic performance has been improved to a higher level.
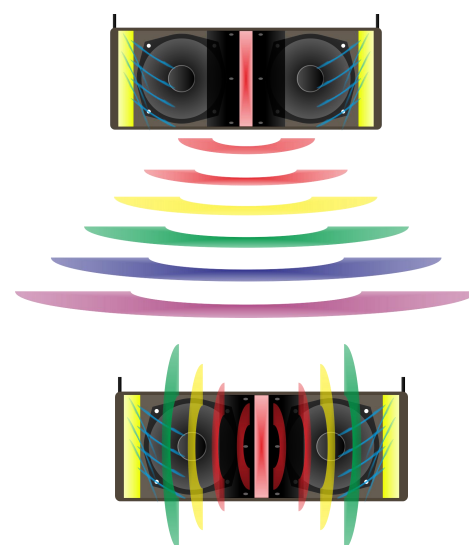
Product compatibility :

Vela is a true full range speaker. With extremely wide full frequency bandwidth and compact, the two features are compatible. The frequency response range is 70Hz to 20kHz. With VDA12 amplifier, the frequency response and phase curve can be exactly the same as that of V series, and the maximum sound pressure level can reach 138db. To obtain so much energy in such a compact structure, QANON adopts low-frequency laminar flow direct guidance technology, which is the same as that of ultra-low Vela-L speaker, Coupled with V18 excellent low-frequency dive and high-end extended phase coupling, the frequency bandwidth can be extended to 30Hz, so as to give full play to Vela energy.

| V12 | V10 | V18 | VS28 |

Vela-L Subwoofer

- **V series family - Lightweight**
- **134dB max SPL**
- **Simple and fast**
- **Increase of efficiency**

- **Horizontal or vertical**
- **Plug and play**
- **VDA Series Controller**
- **Weight 33kg**

The Vela-L features one direct radiating 15" speaker in a bass reflex tuned enclosure.It provides impact,sensitivity, low thermal compression and reduced
distortion. The vent features a progressive profile allowing laminar airflow and reduced turbulence noise even at the highest operating levels. These combined properties contribute to the sonic qualities of the Vela-L in terms of precision and musicality. The cabinet is made of first grade Baltic birch plywood to ensure maximum acoustical and mechanical integrity.
Vela-L subwoofers can be flown or ground-stacked as a standalone array or within a vertical Vela-L / Vela array. A pole-mount socket is integrated into the cabinet, for the mounting of one M and TC enclosure or two Vela enclosures.

VDA12 DSP controller

4 Input x 4 Output Analog Type
1 Input   AES3Digital Type
2 x RJ45 etherCON® (IN/OUT)
4 x NL4 SpeakOn
Max 2 enclosure in parallel For Vela-L
Max 8 enclosure per controller For Vela-L
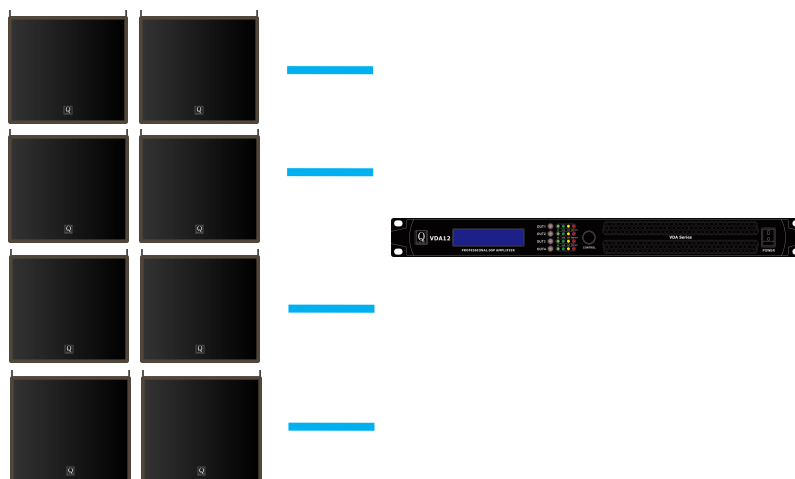
VDA12 VDA18 Controller

VDA12

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

VDA18

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

VDA12 is the recommended amplified controller for Vela with 4 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.

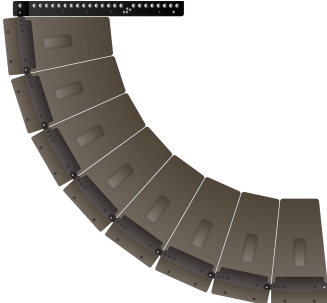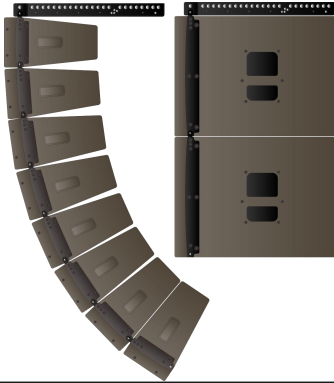**VDA18 can be used to power and control up to 6 Vela per output channel. This configuration simplifies deployment and cable management but reduces optimization capabilities.**

1 VDA12
16 Vela

1 VDA18
24 Vela
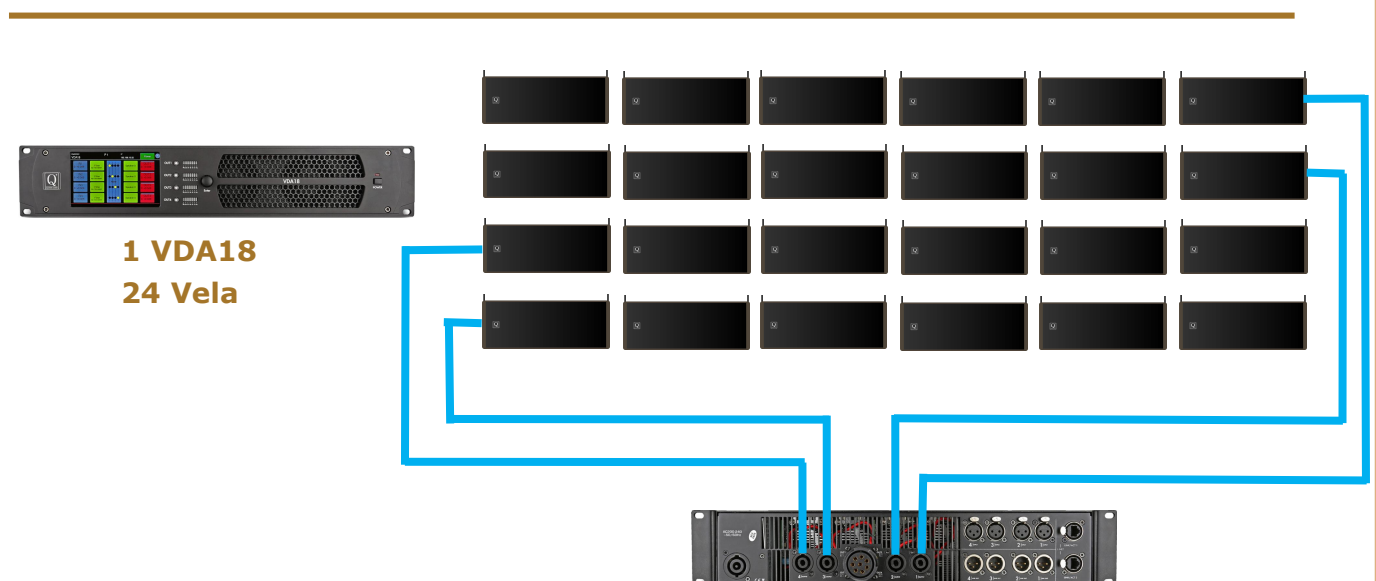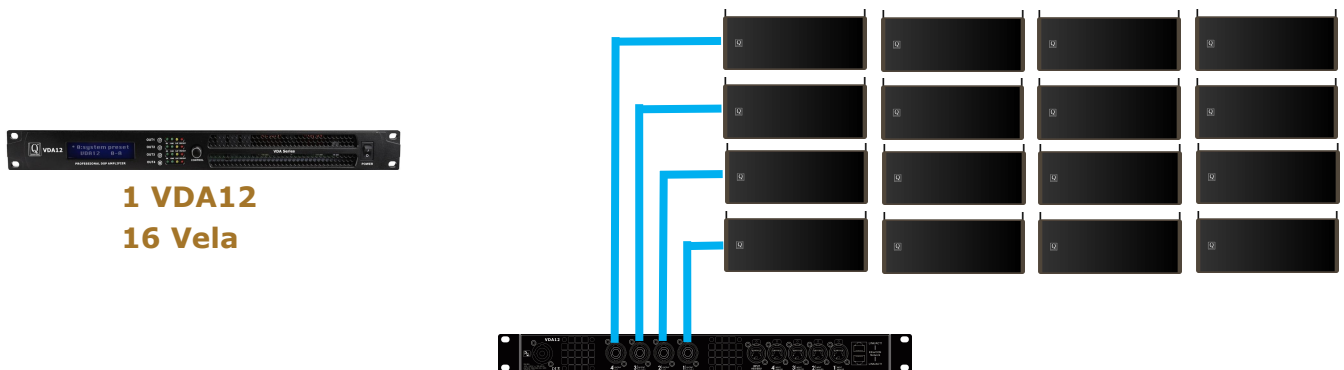
Use combination - *1*
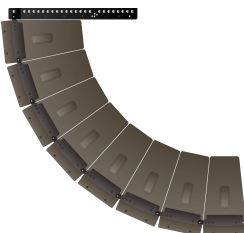
Vela is a multifunctional solution that can be deployed in a wide variety of ways to address most applications. Vela can stand on its own for small to medium sized events or complement a variable curvature system on larger applications.

9 Combinations:

2 Vela + 1 VelaL	**4 Vela + 2 VelaL**	**4 Vela**
4 Vela + 1 VelaL	**4 Vela + 2 VelaL**	**8 Vela + 2 VelaL**
8 Vela	**8 Vela + 2 VelaL**	**8 Vela + 2 VelaL**

Use combination - 2

Vela for Fill	Vela for Hybrid	Vela for FOH
System Bandwidth: 36Hz-20kHz	System Bandwidth: 36Hz-20kHz	System Bandwidth: 36Hz-20kHz
Ratio：2 x Vela+ 1 x VelaL	Ratio：4 x Vela+ 2 x VelaL	Ratio：8 x Vela+ 2 x VelaL
Preset：[Vela_FI]+ [VelaL_100]	Preset：[Vela_Hybrid+ [VelaL_100]	Preset：[Vela_FOH+ [VelaL_100]
Amplifier：VDA12	Amplifier：VDA12	Amplifier：VDA12
Ch1:2 x Vela / Ch2:1 x VelaL	Ch1:4 x Vela / Ch2:2 x VelaL	Ch1:4 x Vela / Ch2:4 x Vela
Ch1:3 x Vela / Ch4:1 x VelaL	Ch1:3 x Vela / Ch2:4 x VelaL	Ch3:2 x VelaL / Ch4:None

Max for 4 Vela 2VelaL	Max for 16 Vela	Max for 8 VelaL
System Bandwidth: 36Hz-20kHz	System Bandwidth: 70Hz-20kHz	System Bandwidth: 36Hz-200Hz
Ratio：4 x Vela + 1 x VelaL	Ratio：8 x Vela	Ratio：8 x VelaL
Preset：[Vela_Hybrid]	Preset：[Vela_FOH]	Preset： [VelaL_100]
Amplifier：VDA12	Amplifier：VDA12	Amplifier：VDA12
Ch1:4 x Vela / Ch2:1 x VelaL	Ch1:4 x Vela / Ch2:4 x Vela	Ch1:4 x Vela / Ch2:4 x Vela
Ch3:4 x Vela / Ch4:2 x VelaL	Ch3:4 x Vela / Ch2:4 x Vela	Ch3:2 x VelaL / Ch4:None

Vela Technical Specification

Vela Technical Specification	
Type	2-way passive line source enclosure
Frequency Response	70Hz-20kHz
Amplifier Recommend	VDA12
Preset	[Vela] FOH / [Vela] FI
Horizontal	110°
Angle Increments	0° 2° 4° 6° 8° 10° 12°
Drivers	LF:2×6.5" Neodymium
	HF:1×1.75" Neodymium
Handling Power (AES)	LF:400W
	HF:60W
Maximum Peak SPL	138dB/1m
Nominal Impedance	16Ω
Connections	2 x NL4 SpeakOn
Pin Connections	NL4=LF:+1-1
Height Front	187mm
Height Back	126mm
Width	500mm
Depth	350mm
Weight	11kg / 24.2lb
Rigging and Handling	
Handle	2 ergonomic handles
Antiskid	N/C
Fastener	3 side fastener
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

Vela Dimensions CAD

284mm [11.19"]

500mm [19.7"]

187mm [7.38"]

212mm [8.37"]

126mm [4.96"]

350mm [13.79"]
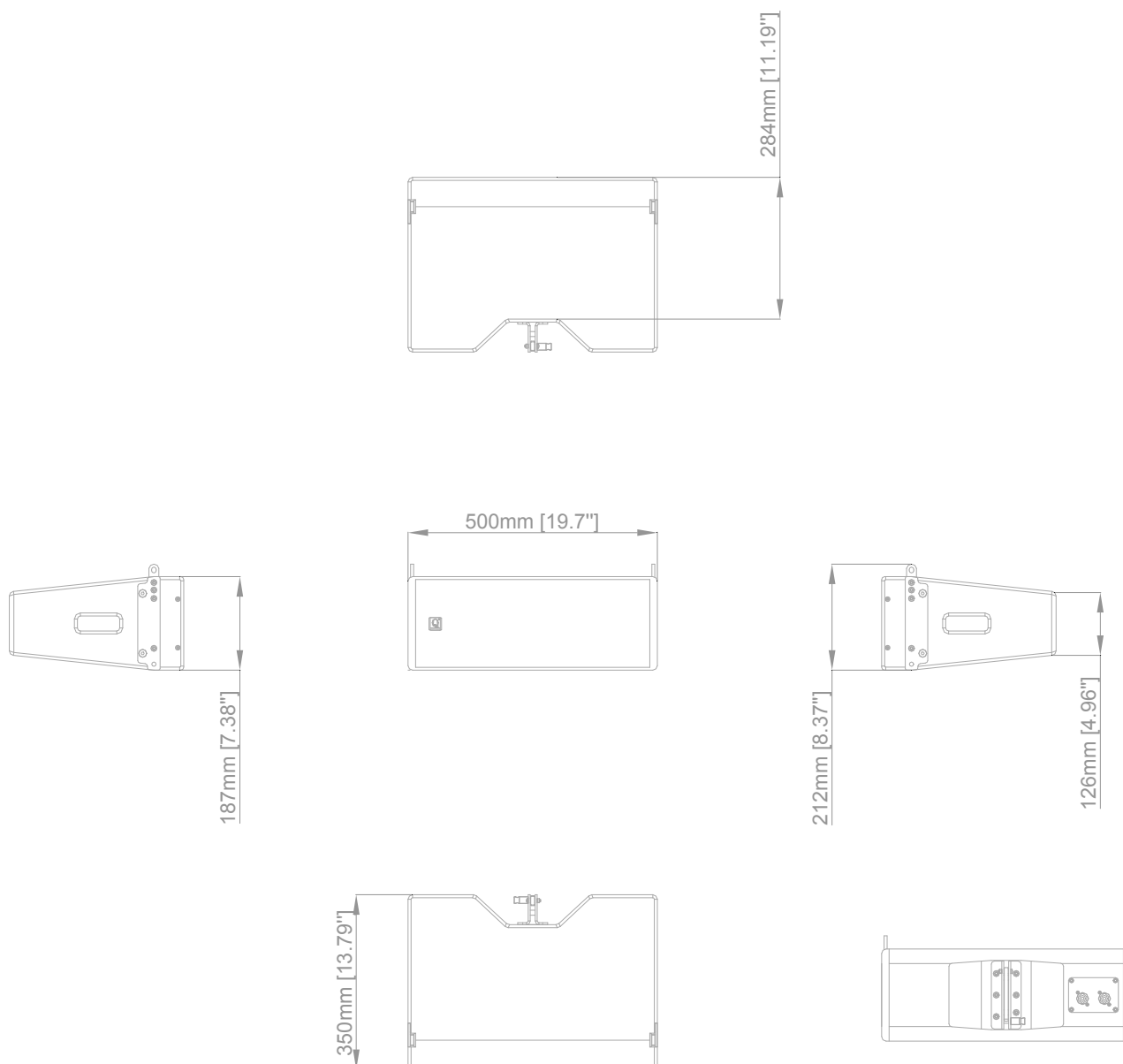
Vela-L Technical Specification

Vela-L Technical Specification	
Type	Ultra compact Extend woofer
Frequency Response	36Hz-200Hz
Amplifier Recommend	VDA12
Preset	[VelaL_100] / [VelaL_125]
Horizontal	360°
Angle Increments(Vela)	0° 2° 4° 6°
Drivers	LF:1×15" Neodymium
Handling Power (AES)	LF:1200W
Maximum Peak SPL	134dB/1m
Nominal Impedance	LF:8Ω
Connections	2 x NL4 SpeakOn
Pin Connections	NL4=LF:+1-1
Height Front	450mm
Height Back	450mm
Width	500mm
Depth	600mm
Weight	33kg / 72.7lb
Rigging and Handling	
Handle	2 ergonomic handles
Pole socket	1 x 35mm Pole socket
Fastener	3 side fastener
Physical Data	
Material	Baltic Birch Plywood
Finish	Dark Grey
Front	Polyester powder-coated steel grill
Rigging	Steel
Protection rating	IP45

Vela-L Dimensions CAD

250mm [9.85"]

500mm [19.7"]

450mm [17.73"]

475mm [18.72"]

600mm [23.64"]