Digitally Steerable Powered Column Array Loudspeaker with 16 Independently Controlled Drivers, Integrated DSP and BeamEngine GUI Control for Installation Applications

- Digitally steerable column array speaker system provides extremely high intelligible speech and music reinforcement
- Class leading ±70° steering control with 16 channels of integrated DSP and amplification
- Intuitive BeamEngine GUI for asymmetric pattern creation and even near and far field SPL coverage
- Ideal for the most challenging acoustic environments due to extended frequency range steering control
- 8 3" low frequency drivers and 8 1" high frequency drivers with individual 100 Watt Class D amplifiers and integrated cutting edge DSP
- For installation applications with coverage distances up to 25 m (82')
- High density array of transducers with proportional frequency spacing prevents aliasing artefacts
- Fully integrated amplified speaker system connects to other TANNOY VNET enabled products
- Accessory options for constant voltage systems, Audinate Dante* digital audio networks, Ethernet control, and AES3 break in interface
- AES3 input and link connections on RJ-45 connectors with internal sample rate conversion up to 96 kHz
- Fully PA/VA compliant
- Architecturally styled aluminium enclosure with a semi matt white painted finish







networking platform, which comprises both software and hardware DSP components that produce extremely-high speech intelligibility, impactful music reinforcement, and complete loudspeaker system diagnostics and monitoring.



Class-Leading Control

While many competing steerable arrays allow only a modest steering range across specific frequencies, the QFLEX 16 has a class-leading $\pm 70^{\circ}$ steering control, plus 16 channels of integrated DSP and amplification for consistent and highly intelligible full-range voice and music applications.



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- Corrosion resistant aluminium perforated grille
- Included custom brackets allow quick and accurate installation
- 3-Year Warranty Program*
- Designed and engineered in the U.K.

A Revolution in Sound Technology

digitally first steerable column array loudspeaker of its kind, QFLEX 16's revolutionary BeamEngine technology steers the the full-range sound away from surfaces that cause reflections. The intuitive BeamEngine GUI allows the designer to specify target areas. Rather than only providing a limited palette of opening and steering angles, the BeamEngine GUI generates a steering algorithm that is tailored for that specific area. The resulting asymmetrical pattern delivers similar sound pressure levels (SPL) in both the near and far field for superb coverage and intelligibility - all in a very aestheticallypleasing package.



(3 silent cut reflector) 36 32 28 24 20 16 12 8 4 0 0 2 4 6 8 12 16 20 24 28 32 36 40 44 4

Drivers, Power & DSP

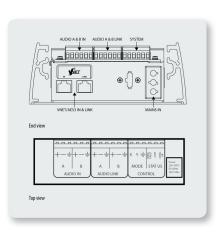
The QFLEX 16 column array loudspeaker comprises eight 3" low frequency drivers and eight 1" high frequency drivers, each with their own individual 100 Watt Class D amplifier and integrated cutting edge DSP. Presented in a high density array with proportional frequency spacing, QFLEX 16's drivers provide digitally-steerable coverage for distances up to 25 m (82') – with no aliasing artefacts. A robust internal DSP engine works seamlessly with the proprietary VNET and BeamEngine software, both of which are available for free download here.



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Scalability

Designed to provide premium-grade performance as a standalone self-powered column array, QFLEX 16 is also an exceptional choice for multiple-column configurations consisting of other TANNOY VNET enabled products. Implementation of the network between nodes is via high-quality rugged Neutrik Ethercon connectors, which are compatible with standard RJ45 plugs, and CAT5 cable. Each speaker has a unique address for auto-location on the network.





System Add-Ons

A wide range of accessory options are available for the VNET-enabled QFLEX 16 including: The VNET ETHERNET INTERFACE; VNET USB RS232 INTERFACE; VNET2-AES INTERFACE, VNET INTERFACE POWER SUPPLY; VNET INTERFACE RACK MOUNT; SENTINEL SM1, for monitoring VNET networked PA/VA systems, as well as the QFLEX ISOLATOR, for eliminating potential ground/hum issues.

PA/VA Compliant

Engineered for the ultimate in reliability, QFLEX 16's high level of telemetry functionality renders it fully PA/VA compliant for use in any life safety or mass notification environment.





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Build Quality

The architecturally styled corrosion resistant aluminium enclosure and perforated grille are finished in a semi matt white paint. The QFLEX 16 also includes the necessary custom mounting hardware for quick and accurate installation. Mains input and output link power connectors are Neutrik powerCON.

You Are Covered

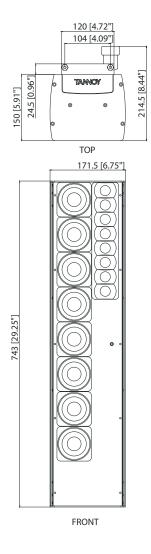
We always strive to provide the best possible Customer Experience. Our products are made in our own MUSIC Group factory using state-of-the-art automation, enhanced production workflows and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous 3-Year Warranty program.

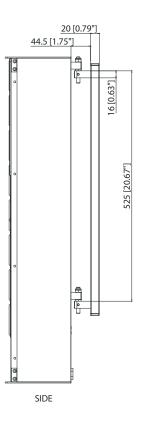


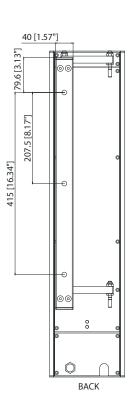


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Dimensions









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Technical Specifications

Confirmation	
Configuration	
3" LF	8
1" HF	8
No. of Amp Channels	16
100 W (RMS) @ 4 0hms	
Vertical Dispersion	Variable between 10 - 100 degrees (Asymmetric & multiple beams may also be generated)
Frequency Range	130 Hz - 20 kHz
Horizontal Dispersion	120 degrees
Aiming Angle Limit	± 70 degrees
LF Beam Control Limit	700 Hz
Maximum SPL @ 100 ft (30 m)*	94 dB
Column Height	744 mm (29.3")
Column Width	171.5 mm (6.7")
Column Depth	150 mm (5.9")
Typical Application Distance**	25 m (82 ft.)
Sample Rate	96 kHz
Audio Inputs	Analogue & AES/EBU
Net Weight	13 kg (28.6 lbs)
Accessories	SM1, VNET ETHERNET INTERFACE, VNET USB RS232 INTERFACE, VNET2-AES INTERFACE, VNET INTERFACE POWER SUPPLY, VNET INTERFACE RACK MOUNT, QFLEX ISOLATOR
Mains supply	100-230 V~ 50/60 Hz
Max Input power/watts	280

^{*} Average spl (1 khz -8 khz). Based on a mounting height of 10 m (33 ft) and a target area @ 30m (98.5 Ft) and 10 m (33 ft) wide.

Maximum attainable spl is dependant on the dimension of the target area(s). Exact figures can be derived in the beamengine™ programme.



^{**} Based on the above venue criteria achieving 95 db spl at the quoted distance.





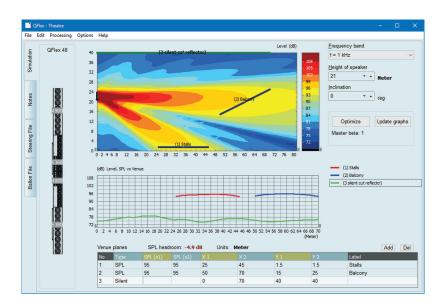


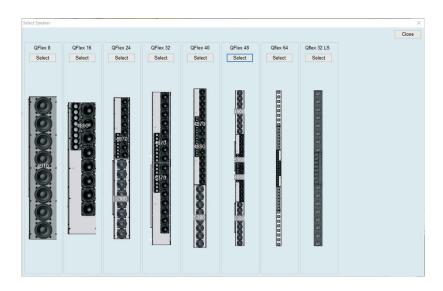






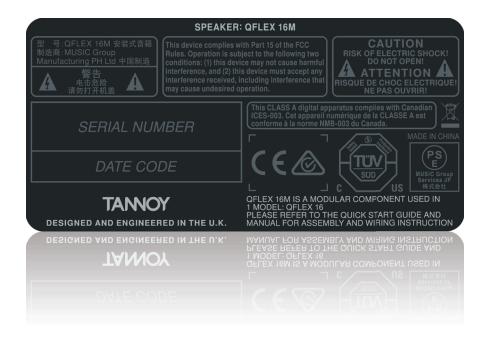








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For service, support or more information contact the TANNOY location nearest you:

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