

NUQ SERIES ENGINEERING INFORMATION

The NuQ-6 is an ultra-compact loudspeaker system designed for use in a wide range of portable speech and music sound reinforcement applications.

The NuQ-6 loudspeaker is designed to work in conjunction with a Turbosound LMS Series loudspeaker management system and Turbosound T series amplifiers. This combination provides the optimum performance for small applications as well as offering considerable flexibility to readily adapt to varying venue requirements.

Alternatively a high performance compact sound reinforcement package can be assembled consisting of a combination of NuQ-6 and B-12DP subwoofer cabinets. The B-12DP includes a 2 x 1250w Class D amplifier module with integral DSP which provides sufficient power to drive up to four NuQ-6 satellite speakers. In addition a high degree of system control can be achieved by integrating NuQ loudspeakers into a BVNet network using TurboDrive™ control software.

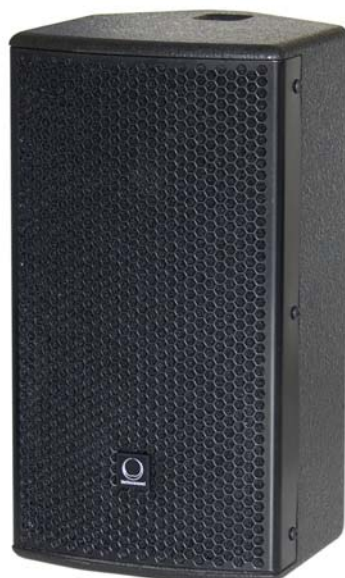
The passive two-way NuQ-6 loudspeaker features a front-loaded 6.5" neodymium low frequency driver and a proprietary 1" neodymium high frequency compression driver on a rotatable 90°H x 60°V HF Converging Elliptical (CEW™) waveguide matched with an internal passive crossover

network in a reflex-loaded enclosure. The comparatively short HF flare allows accurate physical alignment of the HF and LF devices, and ensures that the wavefront is shaped smoothly while giving excellent pattern control. The waveguide can be rotated through 90° within the enclosure, making it possible to swap the horizontal and vertical coverage patterns.

The cabinet is constructed from 12mm (1/2") birch plywood, screwed and glued together for maximum strength and rigidity, and includes a steel mesh grille backed with reticulated foam. It is finished in durable black semi-matt textured paint; white textured paint is optionally available. Its asymmetrical shape, together with the possibility to rotate the HF horn pattern, creates an additional role for monitor wedge or lip-fill applications.

The cabinet includes multiple rigging points for use with optional flying yokes and swivel brackets, allowing it to be permanently installed or mounted on straight poles or speaker stands.

The NuQ-6 is equipped with three Neutrik Speakon NL4MP connectors for loop in and loop out connections to additional enclosures.



FEATURES

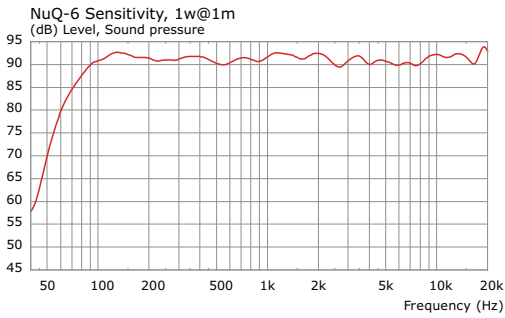
- CEW™ technology**
- Rotatable HF waveguide**
- Ultra compact enclosure**
- Multiple rigging points**

APPLICATIONS

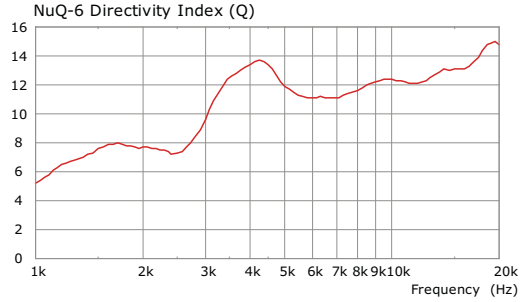
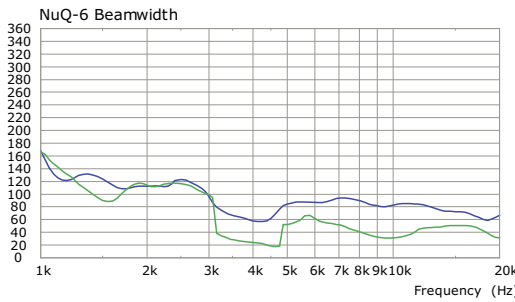
- Front of house**
- Floor monitoring**
- Dry hire and rental**
- Theatre**
- Audio-visual**
- Houses of Worship**
- Corporate / industrial**

DIMENSIONS (HxWxD)	350mm x 190mm x 210mm (13.8" x 7.5" x 8.3")	
NET WEIGHT	6.5kg (14.3lbs)	
COMPONENTS	1 x 6.5" (165mm) LF driver, 1 x 1" (25mm) HF driver on a Converging Elliptical Waveguide™	
FREQUENCY RESPONSE	80Hz - 20kHz ±3dB; 60Hz - 20kHz ±10dB	
NOMINAL DISPERSION	90°H x 60°V@-6db points. Rotatable waveguide allows swap of horizontal and vertical pattern	
POWER HANDLING	200 watts continuous, 400 watts program Recommended amplifier power: 400 watts @ 16 ohms	
SENSITIVITY	92dB	
CALCULATED MAX SPL	115dB continuous, 121dB peak	
CROSSOVER	Internal passive crossover at 4kHz	
CONTROLLERS	Turbosound LMS-D series controllers	
NOMINAL IMPEDANCE	16 ohms	
CONSTRUCTION	12mm (1/2") birch plywood; rebated, screwed and glued. Finished in black semi-matt textured paint.	
GRILLE	Powder coated perforated steel with acoustically transparent reticulated foam	
CONNECTORS	(3) Speakon NL4MP, wired pin1+: positive, pin1-: negative, pins 2+ and 2- n/c	
FLYING HARDWARE	M8 rigging points for NuQ-SB6 swivel brackets and NuQ-FY6 flying yokes and M8 shoulder eyebolts	
SPARES AND ACCESSORIES	LS-6509	6.5" (165mm) LF loudspeaker
	RC-6509	Recone kit
	CD-115	1" (25mm) HF compression driver
	RD-115	Replacement HF diaphragm
	PX-NuQ6	Crossover network
	MG-NuQ6	Replacement grille
	NuQ-FY6	Flying yoke
	NuQ-SB6	Swivel bracket
	PB-55	Wall bracket, pole mount fixing

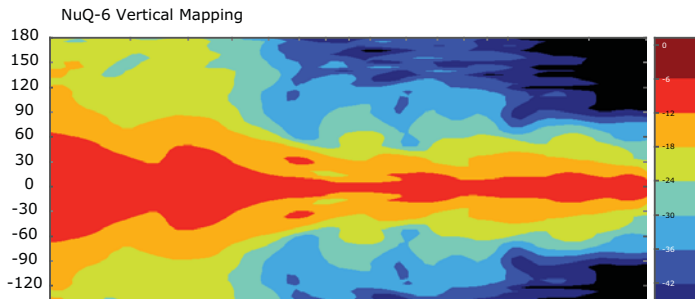
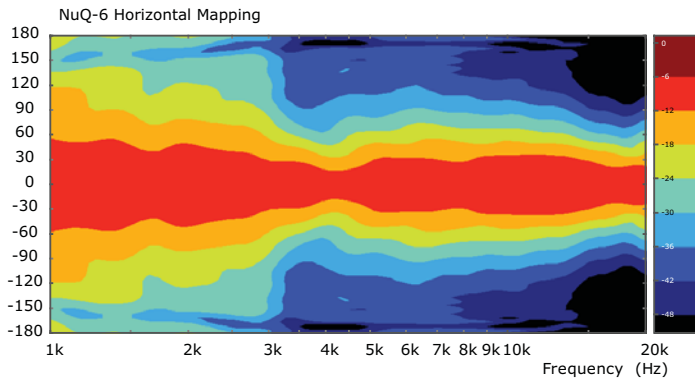
FREQUENCY RESPONSE



BEAMWIDTH AND DIRECTIVITY



CONTOUR MAPS



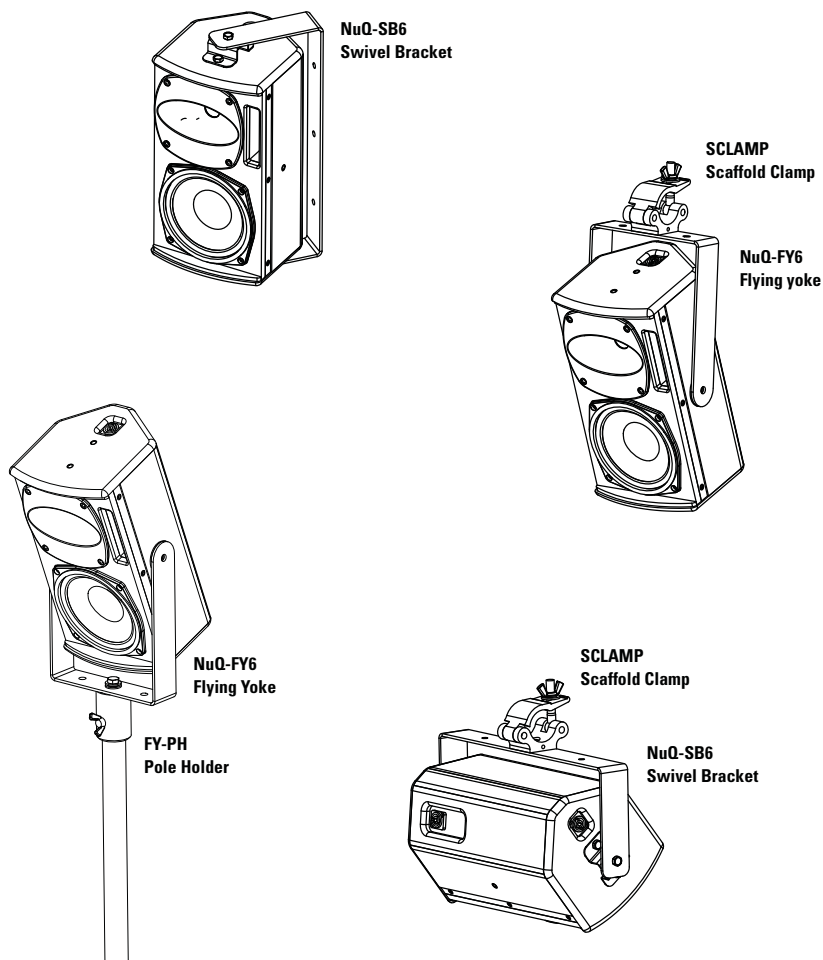
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The cabinet is fitted with rigging points on the top, bottom and sides which allow it to be flown or mounted in a variety of ways to suit differing applications.

An adjustable flying yoke enables the cabinet to be fixed to a truss with optional scaffold clamps, or in conjunction with a pole mount adapter on straight poles or speaker stands, with the ability to rotate the loudspeaker and angle it downwards.

Swivel brackets allow the cabinet to be mounted either horizontally or vertically and fixed to walls, ceilings or trussing.

FLYING AND RIGGING HARDWARE



**ARCHITECTURAL
& ENGINEER'S
SPECIFICATIONS**

The system shall be of the passive two-way loudspeaker type consisting of one 6.5" (165mm) LF driver and one 1" (25mm) HF driver on a rotatable Converging Elliptical Waveguide™. Performance specifications of a typical production unit when used with a Turbosound LMS series digital loudspeaker management system shall meet or exceed the following: Frequency response, measured with swept sine wave input, shall be flat within $\pm 3\text{dB}$ from 80Hz to 20kHz, and within $\pm 10\text{dB}$ from 60Hz to 20kHz. Nominal dispersion, at -6dB points, shall average $90^\circ\text{H} \times 60^\circ\text{V}$. Power handling shall be 200 watts continuous, 400 watts program. Nominal impedance shall be 16 ohms. Maximum SPL (peak) measured with music program at stated amplifier input shall be 121dB. Dimensions: 350mmH x 190mmW x 210mmD (13.8"H x 7.5"W x 8.3"D). Weight: 6.5kg (14.3lbs). The loudspeaker system shall be the Turbosound NuQ-6. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

DIMENSIONS

