



Tornado KT2 - KT2C

2" point source multipurpose loudspeaker

FEATURES

- High performance-to-size ratio
- Single 2" long excursion full range driver
- Wide-range frequency response
- Integrated 4-pin Phoenix connector
- Double voice-coil driver for variable impedance (8/32 Ω)
- Available also in a 70V version
- Compact aluminium ultra strong chassis
- Weather proof, suitable for outdoor installations - IP54

APPLICATIONS

- Audio for museum and exhibit displays
- Space sensitive fills and distributed systems for speech and music
- Restaurants, pubs, clubs
- Department stores
- Installed audio-visual systems

ACCESSORIES

KA1-T2H, K-AL15, K-AL66, K-AL75, K-AL120, K-AL240

COLORS AVAILABLE

BLACK  WHITE 



KT2 and KT2W (W: White)



KT2C and KT2CW (C: Ceiling, W: White)

DESCRIPTION

K-array Tornado KT2 - KT2C miniature sound source is a passive loudspeaker designed for high-quality distributed systems. Housed in a compact aluminum enclosure, the Tornado series is especially suitable for installations involving space limitations and visibility concerns. Tornados have flexible and easy-to-configure mounting options. With its ability to effortlessly reproduce both speech and music, it makes an excellent choice for fixed applications such as theatre, museum displays, restaurants, portable systems for corporate AV presentations, department stores, and in hidden locations such as chancel steps in houses of worship; the applications are endless.

The Tornados are a turn-key loudspeaker solution; designed as passive speakers, they can be easily converted into self-powered devices by inserting the KA1-T2 12V/24V amplifier module.

All Tornado models are also available in a 70V version that can be powered with up to 100 units by a single KA84 amplifier channel and up to 50 units by two bridged KA24 amplifier channels.

Tornados have a proprietary 2" high efficiency drive unit with a neodymium magnet structure and a suspension engineered for maximum linear excursion and minimum residual transducer interference. The cone transducer delivers an impressive maximum peak SPL of 107dB, and has a wide operating frequency range from 150 Hz to 18 kHz with very low distortion.

The KT2 and KT2W come with a wall bracket for fixed installations or surface applications. The KT2C and KT2CW come with a ceiling bracket for ceiling mounts.

All the components are designed in-house at our Florence based R&D department. They are custom manufactured to our exacting standards and quality control.



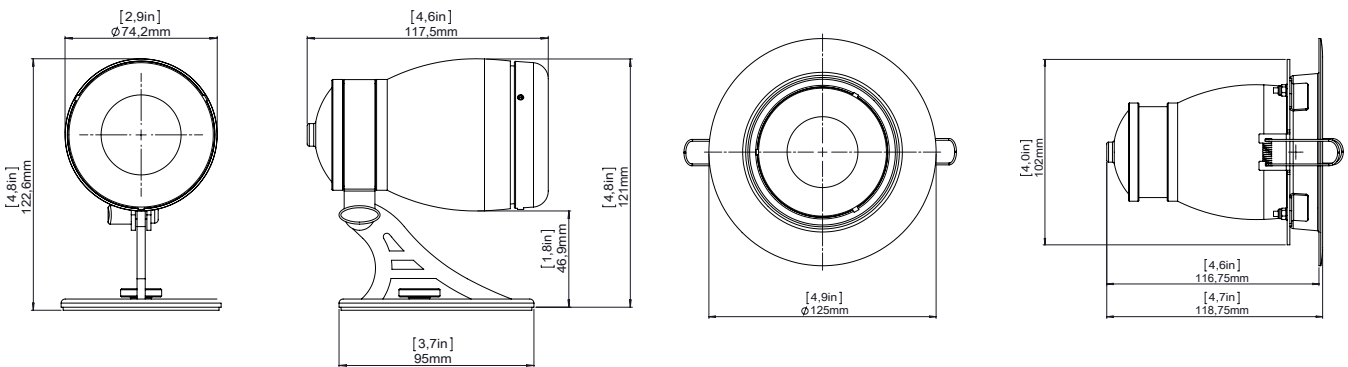
	ACOUSTICS
Power handling	18 W ^(AES)
Frequency range	150 Hz – 18 kHz (-10dB) ⁽¹⁾
Impedance	KT2, KT2H: 8 Ω / 32 Ω (selectable) KT2-HV, KT2C-HV: High Impedance for 70V amp
Maximum SPL	101 dB (cont.) – 107 dB (peak) ⁽²⁾
	COVERAGE
Horizontal	90°
Vertical	90°
	CROSSOVER
Type	External Crossover required
Frequency	150 Hz, 24 dB/oct suggested minimum

	TRANSDUCERS	
Full range	2" Neodymium magnet woofer with 2 x 0.8" voice coils	
	POWER AUDIO INPUT	
Connector	4-pin Phoenix	
	RECOMMENDED AMPLIFIERS	
Type	KA24, KA84	
	CERTIFICATION	
IP	54	
	PHYSICAL	
	KT2	KT2C
Dimensions	74 mm x 123 mm x 118 mm (2.9" x 4.8" x 4.6")	125 mm x 125 mm x 119 mm (4.9" x 4.9" x 4.7")
Weight	0.56 kg (1.23 lbs)	0.67 kg (1.48 lbs)

Notes for data

1. With dedicated preset;
2. Measured with musical signal

New materials and design are introduced into existing products without previous notice. Present systems may differ in some respects from those presented in this datasheet.



ARCHITECT SPECIFICATIONS

The miniature passive speaker shall be one of the most compact in the market with a remarkable power, compared with the size. It shall consist of one 2" long-excursion full range cone driver with a neodymium magnet assembly mounted in a sturdy turned aluminum base which shall be all weather resistant and durable and suitable for both outdoor and indoor applications. The speaker shall allow settings of two different impedance values, for a higher or lower impedance use (8Ω / 32Ω if possible). The loudspeaker shall only be operated by a compatible amplifier with dedicated presets loaded onboard.

The structure of the speaker shall feature a dedicated fixing bracket or threaded anchor points to be installed on a wall or under a ceiling. The speaker shall be able to be integrated with other units of the same model and, when required, with a suitable subwoofer to extend its frequency range for more demanding applications. The connector shall be recessed and fitted with a 4-pin Phoenix sockets. The loudspeaker shall have a nominal horizontal dispersion angle of 90° and a vertical one of 90° in order to avoid unpleasant acoustic reflections from both the ceiling and the floor. The power handling capacity shall be 18 W ^{AES}.

The frequency response (+/- 10dB) measured on axis shall be 150 Hz to 18 kHz with a maximum sound pressure of 107 dB. The speaker shall be as invisible as possible and shall be easily integrated in any kind of environments and surfaces. The dimensions (WxHxD) shall not exceed 125 x 125 x 119 mm (4.9" x 4.9" x 4.7") and shall weigh no more than 0.6 kg (1.3 lbs). The loudspeaker shall be the KT2 or KT2C by K-array surl.

DESIGNED AS PASSIVE SPEAKERS, THE NEW TORNADOS CAN BE EASILY CONVERTED INTO SELF-POWERED DEVICES BY INSERTING THE KA1-T2H 12V/24V AMPLIFIER MODULE.



	AUDIO INPUT		DC POWER
Connectors	Phoenix connector	Nominal voltage	12/24 Vdc
Wiring	IN - (-) IN + (+) GRD (Ground)	Operating range	10 - 26 Vdc
	POWER INPUT	I. Nom.	0.4 A / 24 Vdc
Connectors	Phoenix connector	CONSUMPTION	
Wiring	VCC (+) GND (common)	Efficiency	83%
	AMPLIFIER	Nominal power	10 W
Type	1 Module Class D Electronically Processed	PHYSICAL	
Nominal Power Output	32 W @ 8 Ω 1% THD + NOISE ⁽¹⁾	Dimensions	35 mm x 40 mm x 14 mm (1,37" x 1,57" x 0,55")
Protections	Dynamic limiter, over current, over temperature, short circuit power supply polarity inversion	Weight	40 g (0.08 lb)
Frequency response	20Hz - 20kHz (+/- 3 dB) for 1W @ 8 Ω		
THD+N 1kHz,1 W	0,100%		

Notes for data

1. EIAJ Test Standard, 1 kHz, 1%THD

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