



Product description

The Tannoy AMS 6ICT is a wide bandwidth, high power-handling and high sensitivity surface mount loudspeaker designed with an aesthetic that is perfect for the architectural considerations of building design, the elegantly styled moulded enclosures blend beautifully into any décor with custom colour being available on special order. Additionally the new AMS models have undergone the most punishing environmental testing of any product in Tannoy's history – achieving an IP65 rating, which is among the highest in the industry for outdoor use.

Incorporating a newly refined version of Tannoy's proprietary ICT™ point-source driver, the AMS 6ICT has been re-engineered for optimum compatibility with Lab.gruppen commercial amplifiers while also delivering consistent broadband directivity, precise articulation for voice and music, and exceptional long-term reliability.

The point source configuration of the Tannoy ICT driver's mid-bass and tweeter sections ensures a wide and controlled dispersion for optimum coverage, avoiding the significant energy losses in the vertical plane at the crossover frequency that are inherent in typical two-way designs. The ICT (Inductive Coupling Technology) drive unit also addresses two common component failures in background music systems: the tweeter and the crossover. Use of wireless electromagnetic coupling to drive the tweeter means that no crossover is required, making the ICT drive unit exceptionally reliable and ideal for applications where constant heavy usage is the norm. The mineral-loaded polypropylene cone material and nitrile rubber surround further enhance durability and long-term reliability.

The AMS range utilises a 16 ohm driver, making it ideal for use in high performance low-impedance systems (with optimized performance when used in conjunction with Lab.gruppen LUCIA amplifiers). Alternatively, for constant voltage systems, Tannoy have specified as standard, high quality low-insertion loss 60 W transformers featuring switching for taps at 60 W, 30 W and 15 W, with an additional 7.5 W tap for traditional systems.

Features

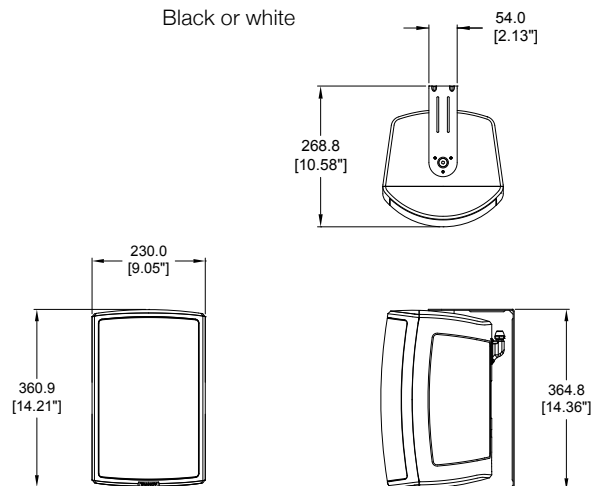
- 90 degree controlled conical dispersion for optimum coverage and forward gain
- Weather resistant rated IP65 to EN60529 (IEC529)
- High power handling and extended bandwidth
- Phase coherent design for superior vocal articulation and music reproduction
- No crossover required, ensuring better phase, impedance and sensitivity response and increased durability
- 16-ohm drivers optimized for use with Lab.gruppen LUCIA amplifiers
- Yoke bracket included; optional any-angle accessory bracket available
- Thickened 4 mm high temperature molded cabinets
- Custom color options

Applications

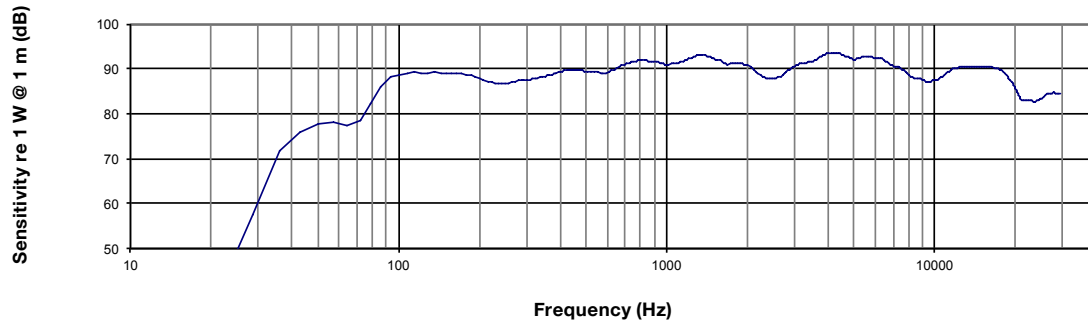
- Multi-zone foreground music and paging
- Boardrooms, offices and courtrooms
- Business music systems
- Airports, convention centres and hotels
- Auxiliary systems in houses of worship
- Lounges and bars
- Cruise ships

Physical data

Dimensions (H x W x D):	364.8 x 230.0 x 268.8 mm, (14.36 x 9.05 x 10.58")
Net Weight:	5.14 kg (11.33 lbs)
Enclosure:	ABS
Finish:	Black or white

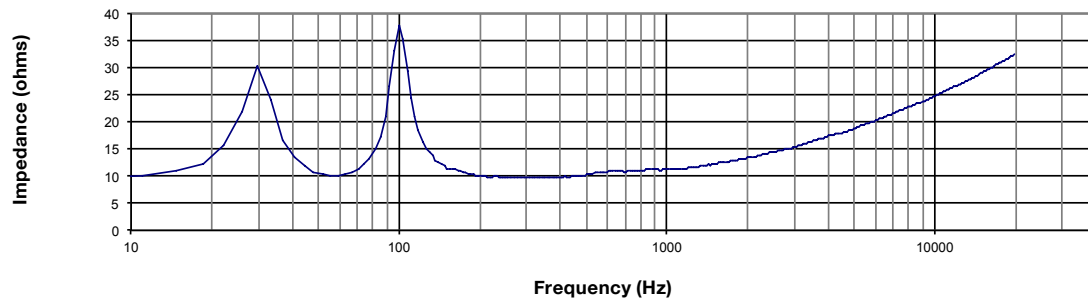


1 m on-axis Frequency Response



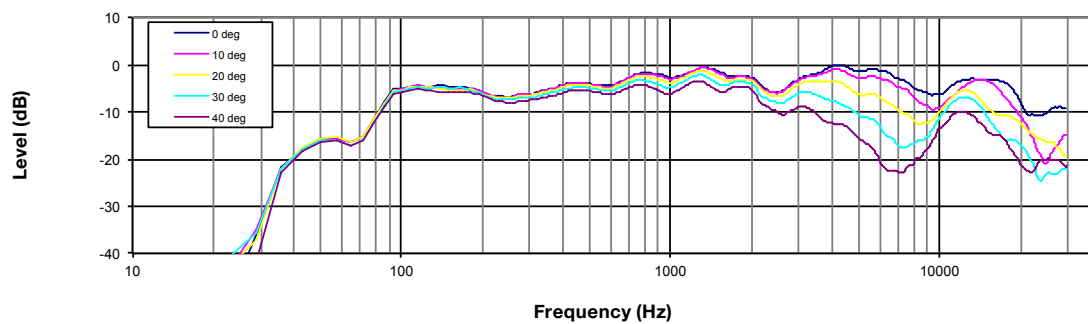
Anechoic Frequency Response

Impedance vs frequency



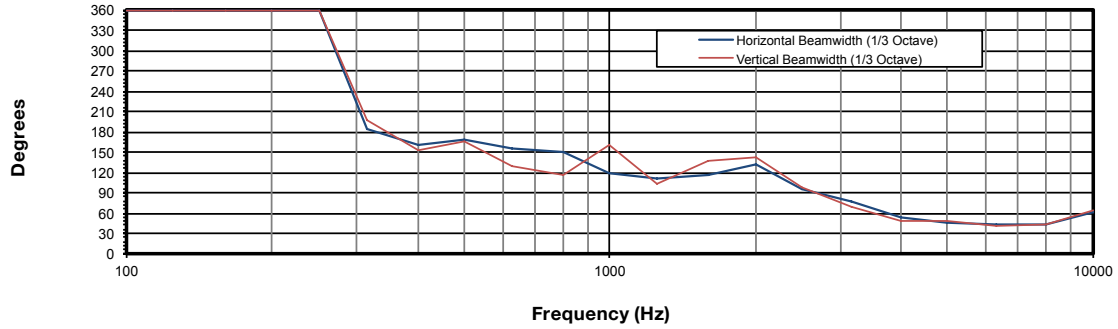
Impedance

Off-axis Frequency Response



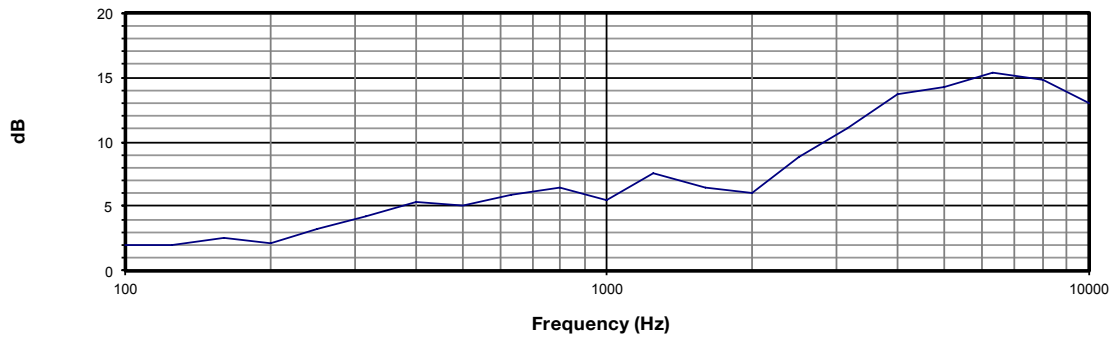
Off Axis Response

Beamwidth vs Frequency



Beamwidth

Directivity Index (DI)

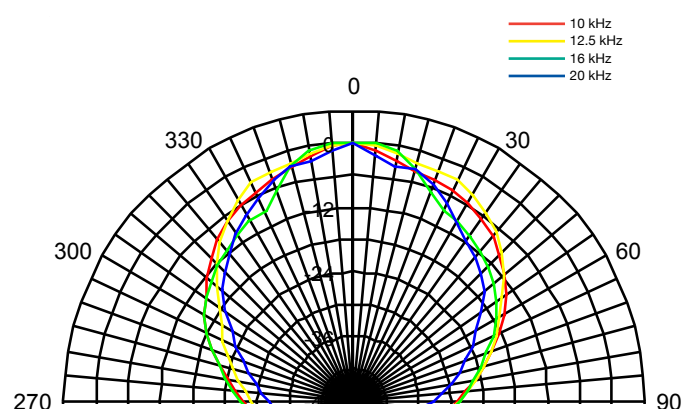
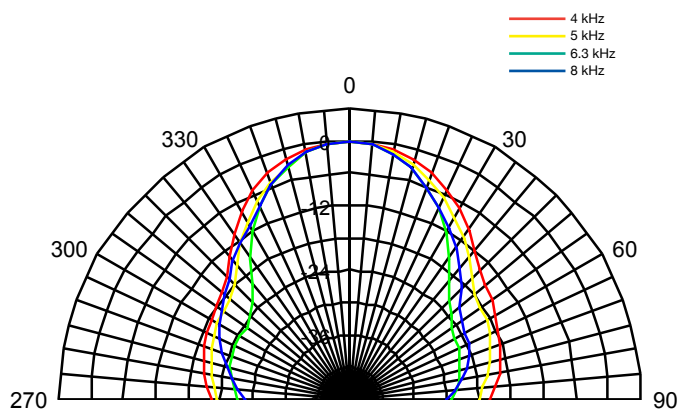
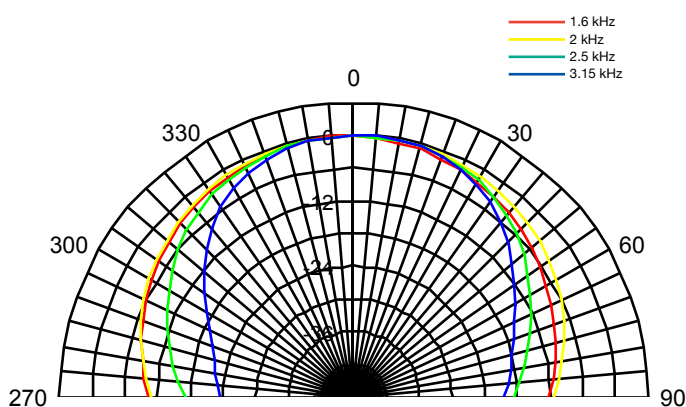
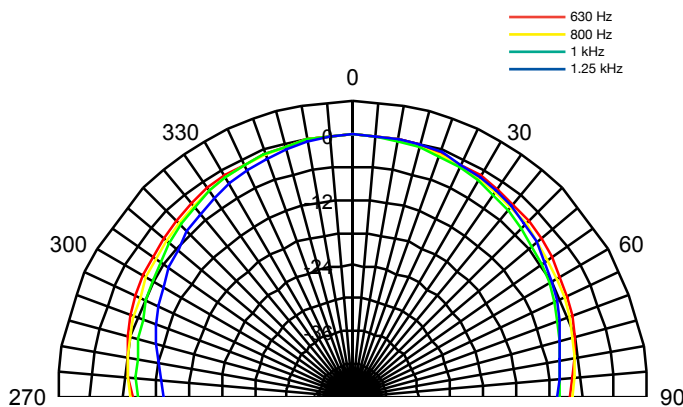
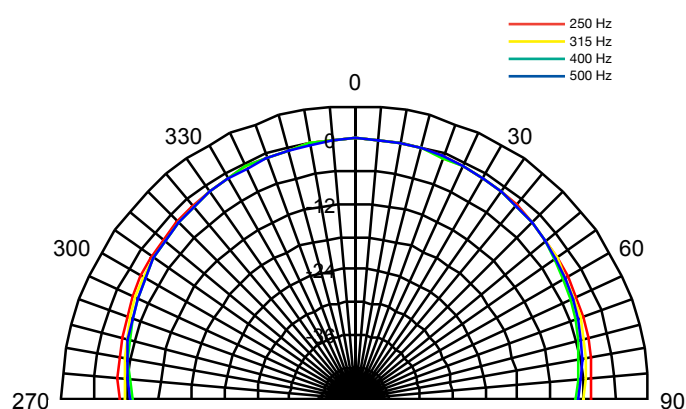
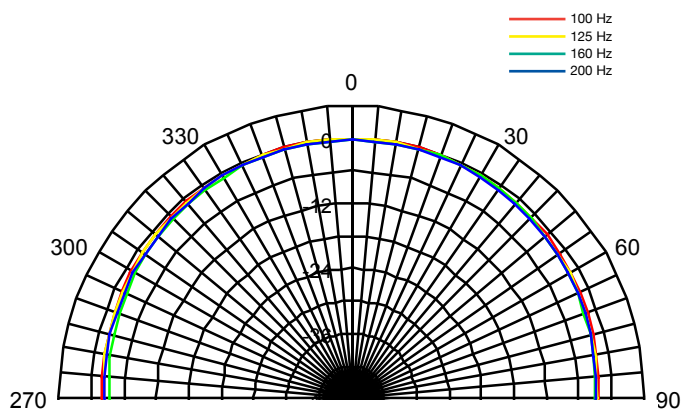


Directivity Index

Technical Data Sheet

Polar plots (1/3 octave)

AMS 6ICT



Technical Data Sheet

Specifications

AMS 6ICT

Performance

System	AMS 6ICT
Frequency response (-3 dB) ⁽¹⁾	75 Hz - 22 kHz
Frequency range (-10 dB) ⁽¹⁾	55 Hz - 30 kHz
System sensitivity (1 W @ 1m) ⁽²⁾	90 dB (1 W = 4 V for 16 ohms)
Nominal Coverage Angle	90 degrees conical
Power Handling ⁽³⁾	
Average	60 W
Programme	120 W
Peak	240 W
Recommended Amplifier Power	120 W @ 16 ohms
Nominal Impedance (Lo, Z)	16 ohms
Rated maximum SPL	
Average	108 dB
Peak	114 dB
Transformer Taps (via front rotary switch)	
70 V	60 W / 30 W / 15 W / 7.5 W / OFF & Low impedance operation
100 V	60 W / 30 W / 15 W / OFF & Low impedance operation

Transducers

Low Frequency	1 x 165 mm (6.50") treated multi fibre paper pulp cone
High Frequency	ICT

Physical

Enclosure	ABS
Grille	Steel, plated and painted
Connectors	Removable locking connector with screw terminals
Transformer setting	Rotary switch
Dimensions (H x W x D)	364.8 x 230.0 x 268.8 mm (14.36 x 9.05 x 10.58")
Net Weight (ea)	5.14 kg (11.33 lbs)
Shipped weight	5.82 kg (12.83 lbs)
Included Accessories	Yoke bracket
Packed Quantity	2

Ordering Information

Part Number	Colour
8001 7980	Black
8001 7981	White



Notes:

1. Average over stated bandwidth. Measured in an IEC baffle in an Anechoic Chamber
2. Unweighted pink noise input, measured at 1 metre on axis
3. Long term power handling capacity as defined in EIA - 426B test

A full range of measurements, performance data, CLF and Ease™ Data for AMS 6ICT can be downloaded from www.tannoypro.com.

Tannoy operates a policy of continuous research and development. The introduction of new materials or manufacturing methods will always equal or exceed the publishing specifications, which Tannoy reserves the right to alter without prior notice. Please verify the latest specifications when dealing with critical applications.

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Technical Data Sheet

Notes

AMS 61CT

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