MARTIN AUDIO
LONDON

ICT 300

FEATURES

Twin Driver ICT Technology

High SPL Capability

Compact Lightweight Enclosure

Rugged Plywood Construction

with Steel Protective Grille

Wide Dispersion

APPLICATIONS

Live Sound Amplification

High Performance Vocal System

Music Playback

AV Presentations

Theatre Installations

The Martin Audio ICT 300 is a compact full-range loudspeaker designed for professional applications where both compact size and high output are required. The ICT 300 is capable of producing SPL's normally associated with larger enclosures and its high efficiency and superior dynamic performance ensures smooth natural reproduction. The ICT 300 has been engineered to combine high level reproduction with a wide bandwidth, accuracy and maximum intelligibility.

To achieve extended bandwidth and high output capability from an enclosure only 35 litres in volume the ICT 300 features twin 10" drivers horizontally aligned in a unique two-way configuration utilising patented Pro ICT (Inductively Coupled Transducer) technology.

The revolutionary ICT principle uses the magnetic field generated by the low frequency drivers voice coil to inductively drive an aluminium high frequency diaphragm located at the centre of the unit and horn loaded by a phase plug and waveguide.

Because the HF diaphragm is energised by induction, it has no voice coil. This means that the most common form of failure in music systems - tweeter voice coil burnout - has been eliminated. In addition, although the ICT unit is a true two-way device, there is no separate electrical crossover network, since the crossover function is inherent in the ICT principle.

The M1 is an advanced Martin system controller designed to control both full-range and bi-amped ICT 300 systems. For applications where ultra-low frequency enhancement is required a sub-bass system can be used in conjunction with the ICT 300 and M1 system controller. In the full-range mode the M1 system controller performs equalisation functions and in bi-amped mode it provides additional dedicated electronic mono sub crossover outputs for two-way active system configuration. In the bi-amp mode additional flexibility is achieved by allowing the ICT 300 system to be run either full-range or as a mid-high cabinet.

ARCHITECTURAL AND ENGINEERING SPECIFICATIONS

The loudspeaker system shall be of the two-way type consisting of two ten inch horizontally mounted loudspeakers, both of which shall be a Pro ICT device with a concentric high frequency diaphragm loaded by a phase plug and wave guide. The transducers shall be mounted in a reflex loaded enclosure with integral pole mount socket and threaded inserts for wall and ceiling mounting.

Performance of the loudspeaker system combined with the system controller shall meet or exceed the following criteria:

Frequency response measured at one metre on axis shall be 55Hz - 18kHz +/- 3dB
The power handling shall be 300W AES, 1200W peak
Sensitivity measured in half space conditions at 1 metre with 1 Watt input shall be 96dB
Maximum SPL measured at 1 metre on axis shall be 119dB continuous, 125dB peak
High frequency dispersion at the -6dB points shall be 100 degs horizontal x 40 degs vertical
Dimensions (W) 565mm x (H) 325mm x (D) 325mm
The weight shall be 15kg

ICT 300 SPECIFICATIONS

TYPE	Twin-driver ICT
BANDWIDTH	55Hz-18kHz (with equaliser)
DRIVERS	2 x 10" (250mm) full-range ICT drivers
RATED POWER	300W AES, 1200W peak
RECOMMENDED AMPLIFIER	400-550W into 4 Ohms
SENSITIVITY (1)	96dB 1 Watt/1metre
MAXIMUM SPL (2)	119dB continuous, 125dB peak
IMPEDANCE	8 Ohms nominal
DISPERSION (-6dB POINTS)	100 deg Horizontal x 40 deg Vertical

ENCLOSURE	Multi-laminate birch ply
FINISH	Textured paint
PROTECTIVE GRILLE	Perforated steel with 48% free air flow
CONNECTORS	2 x Neutrik NL4
FITTINGS	8 x M8 inserts 1 x pole mount socket
DIMENSIONS	(W) 565mm x (H) 325mm x (D) 325mm (W) 22.25in x (H) 12.75in x (D) 12.75in
WEIGHT	15kg (35lbs)
SHIPPING DIMENSIONS	(W) 580mm x (D) 340mm x (H) 430mm (W) 22.8in x (D) 23.4in x (H) 16.9in
SHIPPING WEIGHT	16kg (35.2lbs)

M1 SPECIFICATIONS

GAIN	0dB @ 1kHz
HUM & NOISE	-90dBm 20Hz-20kHz
INPUTS	Left & Right, 2 x combined XLR/1/4" TRS jack, electronically balanced
OUTPUTS	Left, right and mono sub-bass, 3 x 1/4" jack, unbalanced
MAXIMUM INPUT	+20dBu
MAXIMUM OUTPUT	+20dBu

ELECTRONIC CROSSOVER FREQUENCY	120Hz
FRONT PANEL INDICATORS	Full-range, sub-bass LED's
REAR PANEL CONTROLS	Full-range/sub-bass switch
MAINS SUPPLY	100/110/220/240 V AC 50/60Hz
DIMENSIONS	(W) 483mm x (H) 317mm x (D) 102mm (W) 19.0ins x (H) 1.25ins x (D) 4.0 ins
WEIGHT	1.2kg (2.6lbs)

NOTES

1. Sensitivity measured in half-space conditions at 1 metre with 2.83V input, using band limited pink noise.
2. SPL measured at 1 metre using band limited pink noise.

Trade Descriptions Act: Due to Martin Audio's policy of continuing improvement, we reserve the right to alter these specifications without prior notice.
Martin Audio is committed to refining the state of the art sound reinforcement combining in-depth product and field applications research with advanced manufacturing techniques.
Every Martin product is built to the highest manufacturing standards and rigorously tested to ensure that it meets the performance criteria specified in the design.

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