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The Martin Experience

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Martin Audio – ICS300



This equipment conforms to the requirements of the EMC Directive 89/336/EEC, amended by 92/31/EEC and 93/68/EEC and the requirements of the Low Voltage Directive 73/23/EEC, amended by 93/68/EEC.

Standards Applied	EMC Emission	EN55103-1:1996
	Immunity	EN55103-2:1996
	Electrical Safety	EN60065:1993

1 INTRODUCTION

Thank you for purchasing a Martin Audio ICS300. It is a dedicated subwoofer designed for use with the ICT300 portable full-range system in situations where low frequency enhancement and increased system headroom are required.

When used with the ICT300, The ICS300 will extend the response of the system to below 40Hz and is capable of output levels normally associated with larger enclosures. It features twin high-efficiency 10" (250mm) bass drivers with 2.5" (65mm) voice coils loaded in a compact plywood enclosure.

As a dedicated sub-bass, it is intended to be used in conjunction with the M1 System Controller which provides 120Hz crossover and equalisation functions for the ICS300 and ICT300 combination. Please refer to the M1/ICT300 user guide for information on M1 connections.

2 UNPACKING

Each Martin Audio loudspeaker is built to the highest standard and thoroughly inspected before it leaves the factory. After unpacking the system, examine it carefully for any signs of transit damage and inform your dealer if any such damage is found. It is suggested that you retain the original packaging so that the system can be repacked at a future date if necessary.

Please note that Martin Audio and its distributors cannot accept any responsibility for damage to any returned product through the use of non-approved packaging.

3 AMPLIFICATION

The ICS300 is designed to be driven by a power amplifier with an output of 400-550W into 4 ohms.

Care should be taken to avoid amplifier clipping. It is important to understand that a low power amplifier driven into clipping is more likely to damage a loudspeaker than a higher power amplifier used within its ratings. This is because music signals have a high peak-to-average "crest" factor.

When an amplifier is severely overdriven, its output waveform is clipped (its peaks are squared off) – reducing the crest factor. In extreme cases, the waveform can approach that of a square wave. An amplifier is normally capable of producing far more power under these conditions than its undistorted rated power output.

The use of very high power amplifiers with outputs greater than those recommended is discouraged.

Care should be taken to avoid switch-on surges, which can result in momentary power peaks in excess of specified ratings. When powering up a sound system it is important to switch on the amplifiers after the mixer and control electronics have stabilised. When powering down the system, reverse the sequence and switch off the amplifiers first.

4 SAFETY FIRST

It is important that loudspeaker systems are used in a safe manner. Please take some time to review the following points concerning safe use of ICS300 Series loudspeakers.

Professional loudspeakers are capable of producing extremely high sound levels and should be used with care. Hearing loss is cumulative and can result from levels above 90dB if people are exposed for a long period. Never stand close to loudspeakers driven at high level.

5 CONNECTIONS

The ICS300 is provided with a Neutrik Speakon NL4 connector wired as follows:

<u>NL4</u>	<u>ICS300</u>
-1	Input -
+1	Input +
-2	N/C
+2	N/C

6 CABLE LENGTHS

When connecting loudspeaker systems to an amplifier, it is recommended that the return resistance of the cable used is less than one tenth of the nominal impedance of the system or systems in parallel. The table below gives an indication of the maximum permissible cable runs for various conductor cross-sectional areas.

<u>Conductor CSA</u>	<u>Maximum Cable Run</u>		
	4 ohms	8 ohms	16 ohms
1.0mm ²	11m	22m	44m
1.5mm ²	17m	34m	68m
2.0mm ²	22m	44m	88m
2.5mm ²	29m	58m	116m
4.0mm ²	44m	88m	176m
6.0mm ²	66m	132m	264m

7 WARRANTY

Martin Audio ICS300 is warranted against manufacturing defects in materials or craftsmanship over a period of 5 years from the date of original purchase. During the warranty period Martin Audio will, at its discretion, either repair or replace products which prove to be defective provided that the product is returned in its original packaging, shipping prepaid, to an authorised Martin Audio service agent or distributor.

Martin Audio Ltd. cannot be held responsible for defects caused by unauthorised modifications, improper use, negligence, exposure to inclement weather conditions, act of God or accident, or any use of this product that is not in accordance with the instructions provided by Martin Audio.

Martin Audio is not liable for consequential damages.

This warranty is exclusive and no other warranty is expressed or implied. This warranty does not affect your statutory rights.

8 TECHNICAL SPECIFICATIONS

ICS300

TYPE	Compact sub-bass system
FREQUENCY RESPONSE	40Hz-180Hz \pm 3dB
LOW FREQUENCY LIMIT	-10dB @ 34Hz
DRIVERS	2 x 10" (250mm) extended throw drivers
with 2.5" (63mm) voice coils	
RATED POWER	400W AES, 1600W peak
SENSITIVITY	100dB 1 Watt/1 metre
MAXIMUM SPL	125dB continuous, 131dB peak
IMPEDANCE	4 ohms
ENCLOSURE	130 litres (4.6 cu foot)
FINISH	Textured black paint
CONNECTOR	1 x NL4
DIMENSIONS	(W) 560mm x (H) 640mm x (D) 440mm (W) 22ins x (H) 25ins x (D) 17.3ins
WEIGHT	29kg (64lbs)
SHIPPING DIMENSIONS	(W) 680mm x (H) 720mm x (D) 580mm (W) 26.8ins x (H) 28.3ins x (D) 22.8ins
SHIPPING WEIGHT	35kg (77.2lbs)

Due to our policy of continuous improvement all specifications are subject to change without notice.

ICS300



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The Martin Experience

Century Point, Halifax Road, Cressex Business Park, High Wycombe, Buckinghamshire HP12 3SL, England.

Telephone: +44 (0)1494 535312 Facsimile: +44 (0)1494 438669

Web: www.martin-audio.com E-mail: info@martin-audio.com

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ICS300

User's Guide



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