

0359-CPR-00442

Intertek

Product(s): **CM Range of In-Ceiling Loudspeakers**
(refer to attached appendix for details and conditions)

Produced by or for: **SoundTube Entertainment Inc.**
6430 North Business Park Loop Road, Park City, Utah 84098, USA

Produced in the manufacturing plant(s): **Innovative Audio International Co., Ltd (INNOVCN.01)**
5th Road, 4th District, Lilin Town, Huizhou City, Guangdong, 516035, China

Intended use: Fire Safety

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s):

EN54-24:2008

Fire detection and fire alarm systems. Components of Voice Alarm Systems - Loudspeakers

Under system 1 are applied and that the product(s) fulfils all the prescribed requirements set out above.

This certificate was first issued on **19th February 2015** and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body. A review of the product(s) and compliant standard(s) will be carried out after 5 years to ensure continued compliance.

Notified Body
0359

Intertek Testing & Certification Limited
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Gordon Ash
Certification Manager

Gordon

Date 19/02/2015
Issue 1

Re-Issue 19/02/2020

www.intertek.com

Registered No 3272281 Academy Place, 1-9 Brook Street, Brentwood, Essex,
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Certificate of Constancy of Performance

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Appendix to Certificate of Constancy of Performance 0359-CPR-00442

The details and conditions of use for the CM Range of In-Ceiling Loudspeakers, placed on the market by:

SoundTube Entertainment Inc.

6430 North Business Park Loop Road, Park City, Utah 84098, USA

To be used in accordance with the supplier's installation instructions and in conjunction with the following bases, ancillaries, sounder tones and sensitivity settings (*where applicable*):

Products compliant with EN54-24:2008

Variant	Manufacturing Location	Description
CM42-EZs-II-BK*	INNOVCN.01	20 W, 4" Coaxial, In-Ceiling, Shallow Loudspeaker - Black
CM42-EZs-II-WH*	INNOVCN.01	20 W, 4" Coaxial, In-Ceiling, Shallow Loudspeaker - White
CM62-EZs-II-BK**	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling, Shallow Loudspeaker - Black
CM62-EZs-II-WH**	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling, Shallow Loudspeaker - White
CM62-EZ-II-BK***	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling Loudspeaker - Black
CM62-EZ-II-WH***	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling Loudspeaker - White
CM62-BGM-BK****	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling, Background Music Loudspeaker - Black
CM62-BGM-WH****	INNOVCN.01	32 W, 6.5" Coaxial, In-Ceiling, Background Music Loudspeaker - White

* Requires an equaliser setting of -4 dB at 200 Hz.

** Requires an equaliser setting of -6 dB at 200 Hz and +3 dB at 4800 Hz.

*** Requires an equaliser setting of -6 dB at 200 Hz and +2 dB at 4800 Hz.

**** Requires an equaliser setting of -3 dB at 125 Hz and -3 dB at 175 Hz.

Conditions of use:

Suitable for indoor (Type A) applications

Approved settings:

The following line voltage and power tap settings have been approved:-

	CM42-EZs-II-BK, CM42-EZs-II-WH	CM62-EZs-II-BK, CM62-EZs-II-WH, CM62-EZ-II-BK, CM62-EZ-II-WH, CM62-BGM-BK and CM62-BGM-WH
Line Voltage	Power Tap	Power Tap
25 V	2.5 W, 1.3 W, 0.7 W, 0.4 W, 0.2 W	4 W, 2 W, 1 W, 0.5 W, 0.3 W
70.7 V	20 W, 10 W, 5 W, 2.5 W, 1.3 W	32 W, 16 W, 8 W, 4 W, 2 W
100 V	20 W, 10 W, 5 W, 2.5 W	32 W, 16 W, 8 W, 4 W

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Issue 1

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Certificate of Constancy of Performance

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The Intertek logo is a blue rounded rectangle with the word "Intertek" in white, bold, sans-serif font.

Appendix to Certificate of Constancy of Performance 0359-CPR-00442 (continued)

General Notes:

1. Evaluated under Intertek project number 101069542.
2. The 16 Ω setting of the tap selector switch is not included in the scope of this approval.
3. No CE or other type approval is made or inferred outside of the attestation of conformity and the product performance as stipulated on this certificate.

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Appendix to Certificate of Constancy of Performance 0359-CPR-00442 (continued)

Table of performance for EN54-24:2008 Harmonised technical specification			
Essential characteristics	Performance	Clauses	Notes
Performance under fire condition.	Pass	4.2, 5.2, 5.3, 5.4, 5.5	a
Operational reliability	Pass	4.3, 4.4, 4.5, 5.6, 5.18	b
Durability of operational reliability: temperature resistance	Pass	5.7, 5.8, 5.9	b, c
Durability of operational reliability: humidity resistance	Pass	5.10, 5.11, 5.12	b, c
Durability of operational reliability: corrosion resistance	Pass	5.13	
Durability of operational reliability: impact and vibration resistance	Pass	5.14, 5.15, 5.16, 5.17	
Notes:			
a. The products covered by this standard are assumed to enter the alarm condition, in an event of fire, before the fire becomes so large as to affect their functioning. There is therefore no requirement to function when exposed to direct attack from fire.			
b. For Clauses 5.7, 5.9, 5.10 and 5.18, Type A conditioning was applied.			
c. Clauses 5.8 and 5.12 are not applicable to Type A loudspeakers.			