Test Report issued under the responsibility of:

EN 60529 Degrees of protection provided by enclosure (IP54)	
Report Reference No. ..... :	ELE-25-0414-00-00
Date of issue ..... :	06/11/2025
Total number of pages ..... :	17 + Attachments
Applicant's name ..... :	Guangzhou DSPPA Audio Co. ,L t d .
Address ..... :	Add.: No.1 Xiahe Rd, Jianggao Town, Baiyun District, Guangzhou, China Post Code: 510450
Test item description ..... :	Surface Mount Fireproof Ceiling Speaker
Trademark ..... :	DSPPA
Manufacturer ..... :	DSPPA Audio Co. ,L t d .
Model/Type reference ..... :	**DSP207EN**
Ratings ..... :	See below
Standard ..... :	EN 60529:1991-10 + corr:1993-05 + A1:2000-02 + A2:2013 Used in conjunction with EN 54-24 §5.18
Test procedure ..... :	/
Non-standard test method ..... :	/
Test Report Form No. ..... :	F-TL-ELE-10-37 en Rev. 0.2
Test Report Form Originator ..... :	MTIC Intercert S.r.l.
Master TRF ..... :	Dated 2025-06-27

General disclaimer:

The test results presented in this report relate only to the object tested, as received..

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Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
Test Laboratory ..... :	MTIC Intercert S.r.l.	
Testing location/address ..... :	Via Moscova 11 – 20017 Rho (MI) - ITALY	
Tested by (name, signature) ..... :	Barcella Andrea	Andrea Barcella
Approved by (name, signature) ..... :	Giudici Andrea	Andrea Giudici

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Release Control Record		
Test report Number	**Reason of change**	**Date of Issue**
ELE-25-0414-00-00	Original release	06/11/2025
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This document is valid in last revision that deletes and replaces the previous one.

Summary of testing

Tests performed (name of test and test clause): **Testing location:**

All clauses. MTIC Intercert S.r.l.

Note: Via Moscova 11 – 20017 Rho (MI) - ITALY

Summary of compliance with National Differences (List of countries addressed):

None

☒ The product fulfils the requirements of EN 60529:1991-10 + corr:1993-05 + A1:2000-02 + A2:2013 Used in conjunction with EN 54-24 §5.18.

Other Test Laboratory's Attachments:

Attachment #L1: None

List of Attachments:

Attachment #1: Manual DSP207EN Indoor EN54 Wallmount Speaker

Factory(ies) identification

Name and address of factory(ies)...:	Guangzhou DSPPA Audio Co. ,Ltd . Add.: No.1 Xiahe Rd, Jianggao Town, Baiyun District, Guangzhou, China Post Code: 510450

General product information:

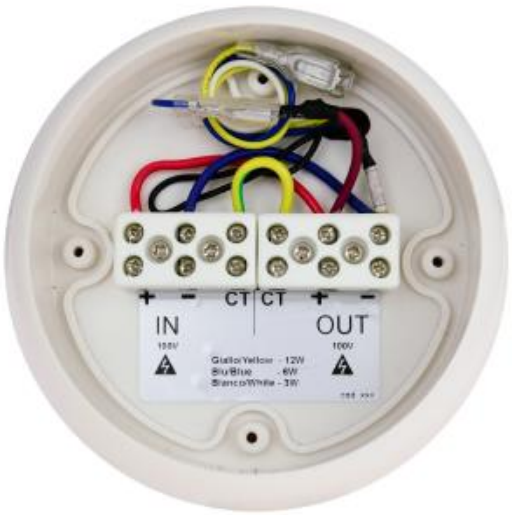
On wall or shelf projector 100V speaker, 12W – 6W – 3W, power taps, EN54-24:2008 standard certified.

Plastic body made in ABS V0 type, Protection grid in aluminium. Suitable for indoor installation, IP rate protection: IP54.

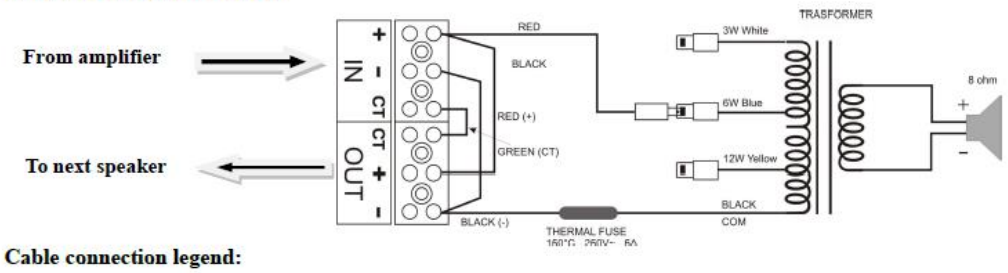
Wide band bi-cone 5" speaker, audio transformer for connection to 100V or 70V lines, thermal fuse for protection of the speaker line in case of overheating, dual IN-OUT ceramic connector.

Including aluminium fixing bracket, waterproof cover and IN-OUT cable glands for easy daisy-chain speakers' connection.

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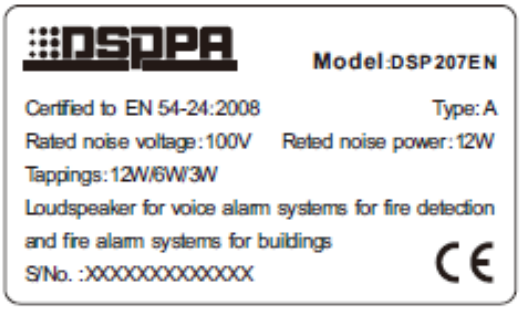
CONNECTION DIAGRAM:



Cable connection legend:

\+ = 100V
\- = 0V, COM

Copy of marking plate



Note: *The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective test laboratories that own these marks.*

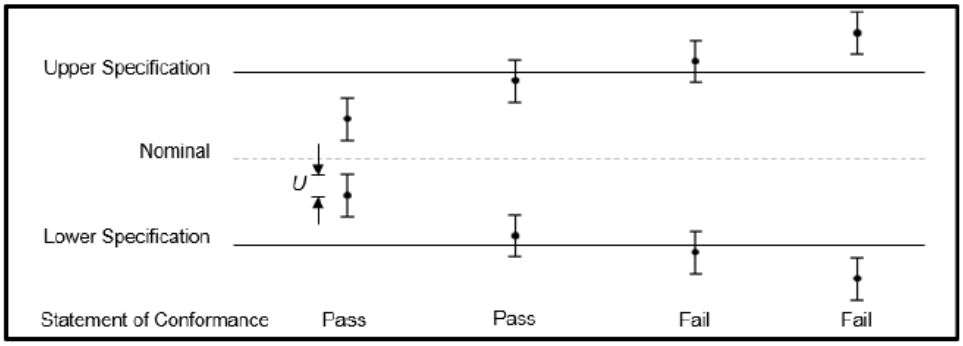
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GENERAL INFORMATION	
Test item particulars:	
Classification of installation and use……..:	Components of voice alarm systems: loudspeaker
Supply connection……..:	Terminals by screw
Testing:	
Date of receipt of test item(s)……..:	2025-06-23
Dates tests performed……..:	From 2025-11-05 to 2025-11-06
Sampling:	
Sampling performed by……..:	Manufacturer
Possible test case verdicts:	
- test case does not apply to the test object …….:	Not Applicable (**N/A**)
- test object does meet the requirement……:	Pass (**P**)
- test object was not evaluated for the requirement..:	Not Evaluated (**N/E**)
- test object does not meet the requirement…….:	Fail (**F**)

Decision Rule:

The laboratory defines that the following decision rule of acceptability of the result is: "**Binary decision (with safety band w=0)**" (ref. document ILAC-G8:09/2019).



U = 95% expanded measurement uncertainty

Where:

- Pass: the measured value is below the acceptability limit. Acceptability limit (AL) = Specification limit (TL)
- Fail: the measured value is above the acceptability limit. Acceptability limit (AL) = Specification limit (TL)

Assuming the following definitions

- Guard band (w): Interval between specification limit and acceptability limit, where the bandwidth is defined as w=|TL-AL|
- Specification Limit (TL): Specified upper or lower limit of permitted measured values defined by standards
- Acceptability Limit (AL): Specified upper or lower limit of permitted measured values defined by the Laboratory.

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As stated in ILAC-G8-09:2019, for the simple binary method (w=0), the associated specific risk is quantified as follows:

- In < 50% PFA (Probability of False Positive) for cases where the measurement is below the limits of acceptability but considering the uncertainty U may exceed these limits.

In <50% PFR (Probability of False Negative) for cases where the measurement is above the limits of acceptability but considering the uncertainty U could be within those limits.

Standard cover by ISO/IEC 17025 scope:

☒ EN 60529
☒ EN 54-24 §5.18

General remarks:

"(See Attachment #)" refers to additional information appended to the report.
"(See Appended table)" refers to a table appended to the report.
The tests results presented in this report relate only to the object tested.
This report shall not be reproduced except in full without the written approval of the Testing Laboratory.
List of test equipment must be kept on file and available for review.
Additional test data and/or information provided in the attachments to this report.
Throughout this report a ☐ comma / ☒ point is used as the decimal separator.
When differences exist, they shall be identified in the General product information section.

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EN 60529			
Clause	Requirement – Test	Result – Remark	Verdict
11.	**General requirements for tests**		**P**
11.1	Ambient Temperature Ta (15-35°C)	16 °C	P
	Ambient Relative humidity Ur (25-75%rH)	58 %	P
	Ambient Air pressure P (860-1060mbar)	977 mbar	P
11.2	Tests sample		–
	Samples in a clean and new condition, with all parts in place and mounted in the manner stated by the manufacturer.	☒ YES .... ☐ NO	P
	No of samples tested..... :	1	P
	Conditions of mounting..... :		P
	Pre-conditioning..... :	☐ YES .... ☒ NO	N/A
	Appliance energised..... :	☒ YES POWERED, USING A SIMULATED PROGRAM SIGNAL AT HALF THE NOMINAL NOISE VOLTAGE (EN 54-24 §5.18) ☐ NO	P
12	**Test for protection agaist access hazardous parts (first characteristic numeral)**		**P**
12.2	Test conditions		–
	Type of probes..... :	Rigid steel wire	P
	diameter of probes mm ..... :	☐ 50 mm $^{+0,05/0}$ (IP1) ☐ Jointed test finger (IP2) ☐ 2.5 mm $^{+0,05/0}$ (IP3)[1] ☒ 1.0 mm $^{+0,05/0}$ (IP4,5,6)	P
	test force ..... :	☐ 50 N ± 10% (IP1) ☐ 10 N ± 10% (IP2) ☐ 3 N ± 10% (IP3) ☒ 1 N ± 10% (IP4,5,6)	P
	Complete equipment ..... :	YES ☒ No ☐	P

[1] Supplementary letter C

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EN 60529			
Clause	Requirement – Test	Result – Remark	Verdict
	Parts in motion ..... :	No	N/A
12.3	Adequate clearance kept between access probe and hazardous parts	Probe does not enter	P
12.3.1	For low voltage equipment (≤1000Vac and 1500Vdc):		–
	• Test probe shall not touch hazardous live parts	100V audio signal input line	P
	• Adequate clearance kept	Probe does not enter	P
	If present, voltage produced internally higher than rated voltage considered		N/A
12.3.2	For high voltage equipment (>1000Vac and 1500Vdc):		–
	• Dielectric tests when the access probe is placed in the most unfavourable position(s), or		N/A
	• Adequate clearance kept		N/A
	Enclosure with sections at different voltage levels: all section inspected		N/A
12.3.3	Equipment with hazardous mechanical parts:		–
	• Test probe shall not touch hazardous mechanical parts		N/A
13	**Tests for protection agains solid foreign objects (first characteristic numeral)**		**P**
13.2, 13.3	Test conditions for first characteristic numerals 1, 2, 3, 4		N/A
	The object probe is pushed against any openings of the enclosure with the force specified in Tab. VII.	**IP5X**	N/A
	The protection is satisfactory if the full diameter of the probe does not pass through any opening.		N/A
13.4	**Dust test for first characteristic numerals 5 and 6**		P
	Type of talcum powder (dust)..... :	Dimension 20-40 μm 90%	P
	Category of enclosure ..... :	☒ 1 (with depression) ☐ 2 (without depression)	P
	Complete equipment ..... :	YES☒ No ☐	P
	No of samples tested..... :	1	P
	Positioning ..... :		P
	Pre-conditioning..... :		P
	Energised..... :		N/A
	Parts in motion..... :		N/A
	For category 1 enclosure:		P
	Depression ..... :	20 mbar	P

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EN 60529			
Clause	Requirement – Test	Result – Remark	Verdict
	Suction connection ..... :	Cable gland	P
	• Volume of the sample enclosure (l)..... :	2l	P
	• Extraction rate (max. value 60 Vol. /h) ..... :	40 Vol/h	P
	• Real extraction rate between 40 and 60 Vol./h :	40Vol/h	P
	• Extraction rate < 40 Vol. /h test continued until 80 Vol. have been drawn through or 8 h has elapsed ..... :	Test duration: 2 h at 40 Vol./h	P
	For category 2 enclosure:		–
	Depression vacuum pump not used		N/A
13.5	Special conditions for first characteristic numeral 5		N/A
13.5.1	Enclosure deemed category 1 unless the relevant product standard for the equipment specifies that the enclosure is category 2		N/A
13.5.2	Acceptance conditions: The protection is satisfactory if, on inspection, talcum powder has not accumulated in a quantity or location such that, as with any other kind of dust, it could interfere with the correct operation of the equipment or impair safety.		N/A
	Except for specuial cases to be clearly specified in the relevant product standard, no dust shall deposit where it could lead to tracking along the creepage distances.		N/A
13.6	Special conditions for first characteristic numeral 6		–
13.6.1	The enclosure shall be deemed category 1, whether reductions in pressure below the atmospheric pressure are present or not.		N/A
13.6.2	The protection is satisfactory if no deposit of dust is observable inside the enclosure at the end of the test.		N/A
14	**Protection against water (second characteristic numeral)**		**P**
14.2	Test condition		P
	Ambient temperature ..... :	16°C	P
	Water temperature..... :	T=Ta +/- 10 °C	P
14.2.1	Test for second characteristic numeral 1 with the drip box		N/A
	The test is made with a device which produces a uniform flow of water drops over the whole area of the enclosure.		N/A

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EN 60529			
Clause	Requirement – Test	Result – Remark	Verdict
	The turntable on which the enclosure is placed has a rotation speed of 1 r/min and the eccentricity (distance between turntable axis and specimen axis) is approximately 100 mm.		N/A
	The enclosure under test is placed in its normal operating position under the drip box, the base of which is larger than that of the enclosure. Except for enclosures designed for wall or ceiling mounting, the support for the enclosure under test should be smaller than the base of the enclosure.		N/A
	An enclosure normally fixed to a wall or ceiling is fixed in its normal position of use to a wooden board having dimensions which are equal to those of that surface of the enclosure which is in contact with the wall or ceiling when the enclosure is mounted as in normal use.		N/A
	The duration of test is 10 min.		N/A
14.2.2	Test for second characteristic numeral 2 with the drip box		N/A
	The dripping device is the same as specified in 14.2.1 adjusted to provide the water flow rate specified in Tab. VIII.		N/A
	The table on which the enclosure is placed does not turn as in the case of the test for the second characteristic numeral 1.		N/A
	The enclosure is tested for 2,5 min in each of four fixed positions of tilt. These positions are 15° on either side of the vertical in two mutually perpendicular planes (see Fig. 3b)).		N/A
	The total duration of the test is 10 min.		N/A
14.2.3	Test for second characteristic numeral 3 with oscillating tube or spray nozzle		N/A
	The test is made using one of the two test devices described in Fig. 4 and in Fig. 5 in accordance with the relevant product standard.	☐ Fig. 4 ☐ Fig. 5	N/A
	Fig. 4: Tube oscillation……:	120°	N/A
	Fig. 4: Time for one complete oscillation……..:	4 s	N/A
	Fig. 4: Test duration……..:	5 min	N/A
	Fig. 5: Counterbalanced shield removed	Moving shied 30°	N/A
	Fig. 5: Water pressure……..:	50 – 150 kPa	N/A

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EN 60529			
Clause	Requirement – Test	Result – Remark	Verdict
	Fig. 5: Test duration……..:	1 min/m^2 5 min minimum	N/A
	Fig. 5: Counterbalanced shield used		N/A
14.2.4	**Test for second characteristic numeral 4 with oscillating tube or spray nozzle**	**IPX4**	**P**
	The test is made using one of the two test devices described in Fig. 4 and in Fig. 5 in accordance with the relevant product standard.	☐ Fig. 4 ☒ Fig. 5	**P**
	Fig. 4: Tube oscillation……:	360°	N/A
	Fig. 4: Time for one complete oscillation……..:	12 s	N/A
	Fig. 4: Test duration……..:	10 min	N/A
	Fig. 5: Water pressure……..:	50 – 150 kPa	**P**
	Fig. 5: Test duration……..:	1 min/m^2 5 min minimum	**P**
14.2.5	Second characteristic numeral 5		N/A
	Position ..... :	Inclined of 15° as specified in installation manual	N/A
	Water litres for minute ..... :	12.5	N/A
	Pressure jet-proof ..... :	—	N/A
	Nozzle distance ..... :	2.5 m	N/A
	Test duration..... :	Min. 3 minutes	N/A
	Hose nozzle Ø ..... :	6.3 mm	N/A
14.2.6	Test for second characteristic numeral 6 with the 12,5 mm nozzle		N/A
	Position ..... :		N/A
	Water litres for minute ..... :	100	N/A
	Pressure jet-proof ..... :	—	N/A
	Nozzle distance ..... :	2.5 m	N/A
	Test duration..... :	Min. 3 minutes	N/A
	Hose nozzle Ø ..... :	12.5 mm	N/A

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14.3	Acceptance conditions		P
	If water has entered, it shall not: - be sufficient to interfere with the correct operation of the equipment or impair safety - deposit on insulation parts where it could lead to tracking along the creepage distances - reach live parts or windings not designed to operate when wet - accumulated near the cable end or enter the cable in any	☒ No infiltration of water ☐ infiltration of water	P
	For enclosure with drain-holes: water drained away without doing any harm to the equipment		N/A
	For enclosure without drain-holes: if water can accumulate, the relevant product standard shall specify the acceptance conditions.	No water accumulate	N/A

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Photographic documentation





Figure 1: EUT

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Figure 2: IP5X EUT in the Dust Chamber



Figure 3: IP5X Internal view (Cone)

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Figure 4: IP5X Internal view (line trasformer)



Figure 5: IP5X Internal view (wirings-block)

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Figure 6: IPX4 (pneumatic cone)

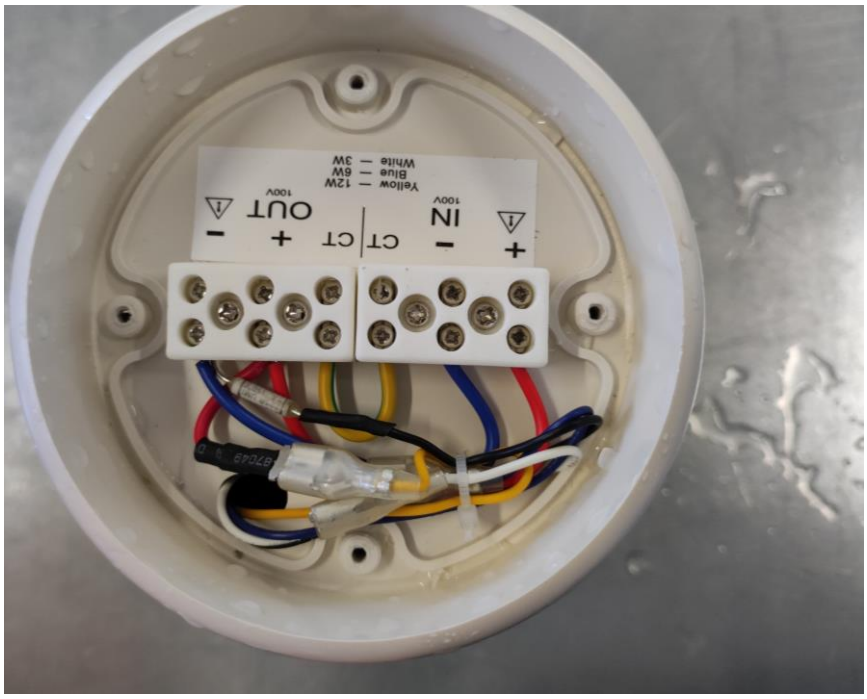


Figure 7: IPX4 Internal view (wirings-block)

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Figure 8: IPX4 Internal view (line trasformer)

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--- END OF TEST REPORT ---

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