

## TEST REPORT

REPORT NO.:CTNT2502080080101



Product Name: Laser Remote Detector

Model No. : JJY150

Applicant: Snail Technology Co.,LTD

Test Procedure: Entrustment Test

Shenzhen Zhongwei Testing Technology Co., Ltd.



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**TEST REPORT****EN IEC 62368-1****Audio/video, information and communication technology equipment****Part 1: Safety requirements**

Report Number.....: CTNT2502080080101

Date of issue.....: Mar.03, 2025

Name of Testing Laboratory  
preparing the Report .....

Shenzhen Zhongwei Testing Technology Co., Ltd.  
Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang  
Street, Longgang District, Shenzhen, Guangdong, China  
Tel: 0755-28680489  
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Applicant's name .....: Snail Technology Co.,LTD

Address.....: 2-6, No. 39 Life Second Road, Wanli Street, Dalian Economic  
and Technological Development Zone, Dalian City, Liaoning  
Province

Manufacturer's name .....: Snail Technology Co.,LTD

Address.....: 2-6, No. 39 Life Second Road, Wanli Street, Dalian Economic  
and Technological Development Zone, Dalian City, Liaoning  
Province**Test specification:**

Standard.....: EN IEC 62368-1: 2020

Test procedure .....: Entrustment Test

Non-standard test method .....: N/A

TRF template used.....: IECEE OD-2020-F1:2021, Ed.1.4

Test Report Form No. ....: IEC62368\_1E

Test Report Form(s) Originator ....: UL(US)

Master TRF.....: Dated 2022-04-14

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<b>Test item description</b> .....	Laser Remote Detector		
<b>Trade Mark(s)</b> .....	N/A		
<b>Model/Type reference</b> .....	JJY150, YTJY150, XG-JJY, SNCJ, SNCQ		
<b>Ratings</b> .....	The equipment is powered by batteries: Charging input: 5V $\Rightarrow$ 2.1A; Battery parameters: 8.4V $\Rightarrow$ 10000mAh		
<b>Test item particulars:</b>			
<b>Product group</b> .....	<input checked="" type="checkbox"/> end product <input type="checkbox"/> built-in component		
<b>Classification of use by</b> .....	<input checked="" type="checkbox"/> Ordinary person <input checked="" type="checkbox"/> Children likely present <input checked="" type="checkbox"/> Instructed person <input checked="" type="checkbox"/> Skilled person		
<b>Supply connection</b> .....	<input type="checkbox"/> AC mains <input type="checkbox"/> DC mains <input checked="" type="checkbox"/> not mains connected: <input checked="" type="checkbox"/> ES1 <input type="checkbox"/> ES2 <input type="checkbox"/> ES3		
<b>Supply tolerance</b> .....	<input type="checkbox"/> +10%/-10% <input type="checkbox"/> +20%/-15% <input type="checkbox"/> +    %/ -    % <input checked="" type="checkbox"/> None		
<b>Supply connection – type</b> .....	<input type="checkbox"/> pluggable equipment type A - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> direct plug-in <input type="checkbox"/> pluggable equipment type B - <input type="checkbox"/> non-detachable supply cord <input type="checkbox"/> appliance coupler <input type="checkbox"/> permanent connection <input type="checkbox"/> mating connector <input checked="" type="checkbox"/> other: powered by batteries <input type="checkbox"/> A;		
<b>Considered current rating of protective device</b> .....	Location: <input type="checkbox"/> building <input type="checkbox"/> equipment <input checked="" type="checkbox"/> N/A		
<b>Equipment mobility</b> .....	<input checked="" type="checkbox"/> movable <input checked="" type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> direct plug-in <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> wall/ceiling-mounted <input type="checkbox"/> SRME/rack-mounted <input type="checkbox"/> other:		
<b>Overvoltage category (OVC)</b> .....	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input type="checkbox"/> other: Not directly connected to the mains		
<b>Class of equipment</b> .....	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified <input type="checkbox"/>		
<b>Special installation location</b> .....	<input checked="" type="checkbox"/> N/A <input type="checkbox"/> restricted access area <input type="checkbox"/> outdoor location <input type="checkbox"/>		
<b>Pollution degree (PD)</b> .....	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3		
<b>Manufacturer's specified T<sub>ma</sub></b> .....	50 °C <input type="checkbox"/> Outdoor: minimum    °C		
<b>IP protection class</b> .....	<input type="checkbox"/> IPX0 <input checked="" type="checkbox"/> IP66 <input checked="" type="checkbox"/> N/A		
<b>Power systems</b> .....	<input type="checkbox"/> TN <input type="checkbox"/> TT <input type="checkbox"/> IT -    V <sub>L-L</sub> <input checked="" type="checkbox"/> not AC mains		
<b>Altitude during operation (m)</b> .....	<input checked="" type="checkbox"/> 2000 m or less <input type="checkbox"/> m		

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Altitude of test laboratory (m) .....: ☒ 2000 m or less ☐ m  
Mass of equipment (kg) .....: 0.35kg

**Test item particulars:**

Classification of installation and use .....: hand-held equipment  
Supply Connection .....: DC power supply  
Protection against electric shock .....: Class III equipment  
Mass(kg) .....: 0.35Kg

**Possible test case verdicts:**

- test case does not apply to the test object .....: N/A  
- test object does meet the requirement .....: P (Pass)  
- test object does not meet the requirement .....: F (Fail)

Testing .....:  
Date of receipt of test item .....: Feb.08, 2025  
Date (s) of performance of tests .....: Feb.20-Feb.26, 2025

**General remarks:**

"(See Enclosure #)" refers to additional information appended to the report.  
"(See appended table)" refers to a table appended to the report.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

**Other important notes:**

1. If you have any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receipt of the report.
2. Entrusting test only responsible for the incoming samples, and the test results are used by the entrusting party to understand the quality of the samples.
3. This test report is invalid without the "test stamp".
4. This report may not be reproduced in part without permission to avoid ambiguous interpretation.
5. Test items with "\*" are unauthorized items.
6. The remaining samples under test must be collected within three months of receipt of the inspection report. If the samples are not collected within the time limit, the laboratory will handle them by selves.

Company name: Shenzhen Zhongwei Testing Technology Co., Ltd.  
Address: Room 1A106, 1/F., No.109, Lijia Road, Henggang, Henggang Street, Longgang District, Shenzhen, Guangdong, China  
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**Copy of marking plate:**

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

**General product information:**

- This equipment is a Laser Remote Detector and belongs to Class III equipment.
- The under test model JJY150 and the series models YTJY150, XG-JJY, SNCJ, SNCQ are identical except model name and appearance decoration. The differences do not affect product safety and performance.
- All tests are carried out on JJY150.
- The equipment is designed for use in environments with temperatures ranging from -20°C to 50°C.
- JJY50 laser methane detector belongs to laser products, and the testing laser belongs to Class 1.
- JJY50 laser methane detector belongs to laser products, indicate that the laser belongs to Class 3R.

**Summary of testing:**

Determination of the result includes consideration of measurement uncertainty from the test equipment and methods.

According to the test of EN IEC 62368-1:2020

This product is complied with the applicable requirements of standards.

**Testing procedure and testing location**

Laboratory name..... : Shenzhen Zhongwei Testing Technology Co., Ltd.

Testing location/address: : Room 106, 1/F, No. 109, Lijia Road, Henggang Community, Henggang Street, Longgang District, Shenzhen, Guangdong, China

Testing procedure : TL ☒ RMT ☐ SMT ☐ WMT ☐ TMP ☐

Tested By : George Tian  
(Test Engineer)

Reviewed By : Jackie Chen  
(Supervisor)

Approved By : Flight Lee  
(Chief Engineer)



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