

## TEST REPORT

REPORT NO.: CTNT2412160100201



Product Name: LaserTonor Pi1

Model No.: 2024-10A

Applicant: Shenzhen Xiyu Aurora Technology Co., Ltd

Test Procedure: Entrustment Test

Shenzhen Zhongwei Testing Technology Co., Ltd.



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**TEST REPORT****UL 62368-1****Audio/video, information and communication technology equipment****Part 1: Safety requirements****Report Number**..... : CTNT2412160100201**Date of issue** ..... : Mar.27, 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  
E-mail: admin@ctnt-cert.com  
Web: www.ctnt-cert.com

**Applicant's name** ..... : Shenzhen Xiyou Aurora Technology Co., Ltd  
**Address**..... : 407, No.15, Shenfeng Road, Liuyue North Community,  
Henggang Street, Longgang District, Shenzhen

**Manufacturer's name** ..... : Shenzhen Xiyou Aurora Technology Co., Ltd  
**Address**..... : 407, No.15, Shenfeng Road, Liuyue North Community,  
Henggang Street, Longgang District, Shenzhen

**Test specification:****Standard** ..... : UL 62368-1: 2019 Edition 3**Test procedure** ..... : Entrustment Test**Non-standard test method** ..... : N/A**TRF template used**..... : IECEE OD-2020-F1:2023, Ed.1.6**Test Report Form No.**..... : IEC62368\_1F**Test Report Form(s) Originator**.... : UL Solutions (US)**Master TRF** ..... : Dated 2023-08-18**Copyright © 2020 IEC System of Conformity Assessment Schemes for Electrotechnical Equipment and Components (IECEE System). All rights reserved.**

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
**Remark:**

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<b>Test item description .....</b>	LaserTonor Pi1		
<b>Trade Mark(s) .....</b>	LaserTonor		
<b>Model/Type reference.....</b>	2024-10A		
<b>Ratings.....</b>	Powered by an external power adapter: Adapter input: 100-240V~ 50/60Hz 1.2A(Max) Output: 12V  5A 60W		
<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 likely present	<input type="checkbox"/> Children	
	<input checked="" type="checkbox"/> Instructed person		
	<input checked="" type="checkbox"/> Skilled person		
<b>Supply connection .....</b>	<input type="checkbox"/> AC mains	<input checked="" type="checkbox"/> DC mains	
	<input 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 adapter		
<b>Considered current rating of protective device .....</b>	<input type="checkbox"/> A;		
	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 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		
<b>Special installation location .....</b>	<input checked="" type="checkbox"/> N/A	<input type="checkbox"/> restricted access area	
	<input type="checkbox"/> outdoor location		
<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>	55 °C	<input type="checkbox"/> Outdoor: minimum	°C
<b>IP protection class .....</b>	<input checked="" type="checkbox"/> IPX0	<input type="checkbox"/> IP__	<input 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		

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Altitude during operation (m) .....: ☒ 2000 m or less ☐ m  
Altitude of test laboratory (m) .....: ☒ 2000 m or less ☐ m  
Mass of equipment (kg) .....: 4.42kg

**Test item particulars:**

Classification of installation and use.....: Movable equipment

Supply Connection .....: DC power supply

Protection against electric shock.....: Class III equipment (The adapter and the Equipment Under Test are classified as Class II equipment overall.)

Mass(kg) .....: 4.42Kg

**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.....: Dec.16, 2024

Date (s) of performance of tests .....: Feb.07-Feb.19, 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

Tel: 086-755-28680489

Email: admin@cntnt-cert.com

Website: www.cntnt-cert.com

**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.

LaserTonor Pi1
Model: 2024-10A
Manufacturer: Shenzhen Xiyou Aurora Technology Co., Ltd
MADE IN CHINA

**General product information:**

- The equipment is a laser engraving machine.
- Class III equipment (The adapter and the Equipment Under Test are classified as Class II equipment overall.)
- The equipment is designed for use in environments with temperatures ranging from 0°C to 55°C
- Equipment specifications

Size	Engraver: 75.6mm*179.31mm*10.7mm electric Supporting Track: 150mm*225mm*215.5mm
Laser Source	450nm Diode Laser
Engraving Area	100x100mm, 100x2000mm (Using the Rotary Roller)

**Summary of testing:**

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

According to the test of UL 62368-1

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 (Test Engineer) : George Tian

Reviewed By (Supervisor) : Jackie Chen

Approved By (Chief Engineer) : Flight Lee

George Tian

Jackie Chen



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