Test Report Number: GZHH00242411

Applicant: GUANGDONG XIN YU TECHNOLOGY INDUSTRIAL CO.,LTD.
LAI MEI INDUSTRIAL ZONE,
CHENGHAI DISTRICT, SHAN TOU,
GUANGDONG, CHINA

Date: Jun 27, 2017

Attn: MS LIN

Sample Description:

Two (2) styles of submitted sample said to be :

No.	Item No.	Item Name	Scale	Frequency
1	3803	Honda NSX	1:18AA	2.4G
2	3809	Lamborghini Centenario	1:18	2.4G

Labelled Age Group : "Choking Hazard-Small Parts. Not For Children Under 3 Years"
Appropriate Age Grading for Testing : Over 3 years
Packaging Provided by Applicant : Yes
Country of Origin : China

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Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

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Conclusion:

The tested sample was tested and found to comply with EN 60825-1:1994 + A1:2002 + A2:2001 Class 1 LED Product.

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Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Hardlines

Ben N.L. Lin
General Manager

Intertek Testing Services Shenzhen Limited, Guangzhou Branch
深圳天祥质量技术服务有限公司广州分公司

E501, No.7-2, Caipin Road, Guangzhou Science City, GETDD Guangzhou.
广州经济技术开发区科学城彩频路 7 号之二 E501 (510663)

Tel +8620 8213 9688
Fax +8620 3205 3537
intertek.com.cn
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1 Safety of Laser Products

As per European Standard EN 60825-1:1994 + A1:2002 + A2:2001 on Safety of Laser Product Part 1: Equipment Classification, Requirements and User's Guide-Section Two: Manufacturing Requirements.

Classification of the laser product	
Laser and/or LED product class for which the equipment is assigned :	Class 1 LED product
Laser and/or LED product class of the equipment :	--
Laser and/or LED product class of the embedded laser/LED :	--
Test specification	
Test procedure :	Testing (Laser classification only)
Test case verdicts	
Test case does not apply to the test object ... :	N/A
Test item does meet the requirement :	Pass
General product information: For item3809: In normal operation，the vehicle is operated by 1 piece 3.2V Li-poly rechargeable battery, the transmitter is operated by 2 piece "AA" batteries. For item 3803: In normal operation，the vehicle is operated by 4 pieces "AA" batteries, the transmitter is operated by 2 piece "AA" batteries.	

Clause	Requirement – Test	Result – Remark	Verdict
4	**Engineering Specifications**		N/A
5	**Labelling**		N/A
6	**Other Informational Requirements**		N/A
7	**Additional Requirements for Specific Laser Products**		N/A
8	**Classification (Normal Condition)**		Pass
8.4	Classification rules		Pass
	Applicable condition/s	Condition 2	Pass
8.4e	Time base used	100s for Class 1 limits;	Pass

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Clause	Requirement – Test	Result – Remark	Verdict
	Calculations and limits: **1. Ø3mm diffuse red LED in the vehicle of No.3809:** Measured wavelength: 629.0 nm Measured thermal power: 20.60 μW AEL(1) for retinal thermal hazard: 523.32 μW **2. Ø3mm diffuse red LED in the transmitter of No.3809:** Measured wavelength: 633.0 nm Measured thermal power: 12.13 μW AEL(1) for retinal thermal hazard: 600.76 μW **3. Ø3mm diffuse red LED in the transmitter of No.3803:** Measured wavelength: 628.0 nm Measured thermal power: 10.45 μW AEL(1) for retinal thermal hazard: 574.98 μW		Pass
8.4f	Repetitively pulsed or modulated lasers	Continuous	N/A
	Calculations and limits		N/A
	AEL for continued operation used		N/A
	Total-on-time-pulse (TOTP) method used		N/A
9	**Measurements for Classification (Normal Condition)**		Pass
9.1	Tests		Pass
9.2	Measurement conditions		Pass
	Measured laser radiation	a,b,c,d,e,f,g	—
9.3	Measurement geometry		Pass
	a) aperture diameter (mm)	7mm	Pass
		Thermal hazard: 1.15.6mm for Ø3mm diffuse red LED in the vehicle of No.3809 2. 16.6mm for Ø3mm diffuse red LED in the transmitter of No.3809; 3. 16.3mm for Ø3mm diffuse red LED in the transmitter of No.3803.	Pass
	c) angle of acceptance γ		Pass

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Clause	Requirement – Test	Result – Remark	Verdict
	i) photochemical limits	11mrad (at t = 100s)	N/A
	ii) all other limits	100mrad	Pass

8	**Classification (Fault Condition)**		Pass
8.4	Classification rules		Pass
	Applicable condition/s	Condition 2	Pass
8.4e	Time base used	100s for Class 1 limits;	Pass
	Calculations and limits: **1. Ø3mm diffuse red LED in the vehicle of No.3809:** Measured wavelength: 629.0 nm Measured thermal power: 25.39 μW AEL(1) for retinal thermal hazard: 523.32 μW **2. Ø3mm diffuse red LED in the transmitter of No.3809:** Measured wavelength: 633.0 nm Measured thermal power: 16.40 μW AEL(1) for retinal thermal hazard: 600.76 μW **3. Ø3mm diffuse red LED in the transmitter of No.3803:** Measured wavelength: 628.0 nm Measured thermal power: 13.78 μW AEL(1) for retinal thermal hazard: 574.98 μW		Pass
8.4f	Repetitively pulsed or modulated lasers	Continuous	N/A
	Calculations and limits		N/A
	AEL for continued operation used		N/A
	Total-on-time-pulse (TOTP) method used		N/A
9	**Measurements For Classification (Fault Condition)**		Pass
9.1	Tests		Pass
9.2	Measurement conditions		Pass
	Measured laser radiation	a,b,c,d,e,f,g	—
9.3	Measurement geometry		Pass
	a) aperture diameter (mm)	7mm	Pass

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Clause	Requirement – Test	Result – Remark	Verdict
	b) measurement distance (mm)	**Thermal hazard:** 1.15.6mm for Ø3mm diffuse red LED in the vehicle of No.3809 2. 16.6mm for Ø3mm diffuse red LED in the transmitter of No.3809; 3. 16.3mm for Ø3mm diffuse red LED in the transmitter of No.3803.	Pass
	c) angle of acceptance γ		Pass
	i) photochemical limits	11mrad (at t = 100s)	N/A
	ii) all other limits	100mrad	Pass

Date sample received: Jun 08, 2017
Testing period: Jun 08, 2017 to Jun 24, 2017

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End of report

Intertek Testing Services Shenzhen Limited, Guangzhou Branch
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