

Test Report

Number: SZHH01328378S1

Applicant: MAY CHEONG TOY PRODUCTS FTY., LTD
UNIT 901-2, 9/F., EAST OCEAN CENTRE,
98 GRANVILLE ROAD, TSIMSHATSUI EAST,
KOWLOON, HONG KONG

Date: Dec 20, 2019

Attn: Icy Huang

*This is to supersede Report No.
SZHH01328378 dated Jan 29,
2019*

Sample Description:

Three (3) sets of submitted sample said to be :

Item Name : **R/C Rock Crawler Pro Series 4WS**
Item No. : **81334(18777/18892)**
client 's reference Item Name : XS Runner ;22" Ferrari 488 GTB ; 1:6 R/C Ford Raptor ;
1:6 R/C Off-Road Rock Fighter ; 1:24 RC Premium assorted.
client 's reference Item No. : 81335/81336/81337; 81153(15903) ;82133(14167) /
82134/82135/82136/82137/82138 ; 81601 ; 81324(15932) ;
#82330/82331/82332/82333/82334/82335/82336/82337/82338/82339/82340/
82341/82342/82343/82344
Labelled Age Group : "8+"
Applicant Specified Age : Over 8 years
Grading for Testing :
Packaging Provided by Applicant : Yes
Country of Origin : China

Tests conducted:

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

Conclusion:

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

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager



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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:	
In normal operation, the vehicle is operated by 1 piece "6.4V(500mAh) Li-ion rechargeable battery pack", the transmitter is operated by 2 pieces "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: Measured wavelength: 664.5 nm Measured thermal power: 80.63 µW AEL (1) for retinal thermal hazard: 2.17 mW 2. Ø3mm diffuse red LED in the transmitter: Measured wavelength: 664.5 nm Measured thermal power: 63.57 µW AEL (1) for retinal thermal hazard: 2.12 mW		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
	b) measurement distance (mm)	Thermal hazard: 1. 30.2mm for Ø3mm diffuse red LED in the vehicle; 2. 29.8mm for Ø3mm diffuse red LED in the transmitter.	Pass
	c) angle of acceptance γ		Pass
	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



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Clause	Requirement – Test	Result – Remark	Verdict
	Calculations and limits: 1. Ø3mm diffuse red LED in the vehicle: Measured wavelength: 664.5 nm Measured thermal power: 103.57 µW AEL (1) for retinal thermal hazard: 2.17 mW 2. Ø3mm diffuse red LED in the transmitter: Measured wavelength: 664.5 nm Measured thermal power: 82.69 µW AEL (1) for retinal thermal hazard: 2.12 mW		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
	b) measurement distance (mm)	Thermal hazard: 1. 30.2mm for Ø3mm diffuse red LED in the vehicle; 2. 29.8mm for Ø3mm diffuse red LED in the transmitter.	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: Jan 21, 2019
 Testing period: Jan 21, 2019 to Jan 28, 2019



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End of report

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To: MAY CHEONG TOY PRODUCTS FTY., LTD

Attention: Icy Huang

Date: Dec 20, 2019

Re : Report Revision Notification

Intertek Testing Services Report Number SZHH01328378 Dated Jan 29, 2019

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services Report Number, SZHH01328378S1 Dated Dec 20, 2019

Details of report amendment :

1.Add client's reference information as per client's request.

Thank you for your attention.

Authorized by:
For Intertek Testing Services
Shenzhen Ltd.



Rachel L. Guo
General Manager

