



TEST REPORT

For RF Expose

Report No..... : CHTW25110008

Project No : SHT2509020804W

FCC ID : 2BSSQ-20166RX

Applicant's name : Dongguan Silverlit Toys Co., LTD

Address..... : No. 292, Huaide Village, Humen Town, Dongguan City, Guangdong Province,523926 China

Product Name..... : RC28 ZOOM,RC28T ZOOM

Trade Mark..... : -

Model No..... : 20166

Listed Model(s) : 20167

Standard : **FCC Part 2 (Section 2.1093)**

Date of receipt of test sample.....: 2025/10/17

Date of testing.....: 2025/10/17- 2025/10/31

Date of issue.....: 2025/11/6

Result.....: **Pass**



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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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Test Report Form No. : R0066

Test Report Form(s) Originator : Shenzhen Huatongwei International Inspection Co., Ltd.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test standards

The tests were performed according to following standards:

[FCC Part 2 \(Section 2.1093\)](#)- Radiofrequency radiation exposure evaluation: portable devices.
[KDB 447498 D04 Interim General RF Exposure Guidance v01](#)- RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
[FCC Part 1 \(Section 1.1307\)](#)- Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2025-11-06	Original

2. SUMMARY

2.1. Client Information

Applicant:	Dongguan Silverlit Toys Co., LTD
Address:	No. 292, Huaide Village, Humen Town, Dongguan City, Guangdong Province, 523926 China
Manufacturer:	Dongguan Silverlit Toys Co., LTD
Address:	No. 292, Huaide Village, Humen Town, Dongguan City, Guangdong Province, 523926 China
Factory:	Dongguan Silverlit Toys Co., LTD
Address:	No. 292, Huaide Village, Humen Town, Dongguan City, Guangdong Province, 523926 China

2.2. Product Description

Main unit information:			
Product Name:	RC28 ZOOM,RC28T ZOOM		
Trade Mark:	-		
Model No.:	20166		
Listed Model(s):	20167		
Model difference	Product Name	Model No	Plastic shell
	RC28 ZOOM	20166	
	RC28T ZOOM	20167	
Power supply:	DC 3.7V from Battery		
Hardware version:	V1.0		
Software version:	V1.0		
Accessory unit information:			
Battery information:	3.7V 150mAh 0.555Wh		

2.3. Radio Specification Description

Operation frequency:	2420-2465MHz
Channel number:	46
Channel separation:	1MHz
Modulation:	GFSK
Antenna type:	Monopole Antenna
Antenna gain:	0 dBi

2.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China
Contact information:	Tel: 400-963-0755 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn

3. RF EXPOSURE

LIMIT:

KDB 447498 D04 Interim General RF Exposure Guidance v01

Appendix B Exemptions for Single RF Sources

B.3 MPE-based Exemption and B.4 SAR-based Exemption:

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B.2})$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

TEST RESULT

☒ Passed ☐ Not Applicable

Radio Type	Frequency (MHz)	E(dBuV/m)	Maximum ERP/EIRP (dBm)	Maximum ERP/EIRP (mW)	Minimum Separation Distance(mm)	Pth* (mW)
2.4G	2420-2465	97.32	2.12	1.63	5	2.77

Note:

- 1) The maximum antenna gain is 0dBi
- 2) The exposure evaluation safety distance is 5mm.
- 3) $(\text{dBm}) = E(\text{dBuV/m}) + 20\log(d) - 104.77 = E(\text{dBuV/m}) - 95.2$

4. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Reference to the test report No. CHTW25110006

-----End of Report-----