



## SAR Evaluation Report

**Application No.:** SZEM2011011236CR  
**Applicant:** DSEA A/S  
**Address of Applicant:** Kongebakken 9 Smørum 2765 Denmark  
**Manufacturer:** DSEA A/S  
**Address of Manufacturer:** Kongebakken 9 Smørum 2765 Denmark  
**Factory:** Dongguan Huayun industry co., Ltd  
**Address of Factory:** No.55 Xiangrong Village Dalang Town, Dongguan 523795  
**Equipment Under Test (EUT):**  
**EUT Name:** VISION - RC 01 / VISION - RC 01T  
**Model No.:** SCBT24  
**Trade Mark:** EPOS  
**FCC ID:** R3USCBT24  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2020-08-14 (for original report SZEM200800745002)  
**Date of Test:** 2020-08-05 to 2020-09-07 (for original report SZEM200800745002)  
**Date of Issue:** 2020-09-07 (for original report SZEM200800745002)  
2020-11-11 (for new report SZEM201101123602)

<b>Test Result :</b>	<b>Pass*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu  
EMC Laboratory Manager



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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-11-11		Original

Authorized for issue by:				
				
		Harry Wu /Project Engineer		
				
		Eric Fu /Reviewer		



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## 4 General Information

### 4.1 General Description of EUT

Rated voltage:	DC 3.0V
Battery:	2 x 1.5V "AAA" Batteries
Bluetooth Version:	V4.2
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK
Number of Channels:	40
Channel Spacing:	2MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

#### Remark:

Original model No. in report SZEM200800745002: HELLORemote3

The model HELLORemote3 was only tested in report SZEM200800745002.

New model No. in report SZEM201101123602: SCBT24

This report was an additional report copied from the report SZEM200800745002, just changed the information of applicant, manufacturer, product name and model name, added the information of factory and trade mark. Since the electrical circuit design, layout, components used and internal wiring for the model in the report SZEM200800745002 was exactly the same as the model in this report, only different on model name and home button functionality. In the VISION RC 01 T instead of home button there is a specific button which launches Microsoft Teams application whereas in the VISION - RC 01 home button launches home screen.

Therefore original data were kept in this report SZEM201101123602.





## 4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China  
518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

## 4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

## 4.4 Deviation from Standards

None.

## 4.5 Abnormalities from Standard Conditions

None.

## 4.6 Other Information Requested by the Customer

None.



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## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

##### 4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  mm are determined by:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$  is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine SAR test exclusion

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 1.43 dBm on the highest channel 2.48 GHz (\*)  
1.43 dBm logarithmic terms convert to numeric result is nearly 1.39 mW

According to the formula. calculate the test exclusion thresholds:

$$\left[ \frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$$

$\sqrt{f(\text{GHz})}$

$$\text{General RF Exposure} = (1.39 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.48 \text{ GHz}} = 0.44 \quad (1)$$

SAR requirement:

$$S = 3.0 \quad (2)$$

$(1) < (2)$

So the SAR report is not required.

(\*) Max. power refer to Report No.:SZEM201101123602

- End of the Report -



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