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RF Exposure Evaluation Report

Application No.: KSCR2606001361AU
FCC ID: SY4-A02080
Applicant: Shanghai Huace Navigation Technology Ltd.
Address of Applicant: 577 Songying Road, Qingpu District, 201706 Shanghai, China
Manufacturer: Shanghai Huace Navigation Technology Ltd.
Address of Manufacturer: 577 Songying Road, Qingpu District, 201706 Shanghai, China
Factory: Shanghai Huace Navigation Technology Ltd.
Address of Factory: 577 Songying Road, Qingpu District, 201706 Shanghai, China
Equipment Under Test (EUT):
EUT Name: Vision-Fused Multi-Point Deformation Monitoring System
Model No.: Z8
Trade Mark: 
Standard(s) : FCC Rules 47 CFR §2.1091
KDB447498 D01 General RF Exposure Guidance v06
Date of Receipt: 2026-06-09
Date of Test: 2026-07-20 to 2026-10-12
Date of Issue: 2026-10-12

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Revision Record			
Version	Description	Date	Remark
00	Original	2026-10-12	/

Authorized for issue by:			
Prepared By		Maker Qi	
		Maker_Qi/Project Engineer	
Approved By		Terry Hou	
		Terry Hou /Reviewer	

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3 General Information

3.1 General Description of E.U.T.

Power supply:	AC/DC Adapter: Model: XLG-100-12-A Input: 100~240V~,50-60Hz,1.1A Output: 12V/8A 96W
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3.2 Technical Specifications

Operation Frequency Range:	17100MHz-17300MHz
Operating Frequency:	17200MHz
Number of Channels:	1
Modulation:	FMCW
Antenna type:	PCB Trace Antenna
Antenna Gain:	25.4dBi (Provided by the manufacturer)

3.3 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1.SGS is not responsible for wrong test results due to incorrect information (e.g. max. clock frequency, highest internal frequency, antenna gain, cable loss, etc) is provided by the applicant. (if applicable).

2.SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (if applicable).

3. Sample source: sent by customer.

3.4 Test Facility

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

• **A2LA (Certificate No. 2541.01)**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA).

• **FCC (Designation Number: CN1172)**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory.

• **ISED (CAB Identifier: CN0072)**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 2324E

• **VCCI (Member No:1938)**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4 Test Standards and Limits

4.1 FCC Radiofrequency radiation exposure limits:

According to §1.1310, the limit for general population/uncontrolled exposures

Frequency	Power density(mW/cm ²)	Averaging time(minutes)
300MHz~1.5GHz	f/1500	30
1.5GHz~100GHz	1.0	30

5 Measurement and Calculation

5.1 Maximum transmit power

The Max Power Data is based on the RF Test Report KSCR260600136101

Test Frequency(MHz)	E.I.R.P. Power (dBm)	E.I.R.P. Power (mW)
17100-17300	19.85	96.61

5.2 MPE Calculation

According to the formula $S=PG/4\pi R^2$, we can calculate S which is MPE.

Note:

- 1) P (mW)
- 2) G (Antenna gain in numeric)
- 3) R = distance to the center of radiation of antenna (in meter) = 20cm
- 4) MPE limit = 1mW/cm²

$$S = \frac{PG}{4R^2\pi} = \frac{96.61}{4 \times 400 \times 3.14} = 0.019 \text{ mW/cm}^2 < 1 \text{ mW/cm}^2$$

5.3 Conclusion

Based on the above, the device is excluded for SAR test.

--End of the Report--