

# TEST REPORT

## RF Exposure Evaluation

|                        |                                                                                                            |
|------------------------|------------------------------------------------------------------------------------------------------------|
| Report No.             | CISRR26012623802                                                                                           |
| Project No.            | CISR260126238                                                                                              |
| FCC ID                 | 2BF280-V1                                                                                                  |
| Applicant              | Shenzhen Renwei Digital Technology Co., Ltd                                                                |
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| Manufacturer           | Shenzhen Renwei Digital Technology Co., Ltd                                                                |
| Address                | 4 /F, Building 7, Guteng First Industrial Zone, Gushuyankang Road, Xixiang, Bao'an District, Shenzhen City |
| Product Name           | SMART OTOSCOPE                                                                                             |
| Trade mark             | -                                                                                                          |
| Model/Type reference   | V1                                                                                                         |
| Listed Model(s)        | -                                                                                                          |
| Standard               | 47 CFR Part 2.1093                                                                                         |
| Date of sample receipt | January 27, 2026                                                                                           |
| Test date              | January 27, 2026 to February 2, 2026                                                                       |
| Issue date             | February 3, 2026                                                                                           |
| Test result            | Complied                                                                                                   |

Lucas Huang

Reviewed by: Lucas Huang



Approved by: Hans Hu

*The test results relate only to the tested samples.*

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## 1. APPLICABLE STANDARD

[47 CFR Part2.1093](#): Radio frequency radiation exposure evaluation: portable devices

[ANSI C95.1–2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01](#) General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[47 CFR Part1.1307](#): Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

## 2. REPORT VERSION

| Version No. | Issue date       | Description |
|-------------|------------------|-------------|
| 00          | February 3, 2026 | Original    |
|             |                  |             |
|             |                  |             |

### 3. RADIO SPECIFICATION DESCRIPTION

| WIFI-2.4GHz Band |                                             |                                             |                                             |
|------------------|---------------------------------------------|---------------------------------------------|---------------------------------------------|
| Supported type:  | <input checked="" type="checkbox"/> 802.11b | <input checked="" type="checkbox"/> 802.11g | <input checked="" type="checkbox"/> 802.11n |
|                  | <input type="checkbox"/> 802.11ax           |                                             |                                             |

Note: Please refer to RF report for detailed technical specifications

### 4. SIMULTANEOUS TRANSMISSION ANALYSIS

The device use a single transmitter module and antenna for WIFI, cannot transmit simultaneously.

## 5. TEST RESULT

### 5.1. Standalone transmission

#### Limit:

KDB447498 D01 v06, Clause 4.3.1 a)

**For 100 MHz to 6 GHz and test separation distances  $\leq 50$  mm**, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0$  for 1-g SAR, and  $\leq 7.5$  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>31</sup> • The result is rounded to one decimal place for comparison
- The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

#### Result:

**Passed**

#### Test Data

| Radio type | Frequency (GHz) | Maximum EIRP <sup>#3</sup> (dBm) | Maximum tune-up <sup>#4</sup> EIRP (dBm) | Minimum distance (mm) | Evaluated value | Limit | Result |
|------------|-----------------|----------------------------------|------------------------------------------|-----------------------|-----------------|-------|--------|
| WIFI       | 2.462           | 8.22                             | 9                                        | 5.00                  | 2.4927          | 3.00  | PASS   |

#### Note

#1: This value comes from the RF test report.

#2: This value is declared by the applicant.

#3:  $EIRP = \text{Maximum output power} + \text{Antenna gain}$ .

#4: This value is declared by the applicant.

## 5.2. Simultaneous transmission

### Limit:

KDB447498 D01 v06, Clause 4.3.2, 47 CFR Part1.1307

In the case of xed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

Where

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the speci ed minimum distance including existing evaluated transmitters.

P<sub>j</sub> = the available maximum time-averaged power or the ERP, whichever is greater, for xed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

P<sub>th,i</sub> = the exemption threshold power (P ) according to paragraph (b)(3)(i)(B) of this section for xed, mobile, or portable RF source i.

ERP<sub>j</sub> = the ERP of fixed, mobile, or portable RF source j.

ERP<sub>th,j</sub> = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph (b)(3)(i)(C) of this section.

Evaluated<sub>k</sub> = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit<sub>k</sub> = either the general population/uncontrolled maximum permissible exposure (MPE) or speci c absorption rate (SAR) limit for each xed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.

### Result:

**Not Applicable**

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