# TEST REPORT

**Product Name : Wireless smart glasses**
**Model Number : HT-TW201**
**FCC ID : 2BBSSPAW-103**

| | | |
|---|---|---|
| Prepared for | : | Primo Tech Industrial Ltd. |
| Address | : | Room 907, Building B4, Zone 2, Shenzhen Bay Science and Technology Ecological Park, Gaoxin South Ring Road, South Science Park, Nanshan District, Shenzhen City, China |
| Prepared by | : | EMTEK (DONGGUAN) CO., LTD. |
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| | | |
|---|---|---|
| Report Number | : | EDG2306150074E00302R |
| Date(s) of Tests | : | June 15, 2023 to July 06, 2023 |
| Date of issue | : | July 06, 2023 |

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# 1. TEST RESULT CERTIFICATION

| | | |
|---|---|---|
| Applicant | : | Primo Tech Industrial Ltd. |
| Address | : | Room 907, Building B4, Zone 2, Shenzhen Bay Science and Technology Ecological Park, Gaoxin South Ring Road, South Science Park, Nanshan District, Shenzhen City, China |
| Manufacturer | : | Primo Tech Industrial Ltd. |
| Address | : | Room 907, Building B4, Zone 2, Shenzhen Bay Science and Technology Ecological Park, Gaoxin South Ring Road, South Science Park, Nanshan District, Shenzhen City, China |
| EUT | : | Wireless smart glasses |
| Model Name | : | HT-TW201 |
| Trademark | : | N/A |

Measurement Procedure Used:

| APPLICABLE STANDARDS | |
|---|---|
| **STANDARD** | **TEST RESULT** |
| § 15.247(i), § 2.1093 | **PASS** |

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : June 15, 2023 to July 06, 2023

Prepared by : Warren Deng /Editor

Reviewer : Tim Dong /Supervisor

Approve & Authorized Signer : Sam Lv /Manager

# Modified History

| Version | Report No. | Revision Date | Summary |
|---|---|---|---|
| | EDG2306150074E00302R | / | Original Report |
| | | | |
| | | | |

## 2. EUT Specification

| Characteristics | Description |
|---|---|
| **Product:** | Wireless smart glasses |
| **Model Number:** | HT-TW201 |
| **Sample:** | 1# |
| **Data Rate:** | 1Mbps for GFSK modulation<br>2Mbps for π/4-DQPSK modulation<br>3Mbps for 8DPSK modulation |
| **Modulation:** | GFSK, π/4-DQPSK, 8DPSK |
| **Operating Frequency Range(s) :** | 2402-2480MHz |
| **Number of Channels:** | 79 channels |
| **Transmit Power Max:** | -1.52 dBm(0.000705 W) |
| **Antenna Gain:** | 2.58 dBi |
| **Power supply:** | DC 5V from Magnetic charging interface<br>DC 3.7V from battery |
| **Evaluation applied:** | ☐ MPE Evaluation<br>☒ SAR Evaluation |

# 3. Test Requirement

## SAR Evaluation

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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

[(*max. power of channel, including tune-up tolerance, mW*)/(*min. test separation distance, mm*)] · [$\sqrt{f_{(GHz)}}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,[24] where

- $f_{(GHz)}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation[25]
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 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 5) in section 4.1 is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to quality for TCB approval.
One antenna is available for the EUT. The minimum separation distance is 5mm.

# 4. Measurement Result

Antenna gain:2.58 dBi

| Transmit Frequency( MHz) | Mode | Measured Power (dBm) | Tune upPower (dBm) | Max tune up power(dBm) | Calculation Result | 1-g SAR |
|---|---|---|---|---|---|---|
| 2402 | GFSK | -3.79 | -4±1 | -3 | 0.1554 | 3 |
| 2441 | GFSK | -5.7 | -6±1 | -5 | 0.0988 | 3 |
| 2480 | GFSK | -6.1 | -7±1 | -6 | 0.0791 | 3 |
| 2402 | Π/4-DQPSK | -2.01 | -1±1 | -2 | 0.1956 | 3 |
| 2441 | Π/4-DQPSK | -3.92 | -4±1 | -3 | 0.1566 | 3 |
| 2480 | Π/4-DQPSK | -4.57 | -5±1 | -4 | 0.1254 | 3 |
| 2402 | 8DPSK | -1.52 | -2±1 | -1 | 0.2462 | 3 |
| 2441 | 8DPSK | -3.55 | -4±1 | -3 | 0.1566 | 3 |
| 2480 | 8DPSK | -4.23 | -5±1 | -4 | 0.1254 | 3 |

According to 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***