

TEST REPORT

Applicant: Hannto Technology Co., Ltd.

Address: Room 704, Building 1, No. 88, Shengrong Road,

Pudong, Shanghai

Equipment Type: Portable Photo Printer

Model Name: ZPP110

Brand Name: Liene

FCC ID: 2AZHDZPP110

Test Standard: 47 CFR Part 2.1093 KDB 447498 D01 v06

Test Date: May 12, 2022 - May 23, 2022

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ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie zhu Checked by: Zong Liyao Approved by: Wei Yanguan

(Chief Engineer)

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Ciyao. Zong

and in



Revision History

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

| Company Name | Shenzhen BALUN Technology Co., Ltd. | |
|--------------|--|--|
| Addraga | Block B, 1/F, Baisha Science and Technology Park, Shahe West | |
| Address | Road, Nanshan District, ShenZhen, GuangDong Province, China | |
| Phone Number | +86 755 6685 0100 | |

1.2 Identification of the Responsible Testing Location

| Test Location | Shenzhen BALUN Technology Co., Ltd. | |
|---------------|---|--|
| Addraga | Block B, 1/F, Baisha Science and Technology Park, Shahe West | |
| Address | Road, Nanshan District, ShenZhen, GuangDong Province, China | |
| Accreditation | The laboratory is a testing organization accredited by FCC as a | |
| Certificate | accredited testing laboratory. The designation number is CN1196. | |
| | All measurement facilities used to collect the measurement data are | |
| Description | located at Block B, 1/F, Baisha Science and Technology Park, Shahe | |
| Description | West Road, Nanshan District, ShenZhen, GuangDong Province, | |
| | China | |



2 PRODUCT INFORMATION

2.1 Applicant Information

| Applicant | Hannto Technology Co., Ltd. |
|-----------|--|
| Address | Room 704, Building 1, No. 88, Shengrong Road, Pudong, Shanghai |

2.2 Manufacturer Information

| Manufacturer | Hannto Technology Co., Ltd. |
|--------------|--|
| Address | Room 704, Building 1, No. 88, Shengrong Road, Pudong, Shanghai |

2.3 Factory Information

| Factory | Dongguan Kaifa Technology Co., Ltd. | | |
|---------|---|--|--|
| Address | No. 2 Junma Road, Chigang Community, Humen Town, Dongguan | | |
| Address | City, Guangdong Province, China P.C. | | |

2.4 General Description for Equipment under Test (EUT)

| EUT Name | Portable Photo Printer |
|-----------------------|------------------------|
| Model Name Under Test | ZPP110 |
| Series Model Name | N/A |
| Description of Model | N/A |
| name differentiation | N/A |
| Hardware Version | X01a |
| Software Version | 002 |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |

2.5 Ancillary Equipment

| | Battery | | |
|-----------------------|-----------------|--------------------|--|
| | Brand Name | EVE | |
| | Model No. | P0946-HF | |
| Ancillary Equipment 1 | Serial No. | N/A | |
| Andiliary Equipment | Capacitance | 500 mAh | |
| | Rated Voltage | 7.4 V | |
| | Limited Voltage | 8.4 V | |
| | Manufacturer | EVE Energy CO, LTD | |



2.6 Technical Information

| Network and Wireless | Divistanti |
|----------------------|------------|
| connectivity | Bluetooth |

The requirement for the following technical information of the EUT was tested in this report:

| Operating Mode | Bluetooth | |
|-------------------|--|-------------------|
| Frequency Range | Bluetooth | 2400 ~ 2483.5 MHz |
| Antenna Type | Bluetooth | PCB |
| Exposure Category | General Population/Uncontrolled Exposure | |
| EUT Stage | Portable Device | |



3 SUMMARY OF TEST RESULT

3.1 Test Standards

| No. | Identity | Document Title | |
|-----|-------------|--|--|
| 1 | 47 CFR Part | Radiofrequency radiation exposure evaluation: portable devices | |
| ' | 2.1093 | | |
| 2 | KDB 447498 | KDB 447498 General RF Exposure Guidance D01 v06 | |
| 2 | D01 v06 | | |



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4 DEVICE CATEGORY AND LEVELS LIMITS

Portable Derives:

CFR Title 47 §2.1093(b)

(b) For purposes of this section, a portable device is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

FCC KDB 447498 D01 General RF Exposure Guidance v06 Limit

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 Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

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)] \cdot [$\sqrt{}$ f(GHz)] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR Where

- f (GHz) is the RF channel transmit frequency in GHz
- · Power and distance are rounded to the nearest mW and mm before calculation
- 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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



ASSESSMENT RESULT

5.1 Output Power

| Bluetooth | | | | |
|--|--------|-----------|--------|--|
| Mada | BR+EDR | | | |
| Mode | GFSK | π/4-DQPSK | 8-DPSK | |
| Peak Power (dBm) | 4.01 | 3.83 | 3.83 | |
| Note: This report listed the worst case peak power value, please refer to RF test report for more details. | | | | |

| Bluetooth | | | | | | | |
|--|-------------|----------------|--------------|--|--|--|--|
| Mode | GFSK (BLE) | | | | | | |
| | Low Channel | Middle Channel | High Channel | | | | |
| Peak Power (dBm) | 3.80 | 3.07 | 0.80 | | | | |
| Note: This report listed the worst case peak power value, please refer to RF test report for more details. | | | | | | | |

5.2 Turn-up power

| Mode | Conducted Power Range (dBm) | | |
|-----------|-----------------------------|--|--|
| Bluetooth | 0.50-4.50 | | |

5.3 RF Exposure Evaluation Result

| Mode | Tune-up limit | Distance | Calculation | Calculation | Threshold | Verdict |
|-----------|---------------|----------|-----------------|-------------|-----------|------------|
| | power (dBm) | (mm) | Frequency (MHz) | Results | Value | |
| Bluetooth | 4.50 | 5 | 2402 | 0.87 | 3.0 | Compliance |

5.4 Conclusion

This EUT is deemed to comply with the reference level limits, therefore the basic restrictions are compliant with human exposure limits.



Statement

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--END OF REPORT--