



RF TEST REPORT

Product Name: PeriPage Mini Printer

Model Name: ALD-P210, P21, ALD-P220, P22

FCC ID: 2ASPY-ALD-P210

Issued For : Xiamen Ilead Tek Co., Ltd.

Room 01, Unit 2101, No.50 Chengyi North Street, Software
Park Phase III, Xiamen, Fujian, China

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street,
Pingshan District, Shenzhen, Guangdong, China

Report Number: LGT24J031HA01

Sample Received Date: Oct. 11, 2024

Date of Test: Oct. 11, 2024 – Oct. 29, 2024

Date of Issue: Oct. 29, 2024

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TEST REPORT CERTIFICATION

Applicant: Xiamen Ilead Tek Co., Ltd.

Address: Room 01, Unit 2101, No.50 Chengyi North Street, Software Park
Phase III, Xiamen, Fujian, China

Manufacture: Xiamen Ilead Tek Co., Ltd.

Address: Room 01, Unit 2101, No.50 Chengyi North Street, Software Park
Phase III, Xiamen, Fujian, China

Product Name: PeriPage Mini Printer

Trademark: PeriPage

Model Name: ALD-P210, P21, ALD-P220, P22

Sample Status: Normal

| APPLICABLE STANDARDS | |
|---|--------------|
| STANDARD | TEST RESULTS |
| FCC 47CFR §2.1093 KDB 447498 D01 General RF Exposure Guidance v06 | PASS |

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Revision History

| Rev. | Issue Date | Revisions |
|------|---------------|---------------|
| 00 | Oct. 29, 2024 | Initial Issue |
| | | |



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

| | | |
|-------------------|---|--------------|
| Product Name: | PeriPage Mini Printer | |
| Trademark: | PeriPage | |
| Model Name: | ALD-P210 | |
| Series Model: | P21, ALD-P220, P22 | |
| Model Difference: | Only distinguish the sales market and the model name is different, the appearance of the printing pattern is different, and the appearance of the injection color is different, the appearance of the decoration is different, the rest such as the internal structure, the electrical schematic, the working mode and the key components that affect the safety and electromagnetic compatibility performance are the same, and the safety and electromagnetic compatibility performance of the product has no impact. | |
| Frequency Bands: | Bluetooth | 2402-2480MHz |
| Rating: | Input: DC 5V 1A | |
| Battery: | Rated Capacity: 1200mAh Rated Voltage: 3.7V | |
| Hardware Version: | VTR_58D3_YC3021_V2_0 | |
| Software Version: | VTR_P21_APP(HL)_YR2V4_01 | |

1.2 TEST LABORATORY

| | |
|---------------------------|--|
| Company Name: | Shenzhen LGT Test Service Co., Ltd. |
| Address: | Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China |
| Accreditation Certificate | A2LA Certificate No.: 6727.01 |
| | FCC Registration No.: 746540 |
| | CAB ID: CN0136 |



2. FCC 47CFR §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|-----|-----|-----|-----|-----|---|
| 150 | 39 | 77 | 116 | 155 | 194 | SAR Test Exclusion Threshold (mW) |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | |
| 1900 | 11 | 22 | 33 | 44 | 54 | |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |
| MHz | 30 | 35 | 40 | 45 | 50 | mm |
| 150 | 232 | 271 | 310 | 349 | 387 | SAR Test Exclusion Threshold (mW) |
| 300 | 164 | 192 | 219 | 246 | 274 | |
| 450 | 134 | 157 | 179 | 201 | 224 | |
| 835 | 98 | 115 | 131 | 148 | 164 | |
| 900 | 95 | 111 | 126 | 142 | 158 | |
| 1500 | 73 | 86 | 98 | 110 | 122 | |
| 1900 | 65 | 76 | 87 | 98 | 109 | |
| 2450 | 57 | 67 | 77 | 86 | 96 | |
| 3600 | 47 | 55 | 63 | 71 | 79 | |
| 5200 | 39 | 46 | 53 | 59 | 66 | |
| 5400 | 39 | 45 | 52 | 58 | 65 | |
| 5800 | 37 | 44 | 50 | 56 | 62 | |



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:

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

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 ≤ 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.



2.3 TEST RESULT

Turn up Result

| Mode | Turn up Power |
|----------|---------------|
| BLE-GFSK | -6±1dBm |

The MPE result of worst mode:

| RF Function | Frequency (MHz) | Max Turn up Power (dBm) | Max Turn up Power (mW) | Estimated SAR | Limit | Ratio | Result |
|-------------|-----------------|-------------------------|------------------------|---------------|-------|-------|--------|
| BLE | 2440 | -5.00 | 0.32 | 0.099 | 3 | 0.033 | Pass |

Note:

1. The estimated SAR ≤ 3.0 for 1-g SAR, Separation distance ≤ 5mm, complies with the exemption requirements.



APPENDIX I - PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS

Note: Please see the attached ALD-P210_EUT Photos.

※※※※※END OF THE REPORT※※※※※