



FCC 47 CFR PART 15 SUBPART B

Test Report

For

LED Facial Beauty Device

Model: MZ01

Brand Name: N/A

Report No.: ENC2412201GZ32E1

Date of Issue: Dec. 29, 2024

Prepared For

Shenzhen Liyoutong Technology Co., Ltd.

**3-1, Wanxin Street, Pinghuan Community, Maluan Street, Pingshan District,
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Prepared By

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1. GENERAL INFORMATION

Applicant:	Shenzhen Liyoutong Technology Co., Ltd.
Address:	3-1, Wanxin Street, Pinghuan Community, Maluan Street, Pingshan District, Shenzhen, China
Product Description:	LED Facial Beauty Device
Brand Name:	N/A
Model Number:	MZ01
Series Model Difference:	N/A
Manufacturer:	Shenzhen Liyoutong Technology Co., Ltd.
Address:	3-1, Wanxin Street, Pinghuan Community, Maluan Street, Pingshan District, Shenzhen, China
Report Number:	ENC2412201GZ32E1
Date of Test:	Dec. 20, 2024 - Dec. 29, 2024
Standards:	FCC 47 CFR Part 15 Subpart B

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Should any objections to the test reports occurred, should submit it to the company within ten days since the issuing of the report, Fail to accept.

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

Checked By

Yemig

Yemig Dec. 29, 2024

Authorized By

Ray Zhou

Ray Zhou Dec. 29, 2024

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Standard	Test Item	Result	Remark
FCC 47 CFR Part 15 Subpart B	Conducted (Power Port)	PASS	Meet Class B limit
	Radiated (Below 1GHz)	PASS	Meet Class B limit
	Radiated (Above 1GHz)	N/A	No Requirement

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3. FACILITIES AND ACCREDITATIONS

3.1 TEST FACILITY

All test facilities used to collect the test data are located at 1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District, Guangzhou City, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4, CISPR 16-1-1 and other equivalent standards

3.2. TEST EQUIPMENT LIST

Instrumentation: The following list contains equipments used at **ENC** for testing. The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

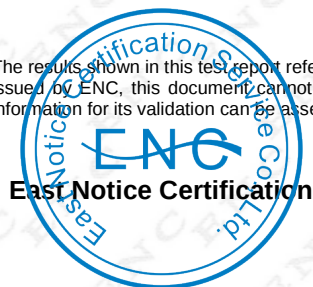
Conducted Emission Test at Mains Ports					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	00052765	14/02/2025
2	50Ω Terminator	SHX	TF2-3G-A	08122901	14/02/2025
3	Transient Limiter	Agilent	11947A	3107A03668	14/02/2025
4	Test Cable	N/A	C-06_C03	N/A	14/02/2025
5	Emi Test Receiver	R&S	ESCS30	8333641017	14/02/2025

Radiated Emission Test (3m Chamber 30MHz-1GHz)					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	ETS	3115	00075789	14/02/2025
3	Spectrum	Agilent	E4408B	US39240143	14/02/2025
4	Test Cable	HUBER+SUHNER	GZ02 High Fre	N/A	14/02/2025
6	EMI	HP	8447D	2944A09673	14/02/2025
7	Test Receiver	R&S	ESCI	100895	14/02/2025
9	Controller	CT	SC100	N/A	N/A

3.3 LABORATORY ACCREDITATIONS AND LISTINGS

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories

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4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ANSI C63.4 and CISPR 22:

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)	NOTE
GZ-C03	CISPR	450 KHz ~ 30MHz	1.60	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)	NOTE
GZ-C02	CISPR	30MHz ~ 1,000MHz	H/V	3.10	

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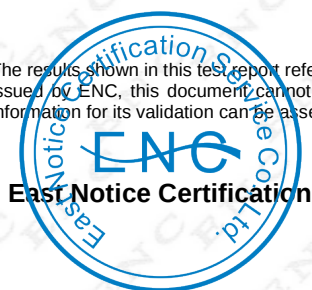




5. GENERAL DESCRIPTION OF EUT

Equipment: LED Facial Beauty Device
Model Number: MZ01
Technical Data: DC 5V, 0.5A by USB port or Mobile power supply (1200mAh)

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6. FCC CONDUCTED EMISSION TEST

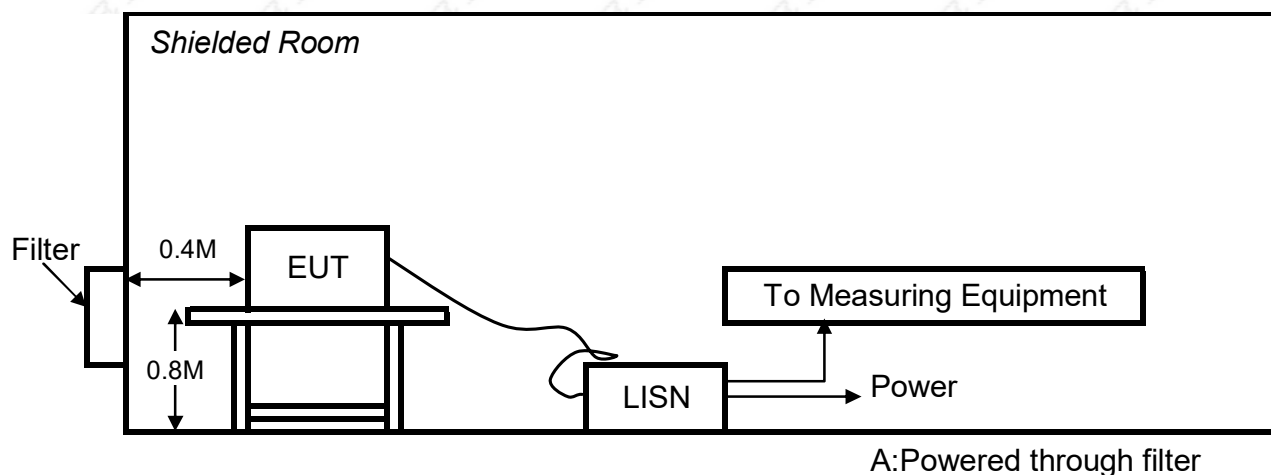
6.1 LIMITS OF FCC CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.(dB μ V)	Average(dB μ V)
150kHz-500kHz	66-56**	56-46**
500kHz-5MHz	56	46
5MHz-30MHz	60	50

****Note:** 1. The lower limit shall apply at the transition frequency.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

6.2 BLOCK DIAGRAM OF TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

6.3 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.
- The bandwidth of the field strength meter (Receiver) was set at 9kHz in 450kHz ~ 30MHz.

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6.4 TEST RESULT OF CONDUCTED EMISSION TEST

DC mode is not applicable.

Not Applicable.

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7. FCC RADIATED EMISSION TEST

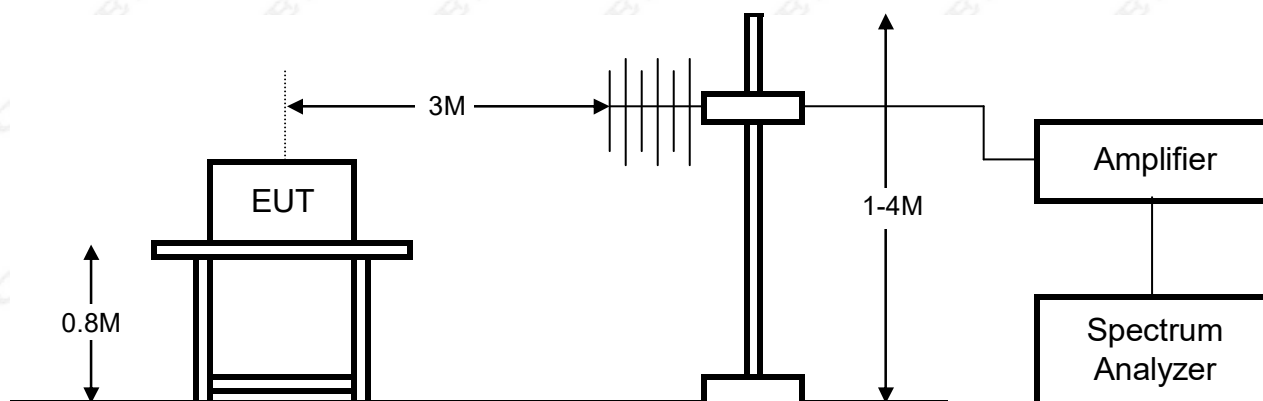
7.1 LIMITS OF FCC RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit** (dBuV/m Q.P.)
30MHz-88MHz	3	40.0
88MHz-216MHz	3	43.5
216MHz-1000MHz	3	46.0

NOTE: 1. The lower limit shall apply at the transition frequency.

2. The limits shown above are based on measuring equipment employing a CISPR quasi-peak detector function for frequencies below or equal to 1000MHz.

7.2 BLOCK DIAGRAM OF TEST SETUP



For the actual test configuration, please refer to the related item-Photographs of the Test Configuration.

7.3 PROCEDURE OF RADIATED EMISSION TEST

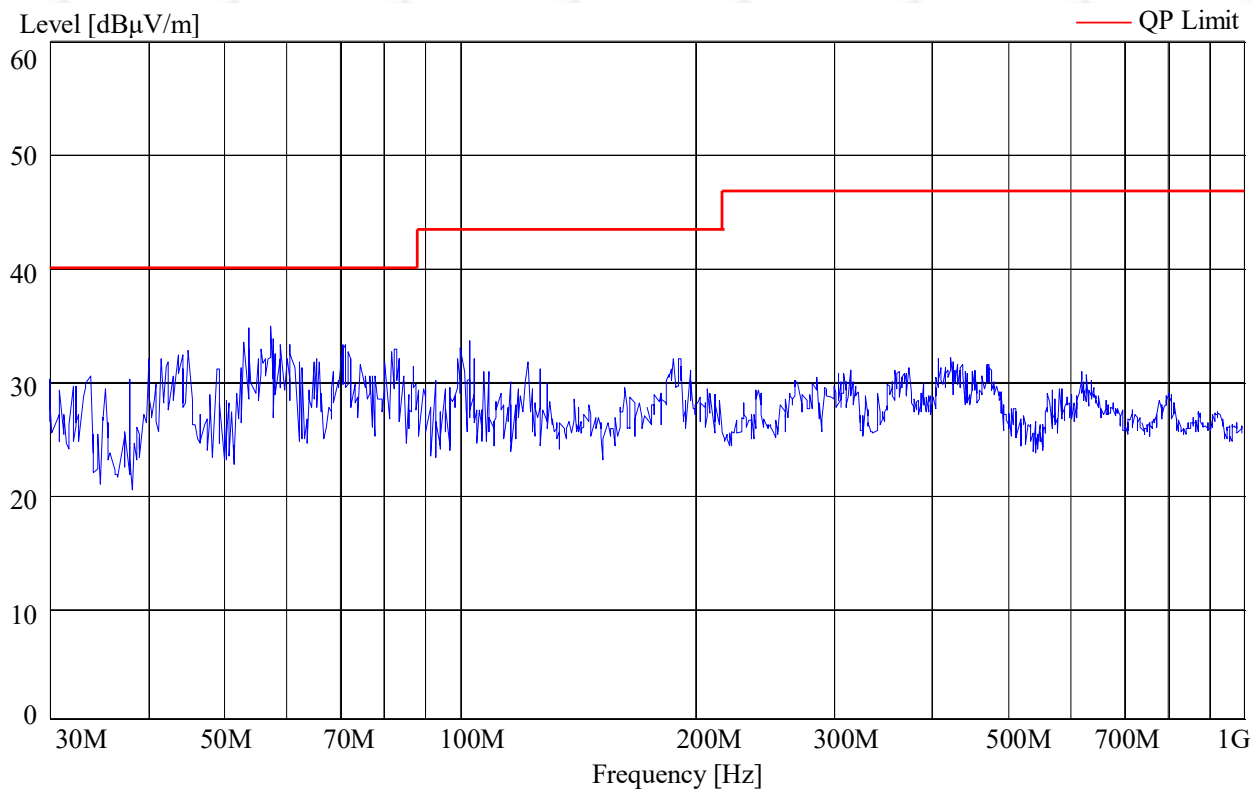
- The EUT was placed on the top of a turntable 0.8 meters above the ground in the chamber, 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The table was rotated 360 degrees and the broadband antenna is varied from one to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the turn table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test frequency analyzer system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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7.4 TEST RESULT OF RADIATED EMISSION TEST

EUT:	LED Facial Beauty Device	Model:	MZ01
Temperature:	22 °C	Relative Humidity:	52%
Pressure:	1012hPa	Test Voltage:	DC 5V 0.5A
Test Mode:	Normal	Polarization:	Horizontal

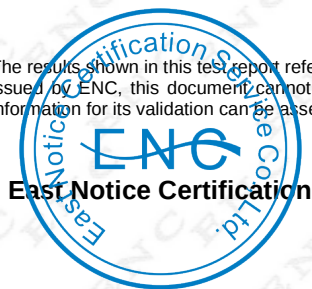
Radiated Emission Measurement



No.Mk.	Freq.	Reading	Correct	Measure-			Antenna	Table
	MHz	Level	Factor	ment	Limit	Over	Height	Degree
		dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree
1	52.371	32.28	0.16	32.44	40.00	-7.56	peak	
2 *	56.956	32.30	0.16	32.46	40.00	-7.54	peak	
3	70.085	31.79	0.16	31.95	40.00	-8.05	peak	
4	81.228	31.41	0.17	31.58	40.00	-8.42	peak	

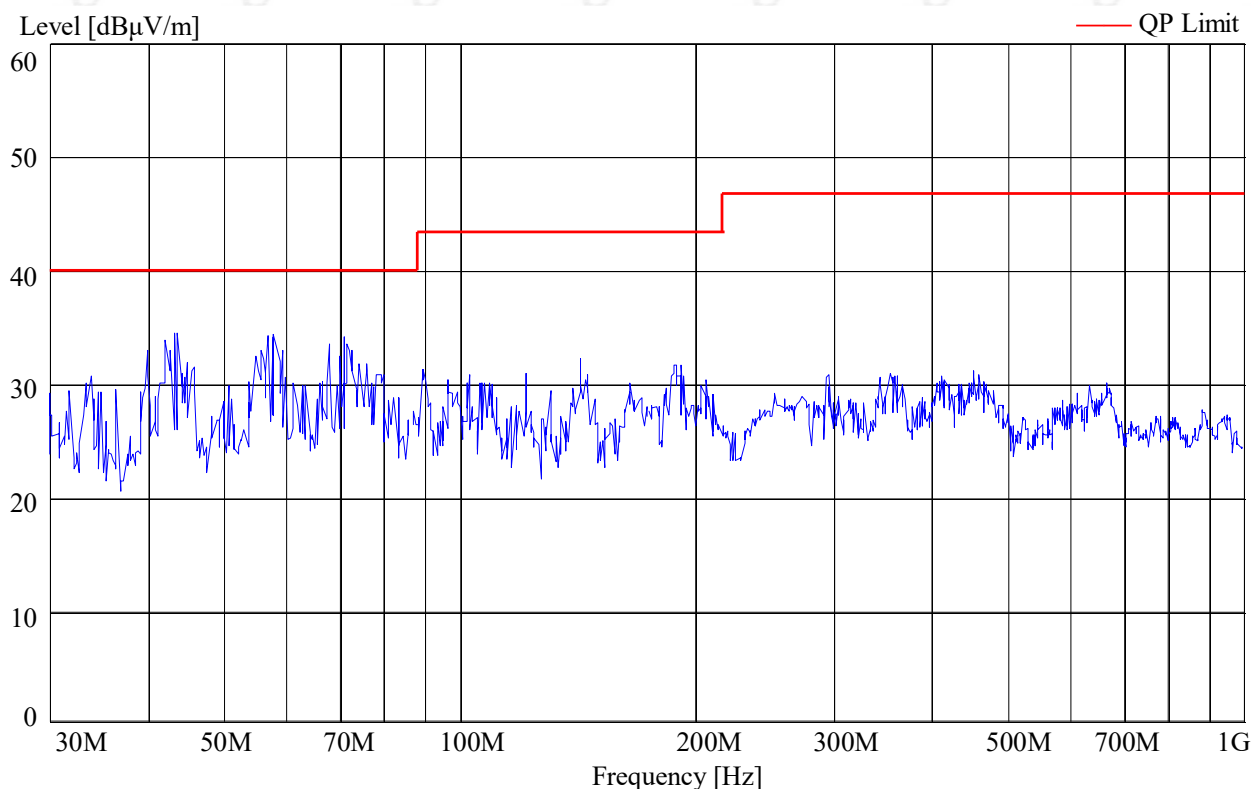
TEST RESULT: PASS

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EUT:	LED Facial Beauty Device	Model:	MZ01
Temperature:	22 °C	Relative Humidity:	52%
Pressure:	1012hPa	Test Voltage:	DC 5V 0.5A
Test Mode:	Normal	Polarization:	Vertical

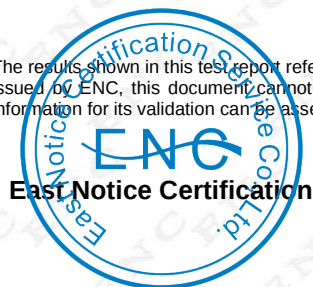
Radiated Emission Measurement



No.Mk.	Freq. MHz	Reading Level dBμV	Correct Factor dB	Measure- ment dBμV/m	Limit dBμV/m	Over dB	Detector	Antenna Height cm	Table Degree degree
1	43.214	32.09	0.15	32.24	40.00	-7.76	peak		
2	57.086	32.15	0.16	32.31	40.00	-7.69	peak		
3	67.168	31.89	0.16	32.05	40.00	-7.95	peak		
4 *	70.086	32.10	0.16	32.26	40.00	-7.74	peak		

TEST RESULT: PASS

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8. FCC PRODUCT LABELING AND WARNING STATEMENT

8.1 PROPOSED FCC LABEL FORMAT



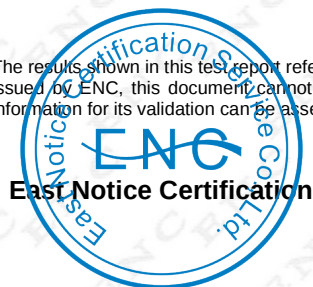
8.2 FCC WARNING STATEMENTS

The FCC labels should contain FCC statement in FCC 15 .19 paragraph (3). If the EUT is too small, the statement could contain in the product manual. A sample of the statement is presented hereinafter as reference.

“ This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

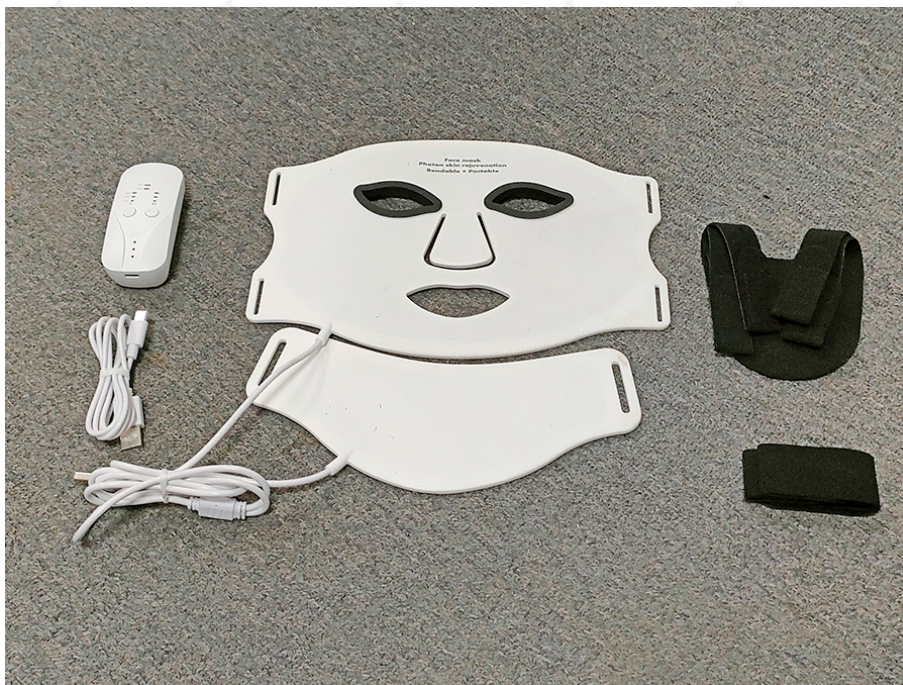
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APPENDIX I

PHOTOGRAPH(S) OF THE EUT

Overall View of EUT



Font View of EUT



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Side View of EUT



Front View of Controller



-----END OF REPORT-----

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