

TEST REPORT

Report No.: BCTC2503996834-1E

Applicant: REOLINK INNOVATION LIMITED

Product Name: WiFi IP Camera

Test Model: E1 Outdoor

Tested Date: 2025-03-06 to 2025-04-25

Issued Date: 2025-05-12

Shenzhen BCTC Testing Co., Ltd.



Product Name: WiFi IP Camera

Trademark: 

Model/Type reference: E1 Outdoor
E Series E540

Prepared For: REOLINK INNOVATION LIMITED

Address: FLAT/RM 705 7/F FA YUEN COMMERCIAL BUILDING 75-77 FA YUEN
STREET MONG KOK KL HONG KONG

Manufacturer: REOLINK INNOVATION LIMITED

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STREET MONG KOK KL HONG KONG

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road,
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Sample Received Date: 2025-03-06

Sample tested Date: 2025-03-06 to 2025-04-25

Issue Date: 2025-05-12

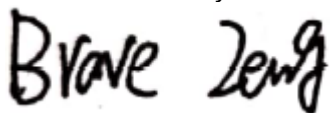
Report No.: BCTC2503996834-1E

Test Standards: EN IEC 62311:2020

Test Results: PASS

Remark: This is RED Health test report.

Tested by:



Brave Zeng/ Project Handler

Approved by:



Zero Zhou/Reviewer

The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen BCTC Testing Co., Ltd, this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client.

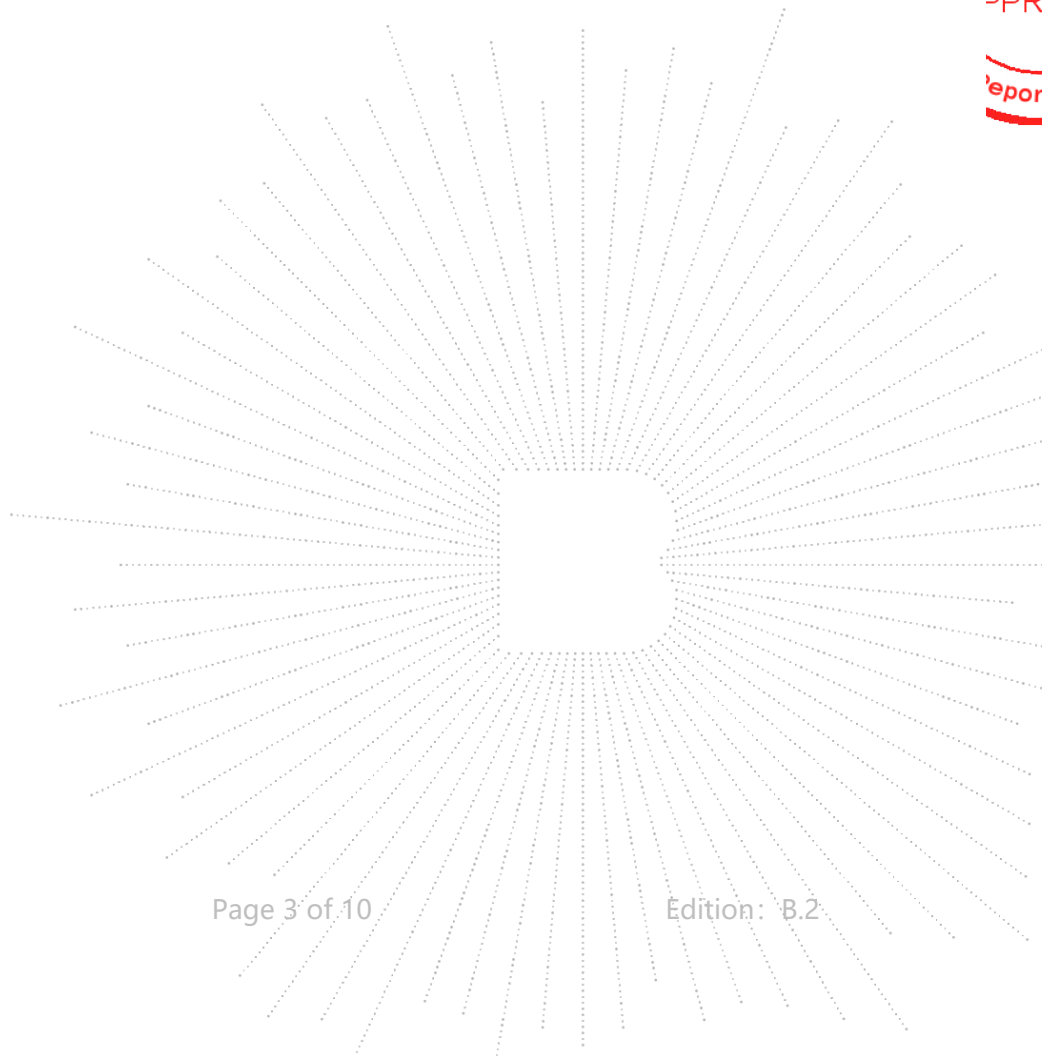


Table Of Content

Test Report Declaration	Page
1. Version	4
2. Product Information And Test Setup	5
2.1 Product Information	5
3. Health Requirements	6
3.1 Limits	6
3.2 Exposure Evaluation	7
4. EUT Photographs	8

(Note: N/A Means Not Applicable)

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Report



1. Version

Report No.	Issue Date	Description	Approved
BCTC2503996834-1E	2025-05-12	Original	Valid

2. Product Information And Test Setup

2.1 Product Information

Model/Type reference:	E1 Outdoor E Series E540
Model differences:	All the model are the same circuit and RF module, except model names. The test model is E1 Outdoor.
Bluetooth version:	5.4
Hardware Version:	N/A
Software Version:	N/A
Operation Frequency:	Bluetooth(BLE): 2402-2480MHz WIFI(2.4GHz): IEEE 802.11b/g/n HT20/ax HT20: 2412-2472MHz IEEE 802.11n HT40/ax HT40: 2422-2462MHz WIFI(5 GHz): 5150MHz-5350MHz, 5470MHz-5725MHz WIFI(5.8GHz): IEEE 802.11a/n/ac HT20/ax HT20: 5745MHz-5825MHz IEEE 802.11n/ac HT40/ax HT40: 5755 MHz-5795MHz
Max. RF output power:	Bluetooth(BLE): 8.07 dBm WIFI(2.4GHz): 12.54 dBm WIFI(5.1GHz): 10.28 dBm WIFI(5.3GHz): 9.49 dBm WIFI(5.6GHz): 12.04 dBm WIFI(5.8GHz): 10.39 dBm
Type of Modulation:	Bluetooth(BLE): GFSK WIFI(2.4GHz): DSSS, OFDM, OFDMA WIFI(5GHz): OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, OFDMA WIFI(5.8GHz): DSSS, OFDM, OFDMA
Antenna installation:	Internal antenna
Antenna Gain:	Bluetooth(BLE): 2.6 dBi WIFI(2.4GHz): 2.6 dBi WIFI(5GHz): 4.2 dBi WIFI(5.8GHz): 4.2 dBi Remark: ☒ The antenna gain of the product comes from the antenna report provided by the customer, and the test data is affected by the customer information. ☐ The antenna gain of the product is provided by the customer, and the test data is affected by the customer information.
Ratings:	DC 12V from adapter
Adapter 1 Information:	Model: DCT12W120100EU-B0 Input: 100-240V~50/60Hz 0.3A max. Output: 12.0V = 1.0A 12.0W
Adapter 2 Information:	MODEL: TS-A012-120100Ex INPUT: 100-240V~50/60Hz 0.4A OUTPUT: 12.0V = 1.0A 12.0W
Adapter 3 Information:	MODEL: ADS-12AM-12 12012EPG INPUT: 100-240V~50/60Hz Max. 0.3A OUTPUT: 12.0V = 1.0A 12.0W

3. Health Requirements

3.1 Limits

According to Council Recommendation: the criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

Reference levels for electric, magnetic and electromagnetic fields (0Hz to 300GHz, unperturbed RMS values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density Seq (W/m2)
0-1 Hz	-	3.2×10^4	4×10^4	-
1-8 Hz	10000	$3.2 \times 10^4 / f^2$	$4 \times 10^4 / f^2$	-
8-25 Hz	10000	$4000 / f$	$5000 / f$	-
0.025-0.8 kHz	$250 / f$	$4 / f$	$5 / f$	-
0.8-3 kHz	$250 / f$	5	6.25	-
3-150 kHz	87	5	6.25	-
0.15-1 MHz	87	$0.73 / f$	$0.92 / f$	-
1-10 MHz	$87 / f^{1/2}$	$0.73 / f$	$0.92 / f$	-
10-400 MHz	28	0.073	0.095	2
400-2000 MHz	$1.375 f^{1/2}$	$0.0037 f^{1/2}$	$0.0046 f^{1/2}$	$f / 200$
2-300 GHz	61	0.16	0.2	10

Note:

1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, Seq, E², H² and B² are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, Seq, E², H² and B² are to be averaged over any $68 / f^{1.05}$ minute period (f in GHz).

3.2 Exposure Evaluation

From Council Recommendation 1999/519/EC table 2, the maximum power density is 10 W/m².

Power density (S) is calculated by the following formula:

$$S = PG * \text{Duty factor} / 4\pi R^2$$

P = Peak Power Input to antenna (Watts)

G =Antenna Gain (numeric)

R = distance to the center of radiation of antenna (in meter) = 0.20 m

Note:

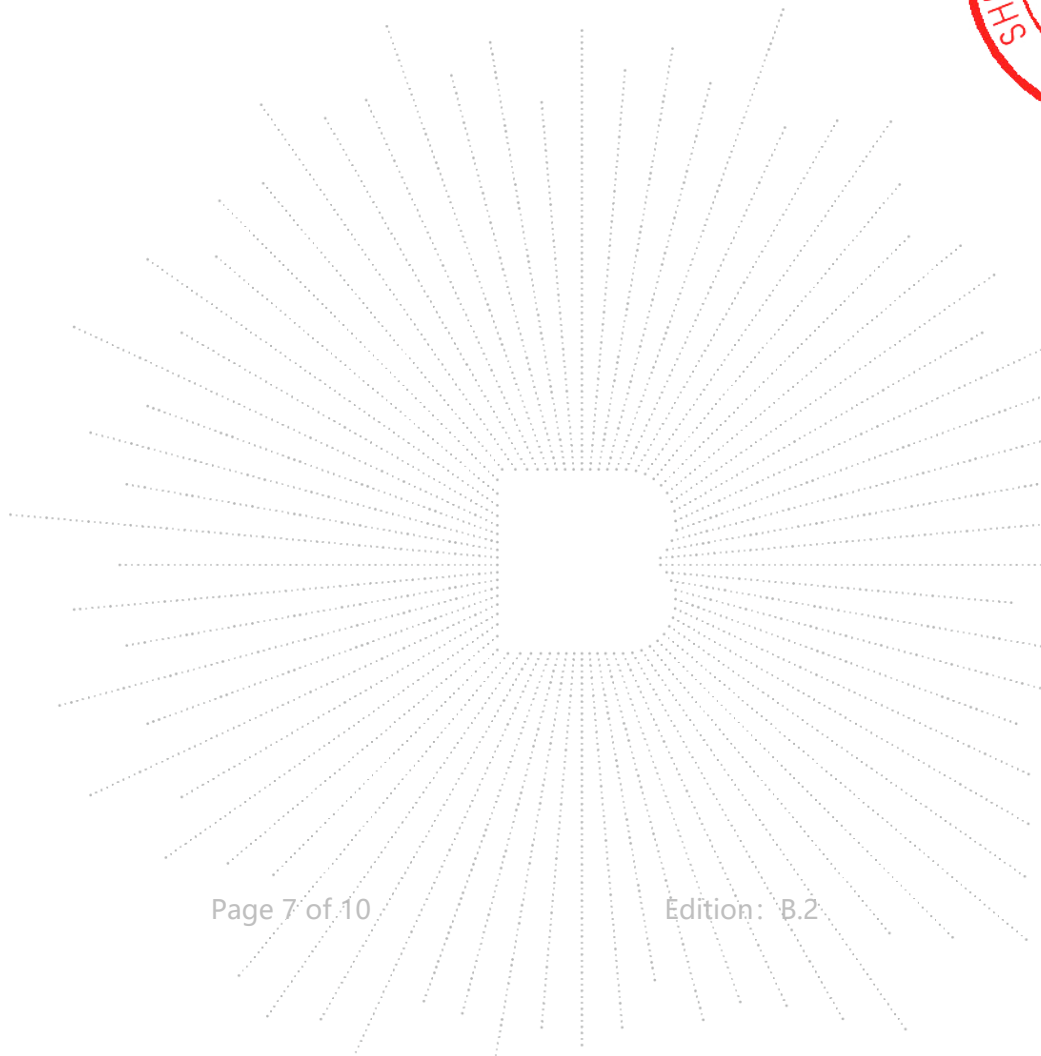
1) $P \text{ (Watts)} = (10^{(\text{dBm} / 10)}) / 1000$

2) $G \text{ (Antenna gain in numeric)} = 10^{(\text{Antenna gain in dBi} / 10)}$

3) Duty factor=1.0

4) $\pi = 3.142$

	Antenna Gain (dBi)	Antenna Gain (numeric)	Max. EIRP Power (dBm)	Max. EIRP Power (W)	Duty factor	Calculated RF Exposure (W/ m ²)	Limit (W/ m ²)
BLE	2.6	1.82	8.07	0.0064	1	0.0232	10
2.4GHz	2.6	1.82	12.54	0.0179	1	0.0650	10
5.1GHz	4.2	2.63	10.28	0.0107	1	0.0558	10
5.3GHz	4.2	2.63	9.49	0.0089	1	0.0465	10
5.6GHz	4.2	2.63	12.04	0.0160	1	0.0837	10
5.8GHz	4.2	2.63	10.39	0.0109	1	0.0572	10

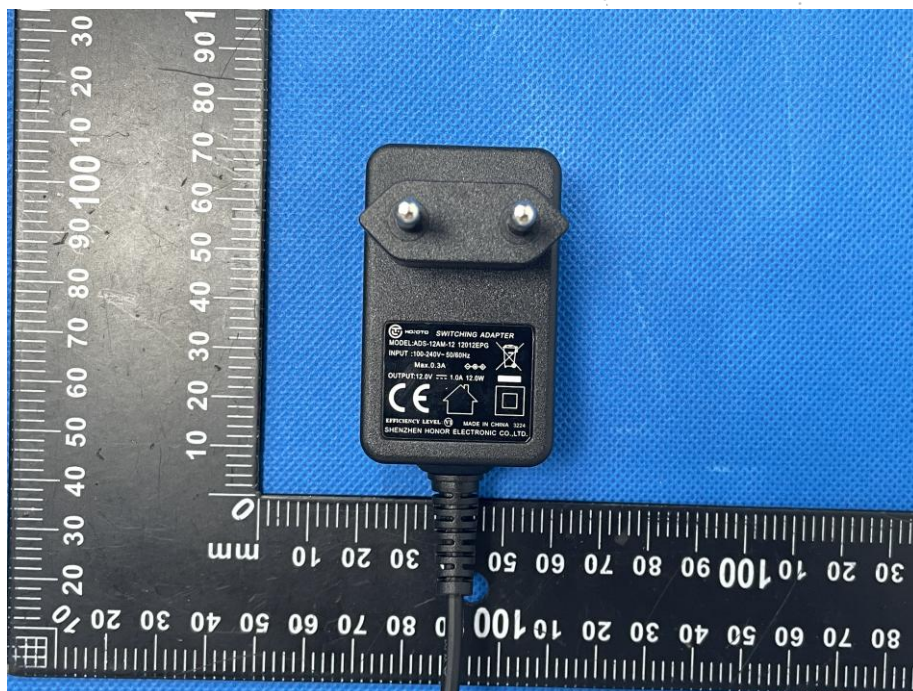


4. EUT Photographs

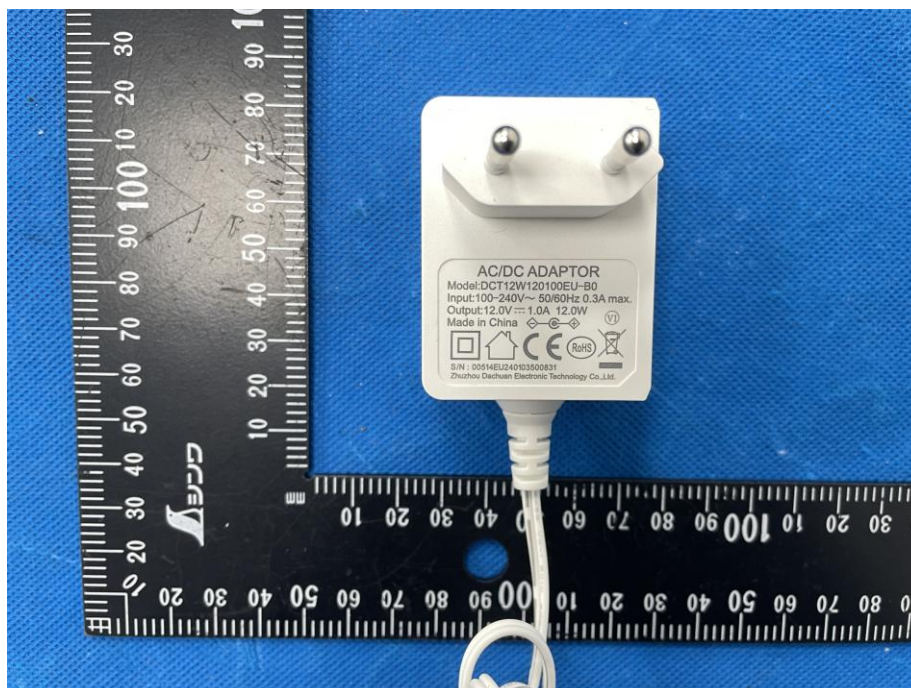
EUT Photo 1



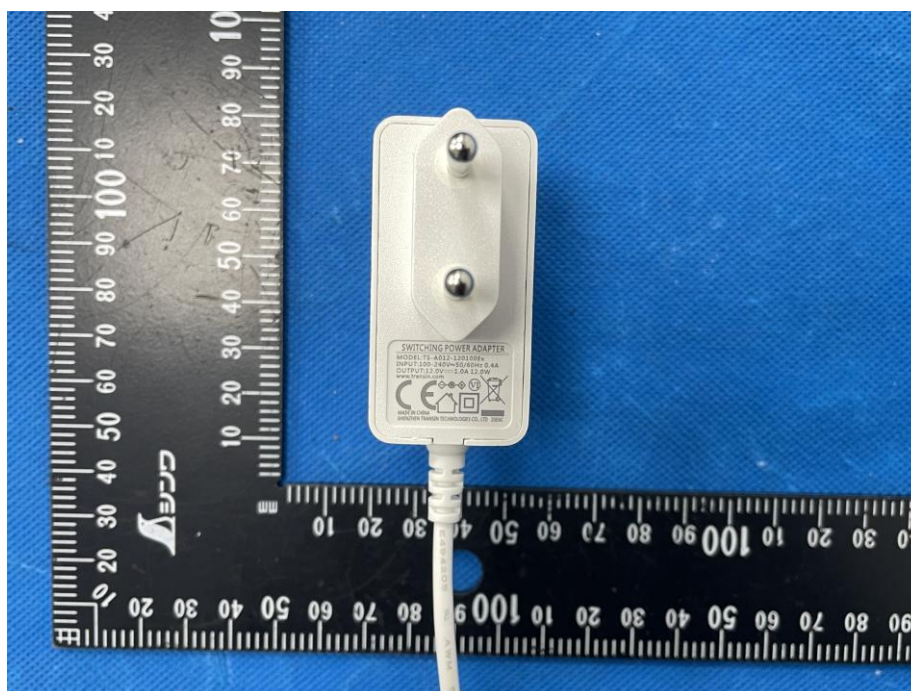
EUT Photo 2



EUT Photo 3



EUT Photo 4



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NOTE: Appendix-Photographs Of EUT Constructional Details.

STATEMENT

1. The equipment lists are traceable to the national reference standards.
2. The test report can not be partially copied unless prior written approval is issued from our lab.
3. The test report is invalid without the "special seal for inspection and testing".
4. The test report is invalid without the signature of the approver.
5. The test process and test result is only related to the Unit Under Test.
6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
7. The quality system of our laboratory is in accordance with ISO/IEC17025.
8. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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***** END *****

