

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FC545D

Report No. : BTL-FCCP-3-2508C295
Equipment : Outdoor Dual Lens Pan/Tilt Security Camera
Model Name : Tapo C545D, TC47
Brand Name : tp-link
Test Model : Tapo C545D
Software Version : 1.X
Hardware Version : 1.0
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Factory : Lianzhou International Co., Ltd. Guangming Branch
Address : Room -101, 1F-8F, C901, C1001, C1101, C1201, No.198, Kelian Road, Yutang Community, Yutang Street, Guangming District, Shenzhen City, Guangdong Province, P.R.China

Radio Function : Bluetooth Low Energy, WLAN 2.4GHz

FCC Rule Part(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

Date of Receipt : 2025/8/25

Date of Test : 2025/8/26 ~ 2025/8/29

Issued Date : 2025/9/28

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2508C295	R00	Original Report.	2025/9/19	Invalid
BTL-FCCP-3-2508C295	R01	This report corrected the FCC ID in page 1. It is a revision of the report BTL-FCCP-3-2508C295 R00. This is a newly released report, replacing the BTL-FCCP-3-2508C295 R00 report.	2025/9/28	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi R^2} = \frac{EIRP}{4\pi R^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

2. ANTENNA SPECIFICATION

For BLE:

Ant.	Manufacturer	Model Name	Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	N/A	dipole	N/A	0.5

For 2.4GHz:

Ant.	Manufacturer	Model Name	Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	N/A	dipole	N/A	0.5
2	TP-Link Systems Inc.	N/A	dipole	N/A	0.5

Note: Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used. The worst case is Ant. 1 and recorded.

The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3. CALCULATED RESULT

For BLE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.5	1.1220	5.47	3.5237	0.00079	1	Complies

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
0.5	1.1220	19.38	86.6962	0.01936	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) $\text{Ratio} = \text{Power Density (S) (mW/cm}^2\text{)} / \text{Limit of Power Density (S) (mW/cm}^2\text{)}$
- (3) WLAN 2.4GHz and LE can not simultaneous transmission.

End of Test Report