

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FC425V2

Report No. : BTL-FCCP-3-2410G041
Equipment : Smart Wire-Free Indoor/Outdoor Security Camera
 Battery-Powered Outdoor Security Camera
 Wire-Free Indoor/Outdoor Security Camera
Model Name : Tapo C425, TC85
Brand Name : tapo, tp-link
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618

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 : 2025/3/13
Date of Test : 2025/3/14~2025/3/24
Issued Date : 2025/3/28

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-3-2410G041	R00	Original Report.	2025/3/28	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

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

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 LE:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101507068	Dipole	N/A	0

Note: 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.

For 2.4G

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101507068	Dipole	N/A	0
2	tp-link	3101507069	Dipole	N/A	0

Note:

- (1) 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.
- (2) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

3. CALCULATED RESULT

For BT LE:

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	1.0000	0.33	1.0789	0.00021	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	1.0000	22.30	169.8244	0.03380	1	Complies

Note:

- (1) The calculated distance is 20 cm.
- (2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)
- (3) BT LE and WLAN 2.4GHz can not simultaneous transmission

End of Test Report