

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FC615F

Project No. : 2508C331
Equipment : Battery-Powered Floodlight Pan/Tilt Security Camera
Brand Name : tp-link
Test Model : Tapo C615F
Model Name : Tapo C615F
Hardware Version : 1.0
Software Version : 1.X
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : Aug. 21, 2025
Date of Test : Aug. 21, 2025 ~ Sep. 04, 2025
Issued Date : Sep. 16, 2025
Test Sample : Engineering Sample No.: DG9202508213
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
 FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2508C331	R00	Original Report.	Sep. 16, 2025	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 BLE & WLAN 2.4GHz:

Ant.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	Tapo C615F+ANT1	Dipole	N/A	1.90
2	TP-Link Systems Inc.	6035500079	PIFA	N/A	1.42

Note:

- 1) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.
- 2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.90	1.5488	9.88	9.7275	0.00300	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
1.90	1.5488	21.57	143.5489	0.04965	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
LE	2.4GHz			
0.00300	0.04965	0.05265	1	Complies

Note:

(1) The calculated distance is 20 cm.

(2) Ratio=Power Density (S) (mW/cm²)/Limit of Power Density (S) (mW/cm²)

End of Test Report