

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FC206

Report No. : BTL-FCCP-2-2411G036
Equipment : Indoor/Outdoor Pan/Tilt Security Wi-Fi Camera
Model Name : Tapo C216, Tapo C206, TC30, TC31, Tapo C207, Tapo C217, TCW30
Test Model : Tapo C216
Brand Name : 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 : 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 : 2025/2/5

Date of Test : 2025/2/11 ~ 2025/2/19

Issued Date : 2025/3/27

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-2-2411G036	R00	Original Report.	2025/3/27	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

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	Tapo C216+ANT	IFA	N/A	0.5
2	TP-Link Systems Inc.	6035500234	PIFA	N/A	0.5

Note:

- 1) This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.

For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=0.5.

For power spectral density measurements, $N_{ANT}=2$, $N_{SS} = 1$.

So the Directional gain= $G_{ANT} + \text{Array Gain} = G_{ANT} + 10\log(N_{ANT}/N_{SS})\text{dBi} = 0.5 + 10\log(2/1)\text{dBi} = 3.51$.

- 2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

Directional Gain (dBi)	Directional 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	22.62	182.8100	0.04083	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report