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.

Prepared by : Poken Huang

Poken Huang, Engineer

Approved by : Peter Chen

Peter Chen, Manager

BTL Inc.
No.18, Ln. 171, Sec. 2, Jiuzong Rd., Neihu Dist., Taipei City 114, Taiwan
Tel: +886-2-2657-3299 Fax: +886-2-2657-3331 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

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}+Array Gain.
For power measurements, Array Gain=0dB (N_{ANT}≤4), so the Directional gain=0.5.
For power spectral density measurements, N_{ANT}=2, N_{SS} = 1.
So the Directional gain=G_{ANT}+Array Gain=G_{ANT}+10log(N_{ANT}/ N_{SS})dBi=0.5+10log(2/1)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