FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4C310V2

Project No.	:	2005C005M
Equipment	:	Outdoor Security Wi-Fi Camera
Brand Name	:	tp-link
Test Model	:	Tapo C310
Model Name	:	Tapo C310
Applicant	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer	:	TP-Link Corporation Limited
Address	:	Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
Date of Receipt	:	Sep. 02, 2020 Jul. 29, 2021
Date of Test	:	Sep. 03, 2020 ~ Oct. 29, 2020
Issued Date	:	Sep. 08, 2025
Test Sample	:	Engineering Sample No.: DG2020090292
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)

Prepared by : Sheldon Ou

Sheldon Ou

Approved by : Chay Cai

Chay Cai

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.
Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2005C005M	R00	This is a copy report which referencing test data are provided from the original test report (BTL-FCCP-2-2005C005F). 1. Updated the standard. 2. The product has below changes: a. Changed the adapter. b. The signal transformer manufacturer was changed, and a pin-to-pin switch was made. c. The descriptions of antenna are changes. And the antenna gains are decreased to 0.50dBi from 2.04dBi. So the test result is re-calculated. Other are kept the same with original report.	Sep. 08, 2025	Valid

Remark: For the original report (BTL-FCCP-2-2005C005F), the test data, data evaluation, and equipment configuration contained was accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).

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

Table for Filed Antenna:

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101503989	Dipole	Weld	0.50
2	tp-link	3101503989	Dipole	Weld	0.50

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=0.50.
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=0.50+10log(2/1)dBi=3.51.
2) The antenna gain is provided by the manufacturer.

Table for Antenna Configuration:

Operating Mode / TX Mode	2TX
IEEE 802.11b	V(Ant. 1 + Ant. 2)
IEEE 802.11g	V(Ant. 1 + Ant. 2)
IEEE 802.11n(HT20)	V(Ant. 1 + Ant. 2)

2. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
0.50	1.1220	21.43	138.9953	0.03104	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report