

FCC RF EXPOSURE REPORT

FCC ID: 2BCGWC500V2

Project No. : 2405G026
Equipment : Outdoor Pan/Tilt Security Wi-Fi Camera
Brand Name : tp-link
Test Model : Tapo C500
Series Model : Tapo C510W
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt : May 10, 2024
Date of Test : Jun. 14, 2024 ~ Jul. 11, 2024
Issued Date : Jul. 29, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL20240510228
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.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2405G026	R00	Original Report.	Jul. 29, 2024	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.	Manufacturer	P/N	Antenna Type	Connector	Gain (dBi)
1	TP-LINK CORPORATION PTE. LTD.	C500-Ant1	Monopole	N/A	0.5
2	TP-LINK CORPORATION PTE. LTD.	C500-Ant2	Monopole	N/A	0.5

Note:

- 1) This EUT supports 1TX, but there are two mirror antennas inside the prototype, which will be intelligently switched to the antenna with strong signal when used.
- 2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

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
0.5	1.1220	19.56	90.3649	0.02018	1	Complies

Note:

- (1) The calculated distance is 20 cm.

End of Test Report