

# FCC RF EXPOSURE REPORT

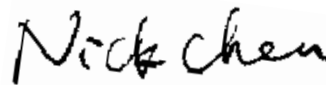
## FCC ID: 2BCGWC500V2

**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.

Prepared by

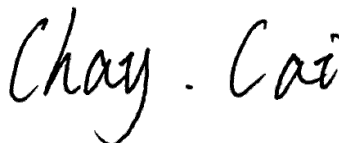
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Approved by

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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 <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	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**