FCC RF Exposure Report

FCC ID: 2BH7FC840

Report No.	:	BTL-FCCP-5-2411G034
Equipment	:	Dual-Lens Smart Baby Camera
Model Name	:	Tapo C840
Brand Name	:	tp-link, tapo
Applicant	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Manufacturer	:	TP-Link Systems Inc.
Address	:	10 Mauchly, Irvine, CA 92618
Standard(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	:	2025/1/16
Date of Test	:	2025/1/17 ~ 2025/2/25
Issued Date	:	2025/6/4

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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BTL Inc.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-5-2411G034	R00	Original Report.	2025/6/4	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

For BLE:

Ant.	Brand Name	P/N	Type	Connector	Gain (dBi)
1	tp-link	Tapo C840+ANT1	Dipole	N/A	0.5

Note: The antenna gain is provided by the manufacturer.

For 2.4GHz:

Ant.	Brand Name	P/N	Type	Connector	Gain (dBi)
1	tp-link	Tapo C840+ANT1	Dipole	N/A	0.5
2	tp-link	Tapo C840+ANT2	Dipole	N/A	0.5

Note:
(1) This EUT supports CDD(except the IEEE 802.11b and g mode), and all antenna gains are not equal, Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB ($N_{ANT} \leqslant 4$), so the Directional gain=0.5.
(2) The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand Name	P/N	Type	Connector	Gain (dBi)
1	tp-link	Tapo C840+ANT1	Dipole	N/A	0.5
2	tp-link	Tapo C840+ANT2	Dipole	N/A	0.5

Note:
(1) The EUT supports CDD (except the IEEE 802.11a mode). and all antenna gains are not equal, Directional gain = G_{ANT}+Array Gain. For power measurements, Array Gain=0dB ($N_{ANT} \leqslant 4$), so the Directional gain=0.5.
(2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For LE:

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	10.56	11.3763	0.00254	1	Complies

For 2.4GHz:

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	26.09	406.4433	0.09077	1	Complies

For 5GHz:

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	25.54	358.0964	0.07997	1	Complies

For the max simultaneous transmission MPE:

Ratio			Total	Limit of Ratio	Test Result
LE	2.4GHz	5GHz			
0.00254	0.09077	0.07997	0.17328	1	Complies

Note:
(1) The calculated distance is 20 cm.
(2) Output power including tune up tolerance.

End of Test Report