



MPE Calculation

Applicant:	Hangzhou Huacheng Software Technology Co., Ltd.
Address:	15th Floor, Building 3, No. 582, Liye Road, Changhe Street, Binjiang District, Hangzhou, China
Product:	CONSUMER CAMERA
FCC ID:	2BQWU-B7CXXM0S
Model No.:	IPC-B7C-3M0WEH, IPC-B7C-5M0WEH, IPC-B7C-3M0WEH-imou, IPC-B7C-5M0WEH-imou, imou-IPC-B7C-3M0WEH/FSP12-TYPEC, imou-IPC-B7C-5M0WEH/FSP12-TYPEC, KIT/imou-IPC-B7C-3T0WEH/FSP12-TYPEC, KIT/imou-IPC-B7C-5T0WEH/FSP12-TYPEC, IPC-B7C-5M0WEH-V2-imou, IPC-B7C-3M0WEH-V2-imou, imou-KIT/2-IPC-B7C-5M0WEH-V2, imou-KIT/2-IPC-B7C-3M0WEH-V2, IPC-B7C-3M0WEH/FSP12-TYPEC, IPC-B7C-5M0WEH/FSP12-TYPEC, imou-KIT/2-IPC-B7C-3M0WEH-V2, IPC-B7C-3M0WEH/FSP14, IPC-B7C-5M0WEH/FSP14, KIT/2-IPC-B7C-3M0WEH/FSP14, KIT/2-IPC-B7C-5M0WEH/FSP14, imou-IPC-B7CP-5B0S1/FSP14, imou-IPC-B7CN-5B0S1/FSP14, imou-IPC-B7CP-3B0S1/FSP14, imou-IPC-B7CN-3B0S1/FSP14, imou-KIT/2-IPC-B7CP-5B0S1/FSP14, imou-KIT/2-IPC-B7CP-3B0S1/FSP14, IPC-B7CP-5B0S1/FSP14, IPC-B7CN-5B0S1/FSP14, IPC-B7CP-3B0S1/FSP14, IPC-B7CN-3B0S1/FSP14, KIT/2-IPC-B7CP-5B0S1/FSP14, KIT/2-IPC-B7CP-3B0S1/FSP14
Reference RF report #	6128625078703

According to subpart 15.247(i) and subpart §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1,500	/	/	f/1500	30
1,500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4 \pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data: Dipole antenna

Maximum peak output power at antenna input terminal (dBm):	22.66
Maximum peak output power at antenna input terminal (mW):	184.50
Output power tune-up tolerance (dB)	± 1.0
Maximum tune-up conducted power(dBm):	23.66
Maximum tune-up conducted power(mW):	232.27
Prediction distance (cm):	20
Antenna Gain, typical (dBi):	1.8
Maximum Antenna Gain (numeric):	1.5136
The worst case is power density at predication frequency at 20 cm (mW/cm ²):	0.06994
MPE limit for general population exposure at prediction frequency (mW/cm ²):	1.00

Note: The maximum tune-up conducted power (23.66 dBm) was declared by the manufacturer.

The max power density 0.06994 (mW/cm²) < 1 (mW/cm²)

Result: Compliant



- TÜV SÜD Products Testing (Shanghai) Co., Ltd.

FCC-Registration No.: 820234 Designation Number: CN1183

Reviewed by:

Prepared by:

A handwritten signature in blue ink, appearing to read 'Hui Tong', with a stylized flourish at the end.



A handwritten signature in blue ink, appearing to read 'Wenqiang LU', with a stylized flourish at the end.

Hui TONG

Wenqiang LU

EMC Section Manager

EMC Project Engineer

Date: 2026-09-01

Date: 2026-09-01

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