



Maximum Permissible Exposure Evaluation

FCC ID: 2BM2I-LC2517

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) Radiation as specified in §1.1307(b).

EUT Specification

Product Name:	Smart Camera
Trade Mark:	/
Model/Type Reference:	LC2517
Listed Model(s):	/
Model Differences:	/
Frequency Band (Operating)	LTE Band 2: UL: 1850.7MHz~1909.3MHz, DL: 1930.7MHz~1989.3MHz LTE Band 4: UL: 1710.7MHz~1754.3MHz, DL: 2110.7MHz~2154.3MHz LTE Band 5: UL: 824.7MHz~848.3MHz, DL: 869.7MHz~893.3MHz LTE Band 12: UL: 699.7MHz~715.3MHz, DL: 729.7MHz~745.3MHz LTE Band 13: UL: 779.5MHz~784.5MHz, DL: 748.5MHz~751.0MHz LTE Band 66: UL: 1710.7MHz~1779.3MHz, DL: 2110.7MHz~2179.3MHz
Device Category	☐ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☒ Fixed (>20cm separation) ☐ Others ____
Exposure Classification	☐ Occupational/Controlled exposure (S=5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna Diversity	☒ Single antenna ☐ Multiple antennas ☐ TX diversity ☐ RX diversity ☐ TX/RX diversity
Antenna Gain (Max)	Band 2: 1.47dBi Max Band 4: 1.47dBi Max Band 5: -4.54dBi Max Band 12: -4.54dBi Max Band 13: -4.54dBi Max Band 66: 1.47dBi Max
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation

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**Limits for Maximum Permissible Exposure (MPE)**

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
300-1500	--	--	F/300	<6
1500-100000	--	--	5	<6
(B) Limits for General Population/Uncontrolled Exposure				
300-1500	--	--	F/1500	<30
1500-100000	--	--	1	<30

Note: F = MHz

Calculation MethodFriis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where:

Pd= Power density in mW/cm²P_{out}= output power to antenna in mW

G= gain of antenna in linear scale

Pi= 3.1416

R= distance between observation point and center of the radiator in cm

Pd limit of MPE is 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

Measurement Result

Mode	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
LTE Band 2	1860	1.47	23.93	0.0690	1
LTE Band 4	1747.5	1.47	25.16	0.0916	1
LTE Band 5	824.7	-4.54	24.63	0.0203	0.55
LTE Band 12	707.5	-4.54	24.45	0.0195	0.47
LTE Band 13	779.5	-4.54	24.14	0.0181	0.52
LTE Band 66	1745	1.47	25.02	0.0887	1

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****

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