

MAXIMUM PERMISSIBLE EXPOSURE

KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

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

FCC ID	2BEWXSC399				
EUT	Smart Camera				
Frequency band (Operating)	BT: 2.402GHz ~ 2.480GHz				
	🖂 WLAN: 2.412GHz ~ 2.462GHz				
	🗌 RLAN: 5.180GHz ~ 5.240GHz				
	🗌 RLAN: 5.260GHz ~ 5.320GHz				
	□ RLAN: 5.500GHz ~ 5.700GHz				
	□ RLAN: 5.745GHz ~ 5.825GHz				
	☐ Others:				
Device category	Portable (<20cm separation)				
	⊠ Mobile (>20cm separation)				
	□ Others				
Exposure classification	Occupational/Controlled exposure				
	General Population/Uncontrolled exposure				
Antenna diversity	⊠ Single antenna				
	☐ Multiple antennas				
	Tx diversity				
	□ Rx diversity				
	Tx/Rx diversity				
Antenna gain (Max)	2.24 dBi				
Evaluation applied	MPE Evaluation				
	□ SAR Evaluation				

Limits for Maximum Permissible Exposure(MPE)

Frequency	Electric Field Magnetic Field Power		Power	Average Time							
Range(MHz)	Strength(V/m)	Strength(A/m)	Density(mW/cm ²)								
(A) Limits for Occupational/Control Exposures											
300-1500	300-1500		F/300								
1500-100000			5	6							
(B) Limits for General Population/Uncontrol Exposures											
300-1500	300-1500		F/1500	30							
1500-100000			1	30							

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Friis transmission formula: Pd=(Pout*G)\(4*pi*R2)

Where

Pd= Power density in mW/cm² Pout=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 the limit of MPE. 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

Operating Mode	Maximum output power (dBm)	Tune up tolerance (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm ²)	Power density Limits (mW/cm ²)
WiFi 2.4G	16.51	16.51 ±1	17.51	2.24	0.0188	1
BLE	-0.78	-0.78 ±1	0.22	2.24	0.0004	1

Note: BT&WiFi cannot support simultaneous transmission.

Result: No Standalone SAR test is required.

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