Maximum Permissible Exposure Evaluation

FCC ID: 2AEK8-GOFUTUREIPC02

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:	IP Camera
Trade Mark:	/
Model/Type reference:	IPC02
Listed Model(s):	IPC01, PC03, IPC04, IPC05, IPC06, IPC07, IPC08, IPC09, IPC10, IPC11, IPC12, IPC13, IPC14, IPC15, IPC16, IPC17, IPC18, IPC19, IPC20, IPC21, IPC22, IPC23, IPC24, IPC25, IPC26, IPC27, IPC28, IPC29, IPC30, IPC31, IPC32, IPC33, IPC34, IPC35, IPC36, IPC37, IPC38, IPC39, IPC40, IPC41, IPC42, IPC43, IPC44, IPC45, IPC46, IPC47, IPC48, IPC49, IPC50, IPC51, IPC52, IPC53, IPC54, IPC55, IPC56, IPC57, IPC58, IPC59, IPC60, IPC61, IPC62, IPC63, IPC64, IPC65, IPC66, IPC67, IPC68, IPC69, IPC70, IPC71, IPC72, IPC73, IPC74, IPC75, IPC76, IPC77, IPC78, IPC79, IPC80, IPC81, IPC82, IPC83, IPC84, IPC85, IPC86, IPC87, IPC88, IPC89, IPC90, IPC91, IPC92, IPC93, IPC94, IPC95, IPC96, IPC97, IPC98, IPC99, IPC100, SC01, SC02, SC03, SC04, SC05, SC06, SC07, SC08, SC09, SC10, SC11, SC12, SC13, SC14, SC15, SC16, SC17, SC18, SC19, SC20, SC21, SC22, SC23, SC24, SC25, SC26, SC27, SC28, SC29, SC30, SC31, SC32, SC33, SC34, SC35, SC36, SC37, SC38, SC39, SC40, SC41, SC42, SC43, SC44, SC45, SC46, SC47, SC48, SC49, SC50, SC51, SC52, SC53, SC54, SC55, SC56, SC57, SC58, SC59, SC60, SC61, SC62, SC63, SC64, SC65, SC66, SC67, SC68, SC69, SC70, SC71, SC72, SC73, SC74, SC75, SC76, SC77, SC78, SC79, SC80, SC81, SC82, SC83, SC84, SC85, SC86, SC87, SC88, SC89, SC90, SC91, SC92, SC93, SC94, SC95, SC96, SC97, SC98, SC99, SC100
Frequency band (Operating)	WLAN: 2.412GHz ~ 2.462GHz
Device category	☐Portable (<5mm separation) ☐Mobile (>20cm separation) ☒Fixed (>20cm separation) ☐Others ___
Exposure classification	☐Occupational/Controlled exposure (S=5mW/cm2) ☒General Population/Uncontrolled exposure (S=1mW/cm2)
Antenna diversity	☒Single antenna ☐Multiple antenna ☐Tx diversity ☐Rx diversity ☐Tx/Rx diversity
Antenna gain (Max)	3.0dBi
Evaluation applied	☒MPE Evaluation ☐SAR Evaluation

Limits for Maximum Permissible Exposure (MPE)

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

Friis transmission formula: $Pd=(Pout*G)\backslash(4*pi*R^2)$

Where

Pd= Power density in mW/cm^2

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 1mW/cm^2. 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

Test Mode	Frequency (MHz)	Max. Measured Power (dBm)	Max. Tune up Power (dBm)	Antenna Gain (dBi)	Power density at 20cm (mW/cm^2)	Power density Limits (mW/cm^2)
802.11 B	2412-2462	14.11	14.50	3.0	0.0112	1

Note:

1. Calculate by Worst-case mode.

2. Max. Tune Up Power by Manufacturer's Declaration, and Max. Tune Up Power is used to calculate.

3. For a more detailed features description, please refer to the RF Test Report.

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