

FCC RF EXPOSURE REPORT


FCC ID: P27OC835V3

Project No. : 1705042
Equipment : Waterproof HD IP Camera
Model : OC835-V3
Series Model : N/A
Applicant : Sercmm Corporation
Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei,
Taiwan 115

According: : FCC Guidelines for Human Exposure IEEE
C95.1

Technical Manager

:



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B T L I N C .

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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	Sercomm	OC835V3	N/A	IPEX	3.4	NA
2	Sercomm	OC835V3	N/A	IPEX	3.7	NA

Operating Mode TX Mode	1TX	2TX
	802.11b	V (ANT 1)
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1+ANT 2)
802.11n(40MHz)	-	V (ANT 1+ANT 2)

TEST RESULTS

Test Mode : TX B Mode /CH01, CH06, CH11

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.70	2.3442	20.58	114.2878	0.05332740	1	Complies
3.70	2.3442	23.19	208.4491	0.09726361	1	Complies
3.70	2.3442	21.01	126.1828	0.05887764	1	Complies

Test Mode : TX G Mode /CH01, CH06, CH11

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.70	2.3442	25.83	382.8247	0.17862834	1	Complies
3.70	2.3442	26.61	458.1419	0.21377178	1	Complies
3.70	2.3442	26.25	421.6965	0.19676614	1	Complies

Test Mode : TX N-20M Mode_ Total /CH01, CH06, CH11

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.70	2.3442	25.70	371.5352	0.17336059	1	Complies
3.70	2.3442	28.46	701.4553	0.32730329	1	Complies
3.70	2.3442	27.62	578.0960	0.26974312	1	Complies

Test Mode : TX N-40M Mode_ Total /CH03, CH06, CH09

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.70	2.3442	22.11	162.5549	0.07584909	1	Complies
3.70	2.3442	26.65	462.3810	0.21574978	1	Complies
3.70	2.3442	21.84	152.7566	0.07127716	1	Complies