

FCC RF EXPOSURE REPORT

FCC ID: 2AIQB-L16

Project No. : 1703213
Equipment : Camera
Test Model : L16
Series Model : N/A
Applicant : Light Labs Inc.
Address : 636 Ramona St., Palo Alto, CA 94301, United States

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

B T L I N C .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

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
Bluetooth EDR and LE:

Ant.	Brand	Test Model	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	WIFI Main	PIFA	i-pex 4L	-3.5	NA
2	N/A	WIFI Aux	PIFA	i-pex 4L	-3.3	NA

TEST RESULTS

Bluetooth EDR:

EUT:	Camera	Model Name :	L16
Test Mode :	TX Mode _1Mbps		

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
-3.50	0.4467	7.74	5.9429	0.00052838	1	Complies
-3.50	0.4467	9.28	8.4723	0.00075327	1	Complies
-3.50	0.4467	7.77	5.9841	0.00053205	1	Complies

EUT:	Camera	Model Name :	L16
Test Mode :	TX Mode _3Mbps		

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
-3.50	0.4467	7.07	5.0933	0.00045285	1	Complies
-3.50	0.4467	8.66	7.3451	0.00065306	1	Complies
-3.50	0.4467	7.14	5.1761	0.00046020	1	Complies

Bluetooth LE:

EUT:	Camera	Model Name :	L16
Test Mode :	CH00, CH19 , CH39		

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
-3.50	0.4467	0.28	1.0666	0.00009483	1	Complies
-3.50	0.4467	1.85	1.5311	0.00013613	1	Complies
-3.50	0.4467	0.63	1.1561	0.00010279	1	Complies

Note:

(1) The calculated distance is 20 cm.