

FCC RF EXPOSURE REPORT

FCC ID: 2AFZI-AVI1010B

Project No. : 1711C205
Equipment : Avi-on 1010
Model : AVI1010-B, AVI1010UFL-B, AVI1010NA-B
Applicant : Avi-on Labs, Inc.
HMN : Eaton Outdoor Sensor Daughter Card -
Aurolite Motion Head;
Eaton Outdoor Sensor Daughter Card - TCL
Floodlight
Address : Room 1302, Block A, Building 4, Tianan Cyber
Park, Huangge Road, Longgang District,
Shenzhen, China
According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

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

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Wire Monopole	N/A	3.18	N/A
2	N/A	N/A	Wire Monopole	N/A	2.61	N/A
3	Laird TECHNOLOGIES	N/A	Dipole	N/A	5.50	N/A
4	N/A	N/A	PIFA	N/A	1.42	N/A

Remark:

Host Eaton Outdoor Sensor Daughter Card - Aurolite Motion Head; Eaton Outdoor Sensor Daughter Card - TCL Floodlight only use antenna 4.

TEST RESULTS

EUT :	Avi-on 1010	Model Name :	AVI1010-B, AVI1010VIA-B
Temperature :	24 °C	Relative Humidity:	60 %
Test Voltage :	AC 120V/60Hz		

LE:

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
1.42	1.3868	9.72	9.3756	0.00259	1	Complies

Note: the calculated distance is 20 cm.