RF Exposure Evaluation

Test report

On Behalf of

Guangzhou Eagle Electronic Technology Co.,Ltd

For

Vehicle-mounted camera system

Model No.: EA1088-W, EA1028, EA1028-H, EA1085, EA1085-H, EA1080,EA1080-H, EA1087, EA1087-H, EA1088, EA1088-H, EA9890SX-20K, EA9890SX-20K-W, EA9890SX-20R, EA9890SX-20R-W, EA9890SX-40, EA9890SX-40-W

FCC ID: 2AWGA-EA1088W

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Date of Test:	**Apr. 07, 2020 -- Apr. 21, 2020**
Date of Report:	**Apr. 21, 2020**

1 General Description of EUT

Product Name:	Vehicle-mounted camera system
Model/Type reference:	EA1088-W
Serial Model:	EA1028, EA1028-H, EA1085, EA1085-H, EA1080,EA1080-H, EA1087, EA1087-H, EA1088, EA1088-H, EA9890SX-20K, EA9890SX-20K-W, EA9890SX-20R, EA9890SX-20R-W, EA9890SX-40, EA9890SX-40-W
Trade Mark:	FLY EAGLE
FCC ID	2AWGA-EA1088W
Hardware Version:	V1.3
Software Version:	V1.0
Operation frequency:	2405MHz to 2472MHz
Channel separation:	⩾3MHz
Channel number:	20
Modulation Technology:	GFSK
Antenna Type:	Glue stick antenna
Antenna Gain:	2dBi
Power Supply:	DC12V battery/others

Note : 1. For more detailed features description, please refer to the Manual.
2.There are multiple models, please refer to Differences declaration for specific differences

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
4.3.1. Standalone SAR test exclusion considerations
Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [√f(GHz)] ≤ **3.0** for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,

Where f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearset mW and mm before calcution
The results is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3 EUT RF Exposure

For 2.4G

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2405MHz)	7.031	7±1	8	6.310	1.957	3.0
Middle (2440MHz)	6.536	7±1	8	6.310	1.971	
Highest (2472MHz)	6.565	7±1	8	6.310	1.984	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK2004100594-E