RF Exposure Evaluation Report

Product	:	Wireless Digital Video Monitoring System
Trade mark	:	Infant Optics
Model/Type reference	:	DXR-8
Serial Number	:	N/A
Report Number	:	EED32K00204102
FCC ID	:	2AAAM-DXR-8BU-2
Date of Issue	:	Aug. 29, 2018
Test Standards	:	47 CFR Part 1.1307 47 CFR Part 1.1310 KDB447498D01v06
Test result	:	PASS

Prepared for:

STANDARD MERIT INDUSTRIAL LIMITED
2/A Harrison Court Stage 6, 10 Man Wan Road, Kowloon, Hong Kong

Prepared by:

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CENTRE TESTING INTERNATIONAL GROUP CO.,LTD. Report Seal

Date: Aug. 29, 2018

Check No.: 3336814271

2 Version

Version No.	Date	Description
00	Aug. 29, 2018	Original

3 Contents

4 General Information

4.1 Client Information

Applicant:	STANDARD MERIT INDUSTRIAL LIMITED
Address of Applicant:	2/A Harrison Court Stage 6, 10 Man Wan Road, Kowloon, Hong Kong
Manufacturer:	Foshan Shunde Alford Electronics Co., Ltd
Address of Manufacturer:	Xinjian Industrial Park, Daliang, Shunde, Foshan City, Guangdong Province, China
Factory:	Foshan Shunde Alford Electronics Co., Ltd
Address of Factory:	Xinjian Industrial Park, Daliang, Shunde, Foshan City, Guangdong Province, China

4.2 General Description of EUT

Product Name:	Wireless Digital Video Monitoring System
Model No.(EUT):	DXR-8
Trade Mark:	Infant Optics
EUT Supports Radios application	2410.875MHz ~2471.625MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2410.875MHz ~2471.625MHz	
Modulation Type:	GFSK	
Number of Channels:	19	
Antenna Type:	Permanent external connecter antenna	
Antenna Gain:	0dBi	
Power Supply:	AC Adapter 1	Model:BLJ06W059100P1-U Input:100-240V~50/60Hz,0.2A Output:5.9V⎓1A
	AC Adapter 2	Model:CS6D059100FU Input:100-240V~50/60Hz,0.2A Output:5.9V⎓1A
Conducted Peak Output Power:	12.979dBm	
	The Conducted Peak Output Power data refer to the report EED32K00204101	
Sample Received Date:	Aug. 01, 2018	
Sample tested Date:	Aug. 01, 2018 to Aug. 28, 2018	
The tested sample(s) and the sample information are provided by the client.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd
Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China
Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385
No tests were sub-contracted.
FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: 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 part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm^2)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*($900/f^2$)	6
30–300	61.4	0.163	1.0	6
300–1500	.....	.....	f/300	6
1500–100,000	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*($180/f^2$)	30
30–300	27.5	0.073	0.2	30
300–1500	.....	.....	f/1500	30
1500–100,000	.....	.....	1.0	30

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

5.1.3 EUT RF Exposure Evaluation

Antenna Gain: 2dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm^2)	Limit (mW/cm^2)	Result
Lowest	2410.875	12.979	0	12.979	0.0199	20	0.000004	1.0	Pass

Note: Refer to report No. EED32K00204101 for EUT test Max Conducted Peak Output Power value.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32K00204101 for EUT external and internal photos.

*** End of Report ***