

# RF Exposure Evaluation Report

**Product** : Wireless Digital Video Monitoring System  
**Trade mark** : N/A  
**Model/Type reference** : DXR-8 PRO, DXR8PPZ-A  
**Serial Number** : N/A  
**Report Number** : EED32M00082302  
**FCC ID** : 2AAAM-DXR8PPZ-ABU  
**Date of Issue** : Jul. 07, 2020  
**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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## 2 Version

Version No.	Date	Description
00	Jul. 07, 2020	Original

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## 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

### 4.2 General Description of EUT

Product Name:	Wireless Digital Video Monitoring System
Model No.(EUT):	DXR-8 PRO, DXR8PPZ-A
Test Model No.:	DXR-8 PRO
Trade Mark:	N/A
EUT Supports Radios application	2410MHz - 2477MHz

### 4.3 Product Specification subjective to this standard

Frequency Range:	2410MHz - 2477MHz	
Modulation Type:	GFSK	
Number of Channels:	20	
Test Power Grade:	Default	
Test Software of EUT:	Default	
Antenna Type:	Dipole Antenna	
Antenna Gain:	Antenna Gain : 0.00 dBi (Numeric gain: 1.00)	
Power Supply:	AC adapter 1	Model: BI12T-059100-BdU Input:100-240V~50/60Hz 0.5A Output: DC 5.9V--- 1A
	AC adapter 1	Model: BLJ05K059100P-U Input:100-240V~50/60Hz 0.2A Output: 5.9V--- 100mA
Max Conducted Peak Output Power:	14.474 dBm	
	The Max Conducted Peak Output Power data refer to the report EED32M00082301	
Sample Received Date:	Apr.13, 2020	
Sample tested Date:	Apr.13, 2020 to May 22, 2020	
<p>The tested sample(s) and the sample information are provided by the client.</p> <p>Model No.: DXR-8 PRO, DXR8PPZ-A</p> <p>Only the model DXR-8 PRO was tested, DXR-8 PRO is the system model of the product that of which consist of one camera unit and one monitor unit with the model DXRBPPZ-A. The model DXR-8 PRO is represent the coverage of one Camera unit and one Monitor with the Model DXR8PPZ - A. For DXR8PPZ-A is the model represent the individual Camera/Monitor unit only</p>		

#### **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 <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3–3.0 .....	614	1.63	*(100)	6
3.0–30 .....	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30–300 .....	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3–1.34 .....	614	1.63	*(100)	30
1.34–30 .....	824/f	2.19/f	*(180/f <sup>2</sup> )	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

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: 0dBi

Channel	Frequency (MHz)	Max Conducted Peak Output Power(mW)	Gain (num.)	R (cm)	S (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Result
Middle	2441.5	28.016	1	20	0.0056	1.0	Pass

## PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M00082301 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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