

RF Exposure Report

Report No.: SA171114D24

FCC ID: RFHAFOBOT

Test Model: AfoBot

Received Date: Nov. 16, 2017

Test Date: Dec. 4 ~ 19, 2017

Issued Date: Jan. 10, 2018

Applicant: IEI Integration Corp.

Address: No.29, Zhongxing Rd., Xizhi Dist., New Taipei City 221, Taiwan, R.O.C.

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C.)





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Release Control Record

Issue No.	Description	Date Issued
SA171114D24	Original release.	Jan. 10, 2018



1 Certificate of Conformity

Product: Smart Video Device

Brand: iEi,QNAP

Test Model: AfoBot

Sample Status: Engineering sample

Applicant: IEI Integration Corp.

Test Date: Dec. 4 ~ 19, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by: ______ Annie Chang ____, Date: _____ Jan. 10, 2018

Annie Chang / Senior Specialist

Approved by : , **Date:** Jan. 10, 2018

Rex Lai / Associate Technical Manager



2 RF Exposure

2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)				
Limits For General Population / Uncontrolled Exposure								
300-1500			F/1500	30				
1500-100,000			1.0	30				

F = Frequency in MHz

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

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2.4 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm²)
2412-2462 WLAN	24.38	5.01	20	0.1729	1
5180-5240 WLAN	14.95	5.01	20	0.0197	1
5260-5320 WLAN	14.82	5.01	20	0.0191	1
5500-5700 WLAN	14.90	5.01	20	0.0195	1
5745-5825 WLAN	15.80	5.01	20	0.0240	1
2402-2480 Bluetooth EDR	-3.79	2	20	0.0001	1
2402-2480 Bluetooth LE	6.92	2	20	0.0016	1

NOTE:

2.4GHz Directional gain = 2dBi + 10log(2) = 5.01dBi 5.0GHz Directional gain = 2dBi + 10log(2) = 5.01dBi

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