

# **RF Exposure Report**

Report No.: SA171017E05A

FCC ID: 2ABC8-PP300V50SE

Test Model: DT8050A-SN

Received Date: Dec. 26, 2018

Test Date: Jan. 11, 2019

**Issued Date:** Mar. 27, 2019

Applicant: Honeywell Security Sensor CoE

Address: 2 Corporate Center Dr.Melville New York 11747 United States

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

Hsin Chu Laboratory

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Taiwan R.O.C.

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,

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FCC Registration / Designation Number:

723255 / TW2022

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### **Release Control Record**

Issue No.	Description	Date Issued
SA171017E05A	Original release.	Mar. 27, 2019

Page No. 3 / 6 Report Format Version: 6.1.1

Report No.: SA171017E05A Reference No.: 181226E02



#### 1 Certificate of Conformity

Product: Infrared microwave sensor

Brand: Honeywell

Test Model: DT8050A-SN

Sample Status: ENGINEERING SAMPLE

Applicant: Honeywell Security Sensor CoE

Test Date: Jan. 11, 2019

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: , Date: Mar. 27, 2019

Cindy Hsin / Specialist

**Approved by :** , **Date:** Mar. 27, 2019

May Chen / 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/cm²)	Average Time (minutes)					
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 <sup>2</sup> )*	30					
30-300	27.5	0.073	0.2	30					
300-1500			f/1500	30					
1500-100,000			1.0	30					

f = Frequency in MHz; \*Plane-wave equivalent power density

#### 2.2 MPE Calculation Formula

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

where

Pd = power density in mW/cm<sup>2</sup>

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 Antenna Gain

Integral PCB antenna with 7dBi gain

### 2.5 Calculation Result

Frequency (GHz)	Field Strength of Fundamental (dBuV/m)	Pout EIRP (dBm)	Pout EIRP (mW)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
10.525	113.4	18.17	65.615	20	0.01305	1

Note: Pout EIRP (dBm) = Field Strength of Fundamental (dBuV/m) - 95.23 (dB)

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