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V01

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Report No.: 1812RSU031-U2

RF Exposure Evaluation Declaration

FCC ID: HD5-PX900A

APPLICANT: Honeywell International Inc

Honeywell Safety and Productivity Solutions

Application Type: Certification

Product: Printer

Model No.: PX940

Trademark: Honeywell

FCC Classification: Digital Transmission System (DTS)

Reviewed By:

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lac-MRA

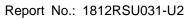


The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

FCC ID: HD5-PX900A Page Number: 1 of 7





Revision History

Report No.	Version	Description	Issue Date	Note
1812RSU031-U2	Rev. 01	Initial Report	2019-01-09	Valid

FCC ID: HD5-PX900A Page Number: 2 of 7



1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	Printer
Model No.:	PX940
Brand Name:	Honeywell
Bluetooth Version:	v4.2 single mode (Only BLE)

1.2. Antenna Description

Antenna Type	Manufacturer	Frequency Band (MHz)	Max Peak Antenna
			Gain (dBi)
Chip Antenna	TAIYO YUDEN	2402 ~ 2480	1.3

FCC ID: HD5-PX900A Page Number: 3 of 7



2. RF Exposure Evaluation

2.1. Limits

According to FCC 1.1310: 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 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Average Time
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	-		f/300	6
1500-100,000	1		5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500			f/1500	6
1500-100,000			1	30

f= Frequency in MHz

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

Pd is the limit of MPE, 1mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

FCC ID: HD5-PX900A Page Number: 4 of 7



2.2. Test Result of RF Exposure Evaluation

Product	Printer
Test Item	RF Exposure Evaluation

Antenna Gain: Refer to clause 1.2.

Test Mode	Frequency Band	Max Conducted	Power Density at	Limit
	(MHz)	Power	R = 20 cm	(mW/cm ²)
		(dBm)	(mW/cm ²)	
Bluetooth-LE	2402 ~ 2480	0.69	0.0003	1

CONCULISON:

The max Power Density at R $(20 \text{ cm}) = 0.0003 \text{mW/cm}^2 < 1 \text{mW/cm}^2$.

So the EUT complies with the requirement.

The End



Appendix A - Test Setup Photograph

Refer to "1812RSU031-UT" file.

FCC ID: HD5-PX900A Page Number: 6 of 7



Appendix B - EUT Photograph

Refer to "1812RSU031-UE" file.

FCC ID: HD5-PX900A Page Number: 7 of 7