

# RF MEASUREMENT REPORT

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**FCC ID:** HD5-CT4XVDWL  
**Applicant:** Honeywell International Inc  
Honeywell Safety and Productivity Solutions  
**Product:** Vehicle Dock  
**Model No.:** CT4X-VD-WL  
**Brand Name:** Honeywell  
**FCC Rule Part(s):** FCC Part 2.1091  
**Result:** Complies  
**Test Date:** 2024-03-22 ~ 2024-04-03

**Reviewed By:**

\_\_\_\_\_  
Jame Yuan

**Approved By:**

\_\_\_\_\_  
Robin Wu



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.

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### Revision History

Report No.	Version	Description	Issue Date	Note
2403RSU014-U3	V01	Initial Report	2024-04-07	Valid

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## CONTENTS

Description	Page
<b>1. General Information .....</b>	<b>4</b>
1.1. Applicant .....	4
1.2. Manufacturer .....	4
1.3. Testing Facility .....	4
1.4. Product Information.....	5
1.5. Radio Specification .....	5
<b>2. Measuring Instrument .....</b>	<b>6</b>
<b>3. Measurement Uncertainty.....</b>	<b>7</b>
<b>4. Test Result.....</b>	<b>8</b>
4.1. Test Limits .....	8
4.2. Test Mode.....	9
4.3. Test Setup .....	9
4.4. Test Environment Condition .....	9
4.5. Test Result .....	10

**1. General Information****1.1. Applicant**

Honeywell International Inc  
Honeywell Safety and Productivity Solutions  
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

**1.2. Manufacturer**

Honeywell International Inc  
Honeywell Safety and Productivity Solutions  
9680 Old Bailes Rd. Fort Mill, SC 29707 United States

**1.3. Testing Facility**

<input checked="" type="checkbox"/>	<b>Test Site – MRT Suzhou Laboratory</b>
	<b>Laboratory Location (Suzhou - Wuzhong)</b> D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	<b>Laboratory Location (Suzhou - SIP)</b> 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001
	VCCI: <input type="checkbox"/> R-20025 <input type="checkbox"/> G-20034 <input type="checkbox"/> C-20020 <input type="checkbox"/> T-20020 <input type="checkbox"/> R-20141 <input type="checkbox"/> G-20134 <input type="checkbox"/> C-20103 <input type="checkbox"/> T-20104
<input type="checkbox"/>	<b>Test Site – MRT Shenzhen Laboratory</b>
	<b>Laboratory Location (Shenzhen)</b> 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	<b>Laboratory Accreditations</b>
	A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
<input type="checkbox"/>	<b>Test Site – MRT Taiwan Laboratory</b>
	<b>Laboratory Location (Taiwan)</b> No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	<b>Laboratory Accreditations</b>
	TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

#### 1.4. Product Information

Product Name	Vehicle Dock
Model No.	CT4X-VD-WL
EUT Identification No.	20240307Sample#10
Brand Name	Honeywell
WPT Specification	144kHz
Antenna Information	Refer to Section 1.5
Power Voltage	12/24VDC
Operating Temperature	-20~50 °C
Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

#### 1.5. Radio Specification

Frequency Range	144kHz
Modulation	ASK
Antenna Type	Coil Antenna

## 2. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Broadband Field Meter	narda	NBM 550	MRTSUE06897	3 years	2026-10-26	SIP-AC1
B-Field Probe	narda	100 cm <sup>2</sup>	MRTSUE06919	3 years	2026-10-29	SIP-AC1
Exposure Level Tester	narda	ELT-400	MRTSUE06920	3 years	2026-10-29	SIP-AC1
H-Field Probe	narda	HF 3061	MRTSUE06921	3 years	2026-10-26	SIP-AC1
Thermohygrometer	testo	608-H1	MRTSUE06616	1 year	2024-10-28	SIP-AC1

### 3. Measurement Uncertainty

Magnetic Field Emissions (A/m)
1Hz-10Hz: 12.74%
10Hz-120kHz: 2.91%
120kHz-400kHz: 3.98%
Electric Field Emissions (V/m)
100kHz-6.5GHz: 39.42%

## 4. Test Result

### 4.1. Test Limits

#### §1.1310 Radiofrequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

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/ Control 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
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
<b>(B) Limits for General Population/ Uncontrolled Exposures</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
300-1,500	--	--	f/1500	30
1,500-100,000	--	--	1.0	30

f= Frequency in MHz

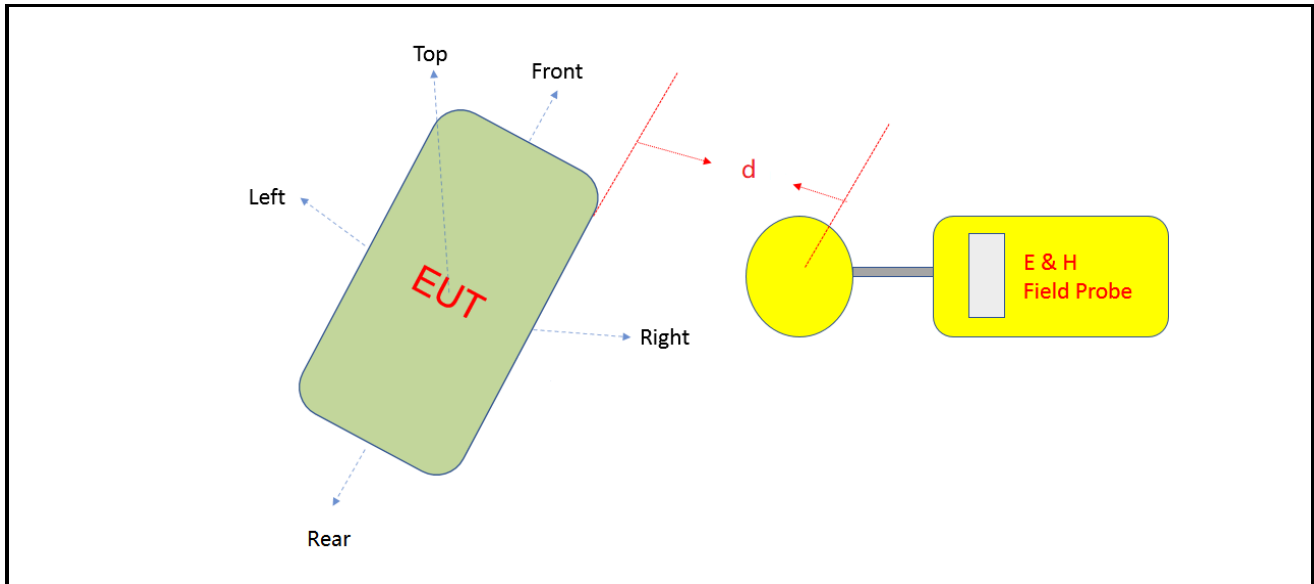
\* = Plane-wave equivalent power density



#### 4.2. Test Mode

Test Mode	
Mode 1:	Standby, Idle mode
Mode 2:	Charge the Load

#### 4.3. Test Setup



Notes:

1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
2.  $d = 5, 6, 8, 10, 20$  cm.

#### 4.4. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

**4.5. Test Result**

Test Site	SIP-AC1	Test Engineer	Chase Zhu
Test Date	2024-03-22 ~ 2024-04-03	Test Mode	Mode 1

Electric Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	Result
Front	20	0.27	614	Pass
Rear	20	0.22	614	Pass
Left	20	0.21	614	Pass
Right	20	0.20	614	Pass
Top	20	0.24	614	Pass
Magnetic Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	Result
Front	5(contact)	0.346	1.63	Pass
Rear	5(contact)	0.353	1.63	Pass
Left	5(contact)	0.343	1.63	Pass
Right	5(contact)	0.346	1.63	Pass
Top	5(contact)	0.502	1.63	Pass
Front	6	0.354	1.63	Pass
Rear	6	0.405	1.63	Pass
Left	6	0.349	1.63	Pass
Right	6	0.356	1.63	Pass
Top	6	0.332	1.63	Pass
Front	8	0.309	1.63	Pass
Rear	8	0.315	1.63	Pass
Left	8	0.299	1.63	Pass
Right	8	0.306	1.63	Pass
Top	8	0.304	1.63	Pass
Front	10	0.283	1.63	Pass
Rear	10	0.294	1.63	Pass
Left	10	0.278	1.63	Pass
Right	10	0.311	1.63	Pass
Top	10	0.268	1.63	Pass

Test Site	SIP-AC1	Test Engineer	Chase Zhu
Test Date	2024-03-22 ~ 2024-04-03	Test Mode	Mode 2

Electric Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	Result
Front	20	0.43	614	Pass
Rear	20	0.37	614	Pass
Left	20	0.41	614	Pass
Right	20	0.40	614	Pass
Top	20	0.36	614	Pass
Magnetic Field Emissions				
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	Result
Front	5(contact)	0.490	1.63	Pass
Rear	5(contact)	0.717	1.63	Pass
Left	5(contact)	0.471	1.63	Pass
Right	5(contact)	0.490	1.63	Pass
Top	5(contact)	0.502	1.63	Pass
Front	6	0.389	1.63	Pass
Rear	6	0.438	1.63	Pass
Left	6	0.410	1.63	Pass
Right	6	0.394	1.63	Pass
Top	6	0.390	1.63	Pass
Front	8	0.326	1.63	Pass
Rear	8	0.405	1.63	Pass
Left	8	0.330	1.63	Pass
Right	8	0.336	1.63	Pass
Top	8	0.334	1.63	Pass
Front	10	0.309	1.63	Pass
Rear	10	0.353	1.63	Pass
Left	10	0.299	1.63	Pass
Right	10	0.294	1.63	Pass
Top	10	0.306	1.63	Pass

————— The End —————