

## **MPE TEST REPORT**

Applicant Phillips Connect Technologies, LLC

FCC ID 2ASKH-CCP02

**Product** Cargo Camera

**Brand** PCT

**Model** 77-S267; 77-S263

**Report No.** R2312A1387-M1

Issue Date January 25, 2024

TA Technology (Shanghai) Co., Ltd. tested the above equipment in accordance with the requirements in **FCC 47 CFR Part 1 1.1310.** The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Mer Fong ying

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### 1 Test Laboratory

### 1.1 Notes of the Test Report

This report shall not be reproduced in full or partial, without the written approval of **TA Technology** (Shanghai) Co., Ltd. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein .Measurement Uncertainties were not taken into account and are published for informational purposes only. This report is written to support regulatory compliance of the applicable standards stated above.

### 1.2 Test Facility

### FCC (Designation number: CN1179, Test Firm Registration Number: 446626)

TA Technology (Shanghai) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform measurements.

### 1.3 Testing Location

Company: TA Technology (Shanghai) Co., Ltd.

Address: Building 3, No.145, Jintang Rd, Pudong Shanghai, P.R.China

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### 1.4 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25°C		
Relative humidity	Min. = 20%, Max. = 80%		
Ground system resistance	< 0.5 Ω		

Ambient noise is checked and found very low and in compliance with requirement of standards. Reflection of surrounding objects is minimized and in compliance with requirement of standards.

### 2 Description of Equipment Under Test

#### **Client Information**

Applicant	Phillips Connect Technologies, LLC		
Applicant address	5231 California Avenue, Suite 110 Irvine, CA 92617, USA		
Manufacturer	Phillips Connect Technologies, LLC		
Manufacturer address	5231 California Avenue, Suite 110 Irvine, CA 92617, USA		

### **General Technologies**

EUT Description					
Model	77-S267; 77-S263				
Lab internal SN	R2312A1387/S01				
Hardware Version	P6.1.5				
Software Version	Cargo Vision 23D				
Fraguenay	Band	TX (MHz)	RX (MHz)		
Frequency	Bluetooth LE 2400 ~ 2483.5		2400 ~ 2483.5		
Date of Testing	December 20, 2023 ~ January 3, 2024				
Date of Sample Received	December 14, 2023				

### Note:

- 1. The EUT is sent from the applicant to TA and the information of the EUT is declared by the applicant.
- 2. All indications of Pass/Fail in this report are opinions expressed by TA Technology (Shanghai) Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only.

### 3 Maximum Output Power and Antenna Gain

The numeric gain (G) of the antenna with a gain specified in dB is determined by Numeric gain (G)=10^(antenna gain/10)

Band	Maximum Output Power		Antenna Gain	Numeric Gain	
Dana	(dBm)	(mW)	(dBi)		
Bluetooth LE	4.80	3.02	1.38	1.37	

### 4 Test Result

According to section 1.1310 of FCC 47 CFR Part 1, limits for maximum permissible exposure (MPE) are as following.

TABLE 1 - LIMITS FOR MAXIMUN PERMISSIBLE EXPOSURE (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time
(MHz)	Strength	Strength		551 50
	(V/m)	(A/m)	(mVV/cm2)	(minutes)
	(A) Limits for Occu	upational/Controlle	d Exposures	
0.3-3.0	614	1.63	*(100)	6
3-30	1842/f	4.89/f	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
(B)	Limits for General	Population/Uncont	rolled Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f2)	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

Note1. Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational / controlled limits apply provided he or she is made aware of the potential for exposure.

Note2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

The maximum permissible exposure for 1500~100,000MHz is 1.0. So

Band	The Maximum Permissible Exposure (mW/cm²)			
Bluetooth LE	1.000			

<sup>\* =</sup> Plane-wave equivalent power density

#### **RF Exposure Calculations:**

The following information provides the minimum separation distance for the highest gain antenna provided. This calculation is based on the conducted power, considering maximum power and antenna gain. The formula shown in KDB 447498 D01 is used in the calculation.

Equation from KDB 447498 D01 General RF Exposure Guidance v06 (10/23/2015) is:

$$S = PG / 4\pi R^2$$

Where: S = power density (in appropriate units, e.g. mW/cm<sup>2</sup>)

P = Time-average maximum tune up procedure (in appropriate units, e.g., mW)

G = the numeric gain of the antenna

R = distance to the center of radiation of the antenna (20 cm = limit for MPE)

Band	Maximum Output Power (dBm)	Antenna Gain (dBi)	Maximum EIRP (dBm)	PG (mW)	Result (mW/cm <sup>2</sup> )	Limit Value (mW/cm²)
Bluetooth LE	4.80	1.38	6.18	4.15	0.001	1.000

Note: For transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.



### **ANNEX A: The EUT Appearance**

The EUT Appearance are submitted separately.

\*\*\*\*\*END OF REPORT \*\*\*\*\*

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