

# RF EXPOSURE REPORT

Report No.: DDT-B23070506-2E03

<b>Applicant</b>	:	Psync Labs, Inc.
<b>Address</b>	:	1825 Allison Way, San Jose, California 95132
<b>Equipment under Test</b>	:	Psync Camera Genie S
<b>Model No.</b>	:	PSYNCC3
<b>Trade Mark</b>	:	psync
<b>FCC ID</b>	:	2BB6YPSYNCC3
<b>Manufacturer</b>	:	Psync Labs, Inc.
<b>Address</b>	:	1825 Allison Way, San Jose, California 95132

**Issued By:** Tianjin Dongdian Testing Service Co., Ltd.

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## TEST REPORT DECLARE

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**Standard Used:** KDB447498 D01 General RF Exposure Guidance v06

**We Declare:**

The equipment described above is assessed by Tianjin Dongdian Testing Service Co., Ltd and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Tianjin Dongdian Testing Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these assessments.

**After evaluation, our opinion is that the equipment is in accordance with above standard.**

<b>Report No:</b>	DDT-B23070506-2E03		
<b>Date of Receipt:</b>	Jul. 14, 2023	<b>Date of Test:</b>	Jul. 14, 2023 ~ Jul. 27, 2023

**Prepared By:**

*Sunny Zhang*

**Sunny Zhang/Engineer**

**Approved By:**

*Aaron Zhang*

**Aaron Zhang/RF Manager**

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Tianjin Dongdian Testing Service Co., Ltd.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

## Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	Jul. 27, 2023	

## 1. General information

### 1.1. Description of Equipment

EUT* Name	: Psync Camera Genie S
Model Number	: PSYNCC3
EUT function description	: Please reference user manual of this device
Power Supply	: DC 5V by ac/dc adapter
Radio Specification	: IEEE 802.11b/g/n
Operation frequency	: IEEE 802.11b: 2412MHz-2462MHz IEEE 802.11g: 2412MHz-2462MHz IEEE 802.11n HT20: 2412MHz-2462MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)
Data rate	: IEEE 802.11b: 1, 2, 5.5, 11 Mbps IEEE 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps IEEE 802.11n HT20: MCS0-MCS7
Antenna Type	: FPC antenna with IPEX connector, maximum PK gain: 5.83dBi
Exposure category	: General population/uncontrolled environment
Device Type	: Mobile Device
Target power and tolerance	: BLE $17 \pm 2$ dBm, 2.4G WIFI $22 \pm 2$ dBm

EUT* Name	: Psync Cam3
Model Number	: PSYNCC3
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V by ac/dc adapter
Radio Specification	: Bluetooth V5.0
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK
Data Rate	: 1 Mbps
Antenna Type	: FPC antenna with IPEX connector, maximum PK gain: 5.83dBi

## 1.2. Assess laboratory

Tianjin Dongdian Testing Service Co., Ltd.

Address: Building D-1, No. 19, Weisi Road, Microelectronics Industrial Park Development Area, Tianjin, China.

Tel: +86-22-58038033, <http://www.ddttest.com>, Email: [ddt@dqddt.com](mailto:ddt@dqddt.com)

**NVLAP** (National Voluntary Laboratory Accreditation Program) CODE: 500036-0

**CNAS** (China National Accreditation Service for Conformity Assessment) CODE: L13402

**FCC** Designation Number: CN5004; FCC Test Firm Registration Number: 368676

**ISED** (Innovation, Science and Economic Development Canada) Company Number: 27768

Conformity Assessment Body Identifier: CN0125

**VCCI** Facility Registration Number: C-20089, T-20093, R-20125, G-20122

## 2. RF Exposure Evaluation

### 2.1. Requirement

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

### 2.2. Calculation method

$$E(\text{V/m}) = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } S(\text{mW/cm}^2) = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = Peak RF output power (mW)

**G** = EUT Antenna numeric gain (numeric)=

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

We can change the formula to:

$$S = \frac{30 \times P \times G}{377 \times d^2} \quad \text{or, } d = \sqrt{\frac{30 \times P \times G}{377 \times S}}$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2 m, as well as the gain of the used antenna, the RF power density can be obtained.

### 2.3. Estimation result

Worst Mode	Max. Tune Up power (dBm)	Output power (mW)	Antenna Gain (dBi)	Antenna Gain (linear)	MPE Values (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
BLE	19.00	79.433	5.83	3.83	0.03521	1
2.4G WiFi	24.00	251.189	5.83	3.83	0.11136	1

Note: The estimation distance is 20 cm

Conclusion: The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

**END OF REPORT**