

# TEST REPORT

Applicant Name : Shenzhen TCL Smart Home Technology Co., Ltd.  
Address : 7/F, TCL G1 Building. TCL International E City, No.1001 Zhongshan Yuan Road, Nanshan District, Shenzhen  
Report Number: 2504V06524E-RF  
FCC ID: 2BG9T-CAMB2PRO

## Test Standard (s)

47 CFR §1.1307& §2.1091

## Sample Description

Product Type: Integrated Solar Panel Smart Camera  
Model No.: Cam B2 Pro  
Trade Mark: TCL  
Date Received: 2025-07-01  
Report Date: 2025-07-24

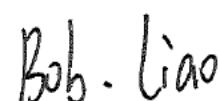
Test Result:	The EUT complied with the standards above.
--------------	--------------------------------------------

## Prepared and Checked By:



Roger Ling  
EMC Engineer

## Approved By:



Bob Liao  
EMC Engineer

Note: This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA, or any agency of the Federal Government. The information marked “#” is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included but no need marked.  
This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

## Shenzhen Accurate Technology Co., Ltd.

Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Tel: +86 755-26503290

Web: [www.atc-lab.com](http://www.atc-lab.com)

## TABLE OF CONTENTS

<b>DOCUMENT REVISION HISTORY</b> .....	<b>3</b>
<b>GENERAL INFORMATION</b> .....	<b>4</b>
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) .....	4
OBJECTIVE .....	4
TEST FACILITY .....	4
<b>RF EXPOSURE</b> .....	<b>5</b>
APPLICABLE STANDARD.....	5
RESULT .....	5
<b>EXHIBIT A-EUT PHOTOGRAPHS</b> .....	<b>7</b>

## DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
Rev.00	2504V06524E-RF	Original Report	2025-07-24

## GENERAL INFORMATION

### Product Description for Equipment under Test (EUT)

Product	Integrated Solar Panel Smart Camera
Tested Model	Cam B2 Pro
Voltage Range <sup>#</sup>	DC 5V from Type-C port DC 5V from solar panel DC 3.65V from rechargeable lithium-ion battery

Frequency Range	BLE 1M: 2402-2480MHz
	2.4G Wi-Fi: 2412-2462MHz, 2422-2452MHz
	5G Wi-Fi: 5150-5250MHz; 5250-5350MHz 5470-5725MHz; 5725-5850MHz
Antenna Specification <sup>#</sup>	Internal Antenna (It is provided by the applicant.)
	BLE 1M/2.4G Wi-Fi: 3.28dBi
	5G Wi-Fi: 5150-5250MHz: 2.22dBi, 5250-5350MHz: 4.08dBi
	5470-5725MHz: 4.78dBi
	5725-5850MHz: 4.16dBi
Sample Serial Number	35TN-3 (Assigned by ATC, Shenzhen)
Sample/EUT Status	Good condition

### Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts C and Part 2-Subpart J, Radiofrequency Radiation Exposure of the Federal Communication Commission rules.

The tests were performed in order to determine compliance with FCC §2.1091 rules.

### Test Facility

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the Floor 1, KuMaKe Building, Dongzhou Community, Guangming Street, Guangming District, Shenzhen, Guangdong, China.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01.

## RF EXPOSURE

### Applicable Standard

According to subpart 2.1091 systems operating under the provisions of this section shall be operated in a manner that ensures the public is not exposed to RF energy level in excess of the communication guidelines.

#### Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (Minutes)
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

### Result

#### Calculated Formulary:

Predication of MPE limit at a given distance

$$S = \frac{PG}{4\pi R^2}$$

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

P = power input to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

Mode	Frequency (MHz)	Antenna Gain <sup>#</sup>		Tune up conducted power <sup>#</sup>		Evaluation Distance (cm)	Power Density (mW/cm <sup>2</sup> )	MPE Limit (mW/cm <sup>2</sup> )
		(dBi)	(numeric)	(dBm)	(mW)			
BLE	2402-2480	3.28	2.13	5.5	3.55	20	0.002	1.0
2.4G Wi-Fi	2412-2462	3.28	2.13	23.5	223.87	20	0.095	1.0
5G Wi-Fi	5150-5250	2.22	1.67	14.9	30.90	20	0.010	1.0
	5250-5350	4.08	2.56	14.3	26.92	20	0.014	1.0
	5470-5725	4.78	3.01	14	25.12	20	0.015	1.0
	5725-5850	4.16	2.61	16.8	47.86	20	0.025	1.0

Note 1: The tune-up power and antenna gain are declared by the applicant.

Note 2: The BLE and WIFI can't transmission simultaneously.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 20cm from nearby persons.

**Result: Compliance**

## **EXHIBIT A-EUT PHOTOGRAPHS**

Please refer to the Annex: 2504V06524E-RF EUT EXTERNAL PHOTOGRAPHS and 2504V06524E-RF EUT INTERNAL PHOTOGRAPHS.

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