



**No. I16Z42399-SEM01**

**for**

**TCL Communication Ltd.**

**IP Camera**

**FCC ID: 2ACCJBC02**

**Hardware Version: V06**

**Software Version: 0081-01.19.74**

**Model Name: IC01**

**Issued Date: 2017-2-6**



**Note:**

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

**Test Laboratory:**

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## **REPORT HISTORY**

<b>Report Number</b>	<b>Revision</b>	<b>Issue Date</b>	<b>Description</b>
I16Z42399-SEM01	Rev.0	2017-1-26	Initial creation of test report
I16Z42399-SEM01	Rev.1	2017-2-6	Update the typo of frequency band in section 7.3 on page 8

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## **1. Test Laboratory**

### **1.1. Testing Location**

Company Name: CTTL(Shouxiang)  
Address: No. 51 Shouxiang Science Building, Xueyuan Road, Haidian District,  
Beijing, P. R. China100191  
Postal Code: 100191  
Telephone: 00861062304633  
Fax: 00861062304793

### **1.2. Testing Environment**

Normal Temperature: 15-35 °C  
Relative Humidity: 20-75%

### **1.3. Project data**

Project Leader: Lin Hao  
Testing Start Date: 2017-01-26  
Testing End Date: 2017-01-26

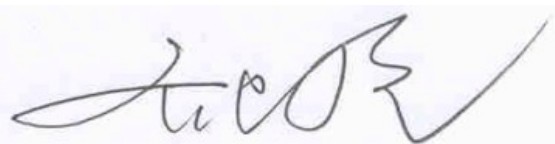
### **1.4. Signature**



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Lin Hao

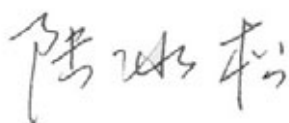
(Prepared this test report)



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Qi Dianyuan

(Reviewed this test report)



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Lu Bingsong

Deputy Director of the laboratory  
(Approved this test report)

## **2. Client Information**

### **2.1. Applicant Information**

Company Name: TCL Communication Ltd.  
Address /Post: 5F, C-Tower, No.232, Liangjing Road, Zhangjiang High-tech Park,  
Pudong, Shanghai, China  
City: Shanghai  
Contact: Liu Feng  
Email: liu.feng@tcl.com  
Telephone: 0755-33035419

### **2.2. Manufacturer Information**

Company Name: TCL Mobile Communication Co. Ltd. Huizhou.  
Address /Post: 70 Huifeng 4rd., ZhongKai High-Technology Development District,  
Huizhou, Guangdong, PRC. 516006  
City: Shanghai  
Contact: Liu Feng  
Email: liu.feng@tcl.com  
Telephone: 0755-33035419

### **3. Equipment Under Test (EUT) and Ancillary Equipment (AE)**

#### **3.1.About EUT**

Description	IP Camera
Model name	IC01
Operation mode	WiFi
Normal Voltage	5.0V

#### **3.2.Internal Identification of EUT**

UT01a / V06 0081-01.19.74

\*EUT ID: is used to identify the test sample in the lab internally.

#### **3.3.Internal Identification of AE**

<b>AE ID*</b>	<b>Description</b>	<b>SN</b>
AE1	Switching Adapter	---

\*AE ID: is used to identify the test sample in the lab internally.

## 4. Reference Documents

### 4.1. Reference Documents for testing

The following documents listed in this section are referred for testing.

**ANSI C95.1–1999:** IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

**447498 D01 General RF Exposure Guidance v06:** Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

**Canadian RSS-102** standard for uncontrolled environment requires the RF-exposure value in  $W/m^2$  unit, therefore the MPE limit value determined in  $mW/cm^2$  unit, should be multiplied by 10 to have the required unit. The MPE limits are the same like on FCC § 1.1301 at table 1.

## 5. RF Exposure Limit

### Limits for General Population/Uncontrolled Exposure

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

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

$$\text{Friis transmission formula: } P_d = \frac{P_{out} * G}{4 * \pi * r^2}$$

where

$P_d$  = power density ( $mW/cm^2$ )

$P_{out}$  = output power to antenna (mW)

G = gain of antenna (linear scale)

r = distance between antenna and observation point (cm)

## 6. Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

## 7. Test Results

### 7.1. The maximum antenna gain

The maximum antenna gain for each frequency band is:

WiFi2.4G: 2.0 dBi

### 7.2. The maximum rated power limits

Range of operating power:

WiFi2.4G:  $\leq 15$  dBm( $\pm 2$ dB)

### 7.3. Output Power Into Antenna & RF Exposure value at distance 20cm

The worst cases conducted output power for every frequency band is:

Frequency band	Maximum Rated Power (dBm)	Maximum Rated Power (mW)	Antenna gain	d (cm)	Calculation (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Calculation
WiFi2.4G	17	50.12	2.0	20	0.02	1.0	PASS

According above test result, and the device complies with the exposure requirements.

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