# RF EXPOSURE REPORT



Report No.: 15070358-FCC-H

Applicant	icant Shenzhen omimo Technology Co.,Ltd.			
Product Name	WiFi camera			
Model No.	S510;S520			
Serial No.				
Test Standard	FCC 2.109	1		
Test Date	April 08 to	June 04		
Issue Date	June 18, 20	)15		
Test Result	Test Result Pass Fail			
Equipment compli	ed with the s	specification		
Equipment did not	t comply with	the specification		
Winnie Zheng David Huang				
Winnie Zhang Test Engineer		David Huang Checked By		
Tool Engineer Checked by				
This test report may be reproduced in full only				
Test result presented in this test report is applicable to the tested sample only				

#### Issued by:

#### SIEMIC (SHENZHEN-CHINA) LABORATORIES

Zone A, Floor 1, Building 2 Wan Ye Long Technology Park
South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
Phone: +86 0755 2601 4629801 Email: China@siemic.com.cn



Test Report	15070358-FCC-H
Page	2 of 10

### **Laboratories Introduction**

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

#### **Accreditations for Conformity Assessment**

Country/Region	Scope			
USA	EMC, RF/Wireless, SAR, Telecom			
Canada	EMC, RF/Wireless, SAR, Telecom			
Taiwan	EMC, RF, Telecom, SAR, Safety			
Hong Kong	RF/Wireless, SAR, Telecom			
Australia	EMC, RF, Telecom, SAR, Safety			
Korea	EMI, EMS, RF, SAR, Telecom, Safety			
Japan	EMI, RF/Wireless, SAR, Telecom			
Singapore	EMC, RF, SAR, Telecom			
Europe	EMC, RF, SAR, Telecom, Safety			



Test Report	15070358-FCC-H
Page	3 of 10

This page has been left blank intentionally.



Test Report	15070358-FCC-H
Page	4 of 10

## **CONTENTS**

1.	REPORT REVISION HISTORY	. 5
••		••
2.	CUSTOMER INFORMATION	5
3.	TEST SITE INFORMATION	.5
4	EQUIDMENT LINDED TEST (FUT) INFORMATION	,
4.	EQUIPMENT UNDER TEST (EUT) INFORMATION	.0
5.	FCC §2.1091 - MAXIMUM PERMISSIBLE EXPOSURE (MPE)	.8
6.1	APPLICABLE STANDARD	3.
6.2	TEST RESULT	٠,



Test Report	15070358-FCC-H
Page	5 of 10

## 1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070358-FCC-H	NONE	Original	June 18, 2015

## 2. Customer information

Applicant Name	Shenzhen omimo Technology Co.,Ltd.		
Applicant Add	Room1212, Chuangjian Building, No.6023, Shennan Boulevard, Futian District,		
	Shenzhen,China		
Manufacturer	Sharetronic Data Technology Co., Ltd.		
Manufacturer Add	Weiqiang Technology Park, Yinhe Industrial Estate, Qingxi Town, Dongguan, China		

## 3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES		
	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park		
Lab Address	South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong		
	China 518108		
FCC Test Site No.	718246		
IC Test Site No.	4842E-1		
Test Software	Labview of SIEMIC version 2.0		



Test Report	15070358-FCC-H
Page	6 of 10

## 4. Equipment under Test (EUT) Information

WiFi camera

Main Model: S510;S520

Serial Model:

Description of EUT:

Equipment Category: PCB

Antenna Gain: WIFI: 2.73 dBi

Adapte 1:

Model: TEKA006-0501000UKU

Input: AC 100-240V; 50/60Hz 0.15A Max

Output: DC 5.0V; 0.5A

Input Power:
Adapte 2:

Model: A31-3762-501000

Input: AC 100-240V; 50/60Hz 0.2A

Output: DC 5.0V; 1.0A

Trade Name : omimo

FCC ID: 2AE6WS510



Test Report	15070358-FCC-H
Page	7 of 10

Type of Modulation: 802.11b/g/n: DSSS, OFDM

RF Operating Frequency (ies): WIFI:802.11b/g/n(20M): 2412-2462 MHz

WIFI:802.11n(40M): 2422-2452 MHz

WIFI :802.11b/g/n(20M): 11CH Number of Channels:

WIFI:802.11n(40M): 7CH

GPRS/EGPRS Multi-slot class 8/10/12



Test Report	15070358-FCC-H
Page	8 of 10

#### 5. FCC §2.1091 - Maximum Permissible exposure (MPE)

#### 6.1 Applicable Standard

According to §1.1307(b)(1), systems operating under the provisions of this 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.

According to §1.1310 and §2.1091 RF exposure is calculated.

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/cm²)	Averaging Time (minutes)	
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	/	1	f/1500	30	
1500-100,000	/	1	1.0	30	

f = frequency in MHz

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



Test Report	15070358-FCC-H
Page	9 of 10

#### 6.2 Test Result

Туре	Test mode	СН	Freq (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)
802.11b  802.11g  Output power  802.11n (20M)  802.11n (40M)	802.11b	Low	2412	10.32	10.0±1
		Mid	2437	11.30	11.0±1
		High	2462	11.15	11.0±1
	802.11g	Low	2412	13.19	13.0±1
		Mid	2437	13.55	13.0±1
		High	2462	12.44	12.0±1
		Low	2412	12.21	12.0±1
		Mid	2437	12.56	12.0±1
		High	2462	11.78	11.0±1
		Low	2422	7.83	7.0±1
		Mid	2437	8.22	8.0±1
	( <del>4</del> 0IVI)	High	2452	8.55	8.0±1

Predication of MPE limit at a given distance

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

Where: 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)

For the antenna manufacturer provide only used limited to ERP/EIRP or radiated spurious emission test. The MPE evaluation as below:

Maximum output power at antenna input terminal: 14.00dBm)

Maximum output power at antenna input terminal: 25.19(mW)



Test Report	15070358-FCC-H
Page	10 of 10

Prediction distance: >20 (cm)

Predication frequency: 2437 (MHz) High frequency

Antenna Gain (typical): 2.73 (dBi)

The worst case is power density at predication frequency at 20 cm: 0.009(mW/cm²)

MPE limit for general population exposure at prediction frequency: 1.0 (mW/cm²)

 $0.009(mW/cm^2) < 1.0 (mW/cm^2)$ 

Result: Pass