



# **RADIO TEST REPORT**

Report No: STS2205100H01

Issued for

Ampula Inc.

3277 S White Road, #880, San Jose, California, United States

L A B

Product Name:	Open Sesame Garage Camera
Brand Name:	Ampoza
Model Name:	C250
Series Model:	N/A
FCC ID:	2A52ZC250
Test Standard:	FCC 47CFR §2.1091

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# **Test Report Certification**

Applicant's Name	Ampula Inc.				
Address:	3277 S White Road, #880, San Jose, California, United States				
Manufacturer's Name	Ampula Inc.				
Address:	3277 S White Road, #880, San Jose, California, United States				
<b>Product Description</b>					
Product Name:	Open Sesame Garage Camera				
Brand Name:	Ampoza				
Model Name:	C250				
Series Model	N/A				
Standards	FCC 47CFR §2.1091 447498 D04 Interim General RF Exposure Guidance v01				
	except in full, without the written approval of STS, this document ersonal only, and shall be noted in the revision of the document.				
Date of Test	:				
Date of receipt of test item	: 13 May 2022				
Date (s) of performance of tests	: 13 May 2022 ~ 08 June 2022				
Date of Issue: 08 June 2022 Test Result: Pass					
	Pass				
Testing Engineer	Chris cher				
Technical Manage	(Chris Chen)  Sean She APPROVAL &				
Authorized Signate	ory: (Sean she)				
	, v				

(Bovey Yang)





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# **Revision History**

Rev.	Issue Date	Issue Date Report No.		Contents		
00	08 June 2022	08 June 2022 STS2205100H01		Initial Issue		





# 1. GENERAL INFORMATION

### 1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Open Sesame Garage Camera				
Brand Name	Ampoza				
Model Name	C250	C250			
Series Model	N/A	N/A			
Model Difference	N/A	N/A			
Product Description	The EUT is Open Operation Frequency:  Modulation Type:  Antenna gain: Antenna Designation:	Sesame Garage Camera.  802.11b/g/n 20: 2412~2462 MHz  802.11n(40MHz):2422~2452MHz  802.11b(DSSS):CCK,DQPSK,DBPSK  802.11g(OFDM):BPSK,QPSK,16-QAM,64-QA M  802.11n(OFDM):BPSK,QPSK,16-QAM,64-QA M  2dBi  PIFA			
Adapter	Input: 100~240V 50/60Hz 0.25A Max Output: 5V === 1000mA				
Hardware Version	V1.2				
Software Version	V1.0.9				



#### 1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add.: A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ,

Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01





## 2. FCC 47CFR §2.1091 REQUIREMENT

#### 2.1 TEST STANDARDS

Follow the maximum permissible exposure (MPE) limits specified in 447498 D04 Interim General Radio Frequency Exposure Guidelines v01. The gain of the antenna used in the product was extracted from the supplied antenna data sheet and the maximum total power input to the antenna was also measured. Calculate the distance from the product to the MPE limit by the formula.

#### 2.2 LIMIT

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \ cm} (d/20 \ \text{cm})^x & d \le 20 \ \text{cm} \\ ERP_{20 \ cm} & 20 \ \text{cm} < d \le 40 \ \text{cm} \end{cases}$$

Where

$$x = -\log_{10}\left(\frac{60}{ERP_{20~cm}\sqrt{f}}\right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20\ cm}\ (\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases}$$

d = the separation distance (cm);



(C) Or using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	1,920 R <sup>2</sup> .
1.34-30	3,450 R <sup>2</sup> /f <sup>2</sup> .
30-300	3.83 R <sup>2</sup> .
300-1,500	0.0128 R <sup>2</sup> f.
1,500-100,000	19.2R <sup>2</sup> .



For multiple RF sources: Multiple RF sources are exempt if:

- (A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of Part 1.1307. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- (B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(B) of Part 1.1307 for Pth, including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph (b)(3)(i)(C) of Part 1.1307 for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

Pi = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

Pth,i = the exemption threshold power (Pth) according to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERPj = the ERP of fixed, mobile, or portable RF source j.

ERPth, j = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least  $\lambda/2\pi$  according to the applicable formula of paragraph (b)(3)(i)(C) of Part 1.1307.

Evaluatedk = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limitk = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310.





# 2.3 TEST RESULT

# Turn up

Mode	Detector	Turn up Power
2.4G Wi-Fi	AV	12±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Turn up power (dBm)	ANT Gain ( dBi)	Max EIRP (dBm)	Max EIRP (mW)	Limit (mW)	Ratio	Result
2.4G Wi-Fi	2.437	20	13	2	15	31.62	3060	0.010	Pass

Note: The Maxinum power is less than the limit, complies with the exemption requirements.

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