



TEST REPORT EN IEC 62311:2020

Report Reference No.: **HK2107262542-2EH**

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Date of issue: 2021/07/30

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Applicant's name: Sunivision Technology Development Company Limited

Address: 3rd Floor, Building B, TaoYuan Industrial Park, Nan An Cun,
XinTang, ZengCheng, Guangzhou, China

Test specification:

Standard: **EN IEC 62311:2020**

TRF Originator: Shenzhen HUAKE Testing Technology Co., Ltd.

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Equipment under Test: WIFI camera

Trade Mark: N/A

Model/Type reference: AP-9825B-2MP36TY

List Model: AP-9825B-2MP3612TY, AP-9504, AP-TY288-1MP-DP,
AP-TY288-2MP-DP, AP-TY288-1MP-DP-SG,
AP-TY288-2MP-DP-SG, AP-AKX7-2MP, AP-7410NM, AP-7810NM,
AP-S5-WIFI, AP-8204, AP-9204, AP-8208, AP-8504, AP-9208,
AP-9826-10-YCC-1MP, AP-9826-10-YCC-2MP

Hardware version: V2.0

Software version: V2.0

Ratings: DC 12V From Adapter

Result: **PASS**

**TEST REPORT**

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		Date of issue

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Listed Models : AP-9825B-2MP3612TY, AP-9504, AP-TY288-1MP-DP, AP-TY288-2MP-DP, AP-TY288-1MP-DP-SG, AP-TY288-2MP-DP-SG, AP-AKX7-2MP, AP-7410NM, AP-7810NM, AP-S5-WIFI, AP-8204, AP-9204, AP-8208, AP-8504, AP-9208, AP-9826-10-YCC-1MP, AP-9826-10-YCC-2MP

Applicant : Sunivision Technology Development Company Limited

Address : 3rd Floor, Building B, TaoYuan Industrial Park, Nan An Cun, XinTang, ZengCheng, Guangzhou, China

Manufacturer : Sunivision Technology Development Company Limited

Address : 3rd Floor, Building B, TaoYuan Industrial Park, Nan An Cun, XinTang, ZengCheng, Guangzhou, China



**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2021/07/30	Jason Zhou



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1. GENERAL INFORMATION

1.1 General Remarks

Date of receipt of test sample	:	2021/07/26
Testing commenced on	:	2021/07/26
Testing concluded on	:	2021/07/30

1.2 GENERAL DESCRIPTION OF EUT

Equipment	WIFI camera								
Model Name.	AP-9825B-2MP36TY								
Serial Model	AP-9825B-2MP3612TY, AP-9504, AP-TY288-1MP-DP, AP-TY288-2MP-DP, AP-TY288-1MP-DP-SG, AP-TY288-2MP-DP-SG, AP-AKX7-2MP, AP-7410NM, AP-7810NM, AP-S5-WIFI, AP-8204, AP-9204, AP-8208, AP-8504, AP-9208, AP-9826-10-YCC-1MP, AP-9826-10-YCC-2MP								
Difference description	All model's the function, software and electric circuit are the same, only with a product color and model named different. Test sample model: AP-9825B-2MP36TY.								
Product Description	<p>The EUT is WIFI camera. 2.4G WIFI</p> <table><tr><td>Operation Frequency:</td><td>IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11 n40 2422-2462MHz</td></tr><tr><td>Modulation Type:</td><td>DSSS,OFDM</td></tr><tr><td>Antenna Designation:</td><td>Internal Antenna</td></tr><tr><td>Antenna Gain(Peak)</td><td>1.0dBi</td></tr></table> <p>Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.</p>	Operation Frequency:	IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11 n40 2422-2462MHz	Modulation Type:	DSSS,OFDM	Antenna Designation:	Internal Antenna	Antenna Gain(Peak)	1.0dBi
Operation Frequency:	IEEE 802.11b/g/n20 2412-2472MHz IEEE 802.11 n40 2422-2462MHz								
Modulation Type:	DSSS,OFDM								
Antenna Designation:	Internal Antenna								
Antenna Gain(Peak)	1.0dBi								
Channel List	Refer to below								
Hardware Version	V2.0								
Software Version	V2.0								



2.EN IEC 62311 REQUIREMENT

2.1 GENERAL INFORMATION

According to its specifications, the EUT must comply with the requirements of the following standards:

EN IEC 62311:2020 [Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)]

2.2 LIMIT

A. Typical usage, installation and the physical characteristics of equipment make it inherently compliant with the applicable EMF exposure levels such as those listed in the bibliography. This low-power equipment includes unintentional (or non-intentional) radiators, for example incandescent light bulbs and audio/visual (A/V) equipment, information technology equipment (ITE) and multimedia equipment (MME) that does not contain radio transmitters.

NOTE Equipment is described as A/V equipment, ITE or MME if its main use is playback/recording of music, voice or images, or processing of digital information.

B. The input power level to electrical or electronic components that are capable of radiating electromagnetic energy in the relevant frequency range is so low that the available antenna power and/or the average total radiated power cannot exceed the low-power exclusion level defined in 4.2.

C. The available antenna power and/or the average total radiated power are limited by product standards for transmitters to levels below the low-power exclusion level defined in 4.2.

D. Measurements or calculations show that the available antenna power and/or the average total radiated power are below the low-power exclusion level defined in 4.2.



3. RESULT

3.1 Summary of Results

Limit (W/ m ²)	Result (W/ m ²)	Verdict
10	0.050	passed

3.2 MPE Evaluation

$$S = PG / 4\pi R^2$$

P = Power input to antenna

G = Antenna Gain

R = distance to the center of radiation of antenna (in meter) = 0.2 m

$$\pi=3.142$$

The maximum power density at a distance of 0.2 m for EUT is shown as below:

Operation Mode	Max. Conducted Power (W)	R (m)	Max. EIRP (W)	Limit (W/m ²)	Conclusion
2.4GWIFI	0.025	0.2	0.050	10	PASS

3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

.....End of Report.....