



HUAKE TESTING

TEST Report

EN IEC 62311:2020

Prepared for :

VIDEOSTRONG TECHNOLOGY CO., LIMITED

604, Lushi industrial Building, 28 District, Bao'an District, Shenzhen, China

Product: NOW

Trade Name: MECOOL

Model Name: KA2, KA1, KA1 PRO, KA2 PRO, KA3, KA3 PRO, KA5, KA5 PRO, KA6

Date of Test: Jan. 25, 2021 to Mar. 29, 2021

Date of Report: Mar. 29, 2021

Report Number: HK2101250269-2EH

Prepared By :

Shenzhen HUAKE Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

TEL: +86-755-2302 9901 FAX: +86-755-2302 9901

E-mail: service@cer-mark.com http://www.cer-mark.com

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.

HUAKE Testing Lab TEL : +86-755 2302 9901 FAX : +86-755 2302 9901 E-mail : service@cer-mark.com

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



Applicant : VIDEOSTRONG TECHNOLOGY CO., LIMITED
Address : 604, Lushi industrial Building, 28 District, Bao'an District, Shenzhen, China
Manufacturer : VIDEOSTRONG TECHNOLOGY CO., LIMITED
Address : 604, Lushi industrial Building, 28 District, Bao'an District, Shenzhen, China
EUT Description : NOW
(A) Model No. : KA2
(B) Serial Model : KA1, KA1 PRO, KA2 PRO, KA3, KA3 PRO, KA5, KA5 PRO, KA6
(C) Power Supply : DC 5V From Adapter

Standards EN IEC 62311:2020

This device described above has been tested by HUAKE, and the test results show that the equipment under test (EUT) is in compliance with the 2014/53/EU RED Directive Art.3.2 requirements. And it is applicable only to the tested sample identified in the report.

This report shall not be reproduced except in full, without the written approval of HUAKE, this document may be altered or revised by HUAKE, personal only, and shall be noted in the revision of the document.

Test Result..... **Pass**

Date of Test: Jan. 25, 2021 to Mar. 29, 2021

Prepared by:

Len Liao

Project Engineer

Reviewed by:

Sliver

Project Supervisor

Approved by:

Jason Hsu

Technical Director

**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	2021/03/29	Jason Zhou



Table of Contents

Page

1 . GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF EUT	5
2 .EN IEC 62311 REQUIREMENT	6
2.1 GENERAL INFORMATION	6
2.2 LIMIT	6
3. RESULT	7



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	NOW
Model Name.	KA2
Serial Model	KA1, KA1 PRO, KA2 PRO, KA3, KA3 PRO, KA5, KA5 PRO, KA6
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: KA2.
Product Description	The EUT is NOW. 2.4G WIFI
	Operation Frequency: IEEE 802.11b/g/n20/ax 20: 2412-2472MHz IEEE 802.11n40/ax 40: 2422-2462MHz
	Modulation Type: DSSS, OFDM
	Antenna Designation: Internal Antenna
	Antenna Gain(Peak) 3.0dBi
	5G 5150-5250:
	Operation Frequency: IEEE 802.11a:5180MHz-5240MHz IEEE 802.11n HT20/IEEE 802.11ac HT20:5180MHz-5240MHz IEEE 802.11n HT40/IEEE 802.11ac HT40:5190MHz-5230MHz IEEE 802.11ac HT80:5210MHz
	Modulation Type: IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (64QAM, 16QAM, QPSK,BPSK)
	Antenna Designation: Internal Antenna
	Antenna Gain(Peak) 3.0dBi
	5745-5825
	Operation Frequency: IEEE 802.11a/ IEEE 802.11n HT20/802.11ac HT20:5745MHz-5825MHz IEEE 802.11n HT40/ IEEE 802.11ac HT40:5755-5795MHz IEEE 802.11ac HT80:5775MHz
	Modulation Type: IEEE 802.11a: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT20: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) IEEE 802.11ac HT80: OFDM (64QAM, 16QAM, QPSK,BPSK)
	Antenna Designation: Internal Antenna
	Antenna Gain(Peak) 3.0dBi
	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.
Channel List	Refer to below
Hardware Version	V1.X
Software Version	V4

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAKE, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.cer-mark.com>.



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 (0 Hz 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	0.100	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	0.050	0.2	0.100	10	PASS

Operation Mode	Max. Conducted Power (W)	R (m)	Max. EIRP (W)	Limit (W/m ²)	Conclusion
5150-5250	0.018	0.2	0.036	10	PASS
5475-5825	0.013	0.2	0.026	10	PASS

3.3 Measurement Uncertainty

Extended Uncertainty (k=2) 95% 0.5dB

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