





RF EXPOSURE REPORT

Applicant	Ningbo Lingzhu Technology CO., Ltd.
Address	No.578, Building 7, No.535 Kangqiao South Road, Jiangbei District, Ningbo, PRC

Manufacturer or Supplier	Ningbo Lingzhu Technology CO., Ltd.
Address	No.578, Building 7, No.535 Kangqiao South Road, Jiangbei District, Ningbo, PRC
Product	Smart Camera
Brand Name	N/A
Model	SC116-WZ3
Additional Model & Model Difference	SC116-WZ2, SC116-WZ2A, SC116-WZ2B, SC116-WZ2C, SC116-WZ4, SC116-WZ4A, SC116-WZ4B, SC116-WZ4C, SC116-WZ3A, SC116-WZ3B, SC116-WZ3C ,etc.; see item 1
Date of tests	Apr. 19, 2023 ~ May 17, 2023

- **⊠** IEEE C95.1

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Tested by Niko Zhang Project Engineer / EMC Department	Approved by Glyn He Assistant Manager / EMC Department
Niko	Au

Date: Jun. 06, 2023

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Bureau Veritas Shenzhen Co., Ltd. Dongguan Branch

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080

Email: customerservice.dg@bureauveritas.com



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Tel: +86 769 8998 2098 Fax: +86 769 8593 1080

Email: customerservice.dg@bureauveritas.com



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2304WDG0121	Original release	Jun. 06, 2023

Tel: +86 769 8998 2098 Fax: +86 769 8593 1080

Email: customerservice.dg@bureauveritas.com



1. CERTIFICATION

FCC ID:	2A789SC116		
PRODUCT:	Smart Camera		
BRAND NAME:	N/A		
MODEL NO.:	SC116-WZ3		
ADDITIONAL NO.:	SC116-WZ2, SC116-WZ2A, SC116-WZ2B, SC116-WZ2C, SC116-WZ4, SC116-WZ4A, SC116-WZ4B, SC116-WZ4C, SC116-WZ3A, SC116-WZ3B, SC116-WZ3C, SC116-WZ2-FC, SC116-WZ2A-FC, SC116-WZ2B-FC, SC116-WZ2C-FC, SC116-WZ4-FC, SC116-WZ4A-FC, SC116-WZ4B-FC, SC116-WZ4C-FC, SC116-WZ3-FC, SC116-WZ3A-FC, SC116-WZ3B-FC, SC116-WZ3C-FC		
TEST SAMPLE:	Engineering Sample		
APPLICANT:	Ningbo Lingzhu Technology CO., Ltd.		
STANDARDS:	FCC Part 2 (Section 2.1091)		
	KDB 447498 D01		
	IEEE C95.1		

Note: Additional models (see above table) are identical to each other, except for different model name, resolution of webcam and base. These differences are not related to the radio frequency function. "2, 3, 4" in model name for different resolutions which represents 2MP, 3MP, 4MP. "A, B, C" in model name for different bases, without letter represents round base, A represents square base, B C represents the other bases. "FC" in model name for different lens which represents another aperture and focal length lens.

Email: customerservice.dg@bureauveritas.com



2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD MAGNETIC FIELD POWER DENSITY STRENGTH (V/m) STRENGTH (A/m) (mW/cm²)			AVERAGE TIME (minutes)		
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE						
300-1500 F/1500 30						
1500-100,000			1.0	30		

F = Frequency in MHz

3. MPE CALCULATION FORMULA

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

4. 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**.



5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type	
Chain 0	3.36	FPC Antenna	

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
802.11b	2412-2462	17	+-2	15	19
802.11g	2412-2462	14	+-2	12	16
802.11n(HT20)	2412-2462	13	+-2	11	15

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
802.11b	2437	17.65
802.11g	2462	14.86
802.11n(HT20)	2412	13.67

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm²)	LIMIT (mW/cm²)
2412-2462	19	3.36	20	0.03426	1.0

--- END ---