

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	SC106-WL3
Additional Model & Model Difference	SC106-WL3A, SC106-WL3B, SC106-WL3C, SC106-WL2, SC106-WL2A, SC106-WL2B, SC106-WL2C, SC106-WL4, SC106-WL4A, SC106-WL4B, SC106-WL4C, SC009-WL2, SC009-WL2A, SC009-WL2B, etc.; see item 1
Date of tests	Apr. 19, 2023 ~ May 08, 2023

FCC Part 2 (Section 2.1091)

KDB 447498 D01

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




Date: Jun. 21, 2023

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA.....	5
4. CLASSIFICATION	5
5. ANTENNA GAIN	6
6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



Test Report No.: FM2304WDG0059

RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
ARFR-ESH-P22080199B-2	Original release	Aug.23, 2022
FM2304WDG0059	Based on the original report ARFR-ESH-P22080199B-1 added additional model. Only model number, main board soc and the bracket changed, it needed to be retest "Radiated Emission below 1GHz" and "AC Power Conducted Emission" items after engineer evaluated.	Jun. 21, 2023

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

1. CERTIFICATION

FCC ID:	2A789SC009
PRODUCT:	Smart Camera
BRAND NAME:	N/A
MODEL NO.:	SC106-WL3
ADDITIONAL NO.:	SC106-WL3A, SC106-WL3B, SC106-WL3C, SC106-WL2, SC106-WL2A, SC106-WL2B, SC106-WL2C, SC106-WL4, SC106-WL4A, SC106-WL4B, SC106-WL4C, SC009-WL2, SC009-WL2A, SC009-WL2B, SC009-WL2C, SC009-WL1, SC009-WL1A, SC009-WL1B, SC009-WL1C, SC009-WL3, SC009-WL3A, SC009-WL3B, SC009-WL3C, SC106-WL2-FC, SC106-WL2A-FC, SC106-WL2B-FC, SC106-WL2C-FC, SC106-WL3-FC, SC106-WL3A-FC, SC106-WL3B-FC, SC106-WL3C-FC, SC106-WL4-FC, SC106-WL4A-FC, SC106-WL4B-FC, SC106-WL4C-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.

2. RF EXPOSURE LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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	1.26	PCB Antenna

6. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

The measured conducted Peak Power

Mode	Frequency (MHz)	Peak Power (dBm)
802.11b	2412	17.56
802.11g	2412	14.78
802.11n(HT20)	2412	14.48

FREQUENCY BAND (MHz)	MAX PEAK POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	17.56	1.26	20	0.0152	1.0

--- END ---