

RF Exposure Evaluation
For
NingBo New Beam Digital Electronic Technology CO.,LTD
Camera
Test Model: S205
Additional Model No.: S200

Prepared for	:	NingBo New Beam Digital Electronic Technology CO.,LTD
Address	:	Room 2003-2, Taikang Building, NO.42, Lane818, QianHe South Road, Shounan Street, Yinzhou District, Ningbo, China
Prepared by	:	Guangzhou LCS Compliance Testing Laboratory Ltd.
Address	:	No.44-1,Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Tel	:	(+86) 020-39166689
Fax	:	(+86) 020-39166619
Web	:	www.LCS-cert.com
Mail	:	webmaster@LCS-cert.com
Date of receipt of test sample	:	August 28, 2025
Number of tested samples	:	2
Sample No.	:	C250827012-1, C250827012-2
Serial number	:	Prototype
Date of Test	:	August 28, 2025 ~ September 12, 2025
Date of Report	:	September 15, 2025

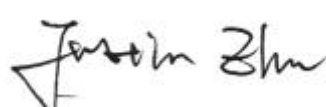
RF Exposure Evaluation	
Report Reference No. : LCSC08255014EB	
Date of Issue..... : September 15, 2025	
Testing Laboratory Name..... : Guangzhou LCS Compliance Testing Laboratory Ltd.	
Address..... : No.44-1,Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China	
Testing Location Procedure..... : Full application of Harmonised standards <input checked="" type="checkbox"/> Partial application of Harmonised standards <input type="checkbox"/> Other standard testing method <input type="checkbox"/>	
Applicant's Name..... : NingBo New Beam Digital Electronic Technology CO.,LTD	
Address..... : Room 2003-2, Taikang Building, NO.42, Lane818, QianHe South Road, Shounan Street, Yinzhou District, Ningbo, China	
Test Specification	
Standard..... : FCC KDB publication 447498 D01 General RF Exposure Guidance v06 FCC CFR 47 part1 1.1310 FCC CFR 47 part2 2.1093	
Test Report Form No..... : TRF-4-E-215 A0	
TRF Originator..... : Guangzhou LCS Compliance Testing Laboratory Ltd.	
Master TRF..... : Dated 2011-03	
Guangzhou LCS Compliance Testing Laboratory Ltd. All rights reserved. This publication may be reproduced in whole or in part for non-commercial purposes as long as the Guangzhou LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Guangzhou LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.	
EUT Description..... : Camera	
Trade Mark..... : NBD	
Test Model..... : S205	
Ratings..... : Please Refer to Page 6	
Result : Pass	

Compiled by:



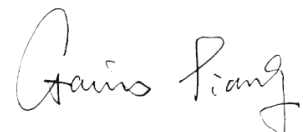
Lifeng Le / File administrators

Supervised by:



Justin Zhu / Technique Director

Approved by:



Gavin Liang/ Manager

RF Exposure Evaluation

Test Report No. :	LCSC08255014EB	<u>September 15, 2025</u> Date of issue
--------------------------	-----------------------	--

Test Model.....	: S205
EUT.....	: Camera
Applicant.....	NingBo New Beam Digital Electronic Technology CO.,LTD
Address.....	: Room 2003-2, Taikang Building, NO.42, Lane818, QianHe South Road, Shounan Street, Yinzhou District, Ningbo, China
Telephone.....	: /
Fax.....	: /
	:
Manufacturer.....	NingBo New Beam Digital Electronic Technology CO.,LTD
Address.....	: Room 2003-2, Taikang Building, NO.42, Lane818, QianHe South Road, Shounan Street, Yinzhou District, Ningbo, China
Telephone.....	: /
Fax.....	: /
	:
Factory.....	Yuhong Electronics (Shenzhen) Co., Ltd
Address.....	: Room 201, Times Building, No. 57 Longguan East Road, Qinghua Community, Longhua Subdistrict, Longhua District, Shenzhen, China
Telephone.....	: /
Fax.....	: /

Test Result	Pass
--------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Revision History

Report Version	Issue Date	Revision Content	Revised By
000	September 15, 2025	Initial Issue	--

TABLE OF CONTENTS

Description	Page
1. PRODUCT INFORMATION	6
2. EVALUATION METHOD AND LIMIT	6
3. REFER EVALUATION METHOD	7
4. CONDUCTED POWER RESULTS	7
5. MANUFACTURING TOLERANCE	8
6. EVALUATION RESULTS	8
7. CONCLUSION	8
8. DESCRIPTION OF TEST FACILITY	8
9. MEASUREMENT UNCERTAINTY	9

1. Product Information

Product name	: Camera
Test Model	: S205
Additional Model No.	: S200
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: Input: 5V \pm 1A DC 3.8V by Rechargeable Li-ion Battery, 2000mAh
Hardware Version	: S205D V2
Software Version	: S205D_34.12.049
WIFI(2.4G Band)	
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: PCB Antenna, 0.62dBi(Max.)
Exposure category	: General population/uncontrolled environment
EUT Type	: Production Unit
Device Type	: Portable Device

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.22 The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f \text{ (GHz)}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- f (GHz) is the RF channel transmit frequency in GHz
 - Power and distance are rounded to the nearest mW and mm before calculation
 - The result is rounded to one decimal place for comparison
 - 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
- The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- The $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$.
- The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $[\sum \text{ of MPE ratios}] \leq 1.0$.

3. Refer Evaluation Method

[ANSI C95.1–1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

[2.4G WIFI]

Mode	Channel	Frequency (MHz)	Max Conducted Power(dBm)
11B	1	2412	8.28
	6	2437	7.51
	11	2462	8.24
11G	1	2412	7.11
	6	2437	7.08
	11	2462	7.55
11N20 SISO	1	2412	7.49
	6	2437	7.56
	11	2462	8.04
11N40 SISO	3	2422	7.92
	6	2437	7.68
	9	2452	7.61

5. Manufacturing Tolerance

[2.4G WIFI]

11B (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	8.0	7.0	8.0
Tolerance \pm (dB)	1.0	1.0	1.0
11G (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	7.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N20 (Peak)			
Channel	Channel 1	Channel 6	Channel 11
Target (dBm)	7.0	7.0	8.0
Tolerance \pm (dB)	1.0	1.0	1.0
11N40 (Peak)			
Channel	Channel 3	Channel 6	Channel 9
Target (dBm)	7.0	7.0	7.0
Tolerance \pm (dB)	1.0	1.0	1.0

6. Evaluation Results

6.1 Standalone Evaluation

[2.4G WIFI]

Band/Mode	Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	SAR Test Exclusion
			dBm	mW		
IEEE 802.11b	2.462	5	9.0	7.9433	2.4927 < 3.0	Yes
IEEE 802.11g	2.462	5	8.0	6.3096	1.9800 < 3.0	Yes
IEEE 802.11n HT20	2.462	5	9.0	7.9433	2.4927 < 3.0	Yes
IEEE 802.11n HT40	2.452	5	8.0	6.3096	1.9760 < 3.0	Yes

Remark:

1. Output power including tune up tolerance;
2. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

6.2 Simultaneous Transmission for SAR Exclusion

The sample support one BT modular. No need consider simultaneous transmission.

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

8. Description of Test Facility

CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

9. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Output power	:	1GHz-40GHz	±0.57dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

.....THE END OF REPORT.....