

RF Exposure Evaluation Report

Product : Digital camera
Trade mark : NBD
Model/Type reference : S205, S205E, S205F, S205E-5K,
S205E-8K, S205F-5K, S205F-8K
Serial Number : N/A
Report Number : EED32S822001
FCC ID : 2BYEW-S205
Date of Issue : September 29, 2026
Test Standards : 47 CFR Part 1.1307
47 CFR Part 1.1310
47 CFR Part 2.1093
KDB 447498 D04 Interim General RF
Exposure Guidance v01
Test result : PASS

Prepared for:

NingBo New Beam Digital Electronic Technology CO.,LTD
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2 General Information

2.1 Client Information

Applicant:	NingBo New Beam Digital Electronic Technology CO.,LTD
Address of Applicant:	Rm 2003-2, Taikang Bldg, No.42, Ln 818, Qianhe S Rd, Shounan, Yinzhou, Ningbo, Zhejiang, CHINA
Manufacturer:	Shenzhen Xinbo Technology Co., Ltd.
Address of Manufacturer:	Room F610, Building F, Huafeng International Robot Industrial Park, Hangcheng Boulevard, Nanchang Community, Xixiang Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R.China
Factory:	Shenzhen Xinbo Technology Co., Ltd.
Address of Factory:	Room F610, Building F, Huafeng International Robot Industrial Park, Hangcheng Boulevard, Nanchang Community, Xixiang Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R.China

2.2 General Description of EUT

Product Name:	Digital camera
Model No.:	S205, S205E, S205F, S205E-5K, S205E-8K, S205F-5K, S205F-8K
Test Model No.:	S205
Model difference:	All model numbers have the same electrical design, PCB and layout. The differences are only in model name and color. The model is as mentioned above. They come in various colors, namely: Black, White.
Trade mark:	NBD
Product Type:	Portable

2.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Modulation Type:	IEEE for 802.11b:DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g:OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40): OFDM (64QAM, 16QAM,QPSK,BPSK)	
Number of Channel:	11	
Channel Separation:	5MHz	
Function	SISO	
Antenna Type:	PCB antenna	
Antenna Gain:	0.62 dBi	
Power Supply:	Adapter:	Model No.: N/A Input: N/A Output: N/A
	Battery:	DC 3.8V
	USB Port:	DC 5V
Test Voltage:	DC 3.8V	
Sample Received Date:	Sep. 08, 2026	
Sample tested Date:	Sep. 08, 2026 to Sep. 20, 2026	

2.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

2.5 Deviation from Standards

None.

2.6 Abnormalities from Standard Conditions

None.

2.7 Other Information Requested by the Customer

None.

3 SAR Evaluation

3.1 RF Exposure Compliance Requirement

3.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B.1})$$

The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

3.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3.1.3 EUT RF Exposure Evaluation**For Stand alone:**

Band	Freq. (MHz)	Estimation distance (cm)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (mW)	Limit (mW)	MPE ratio	Result
2.4G Wi-Fi	2462	0.5	2.98	0.62	1.45	1.40	2.733	0.5109	Pass

Note:

- ① EIRP=conducted power+antenna gain;
- ② ERP=EIRP-2.15;
- ③ $EIRP(dBm) = \text{Field strength of the fundamental signal}(dBuV/m@3m) - 95.23$;
- ④ $ERP(mW) = 10^{(ERP(dBm)/10)}$;
- ⑤ The estimation distance is 0.5cm;
- ⑥ The test data please refer to the report of EED32S822000 and only the worst case data was recorded in the report.

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
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*** End of Report ***