FCC TEST REPORT

On Behalf of

SEELINK TECHNOLOGY CO., LIMITED

IP Camera

Model No.: BX-P041

Additional Model No.: Please refer to page 5.

Prepared for SEELINK TECHNOLOGY CO., LIMITED

Bld 5, Minxing Industrial Park, Minzhi, Longhua Dist, Address

ShenZhen 518131

Prepared by Shenzhen LCS Compliance Testing Laboratory Ltd. Address 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an

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Mail webmaster@LCS-cert.com

Date of receipt of test sample March 10, 2015

Number of tested samples

Serial number Prototype

March 10, 2015 - April 25, 2015 Date of Test

Date of Report April 25, 2015

FCC TEST REPORT

FCC CFR 47 PART 15 Subpart B: 2014

Report Reference No.	: LCS1504271289E
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Date Of Issue: April 25, 2015

Testing Laboratory Name......: Shenzhen LCS Compliance Testing Laboratory Ltd.

Address: 1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue,

Bao'an District, Shenzhen, Guangdong, China

Testing Location/ Procedure: Full application of Harmonised standards

Partial application of Harmonised standards

Other standard testing method

Applicant's Name.....: SEELINK TECHNOLOGY CO., LIMITED

Address: Bld 5, Minxing Industrial Park, Minzhi, Longhua Dist, ShenZhen

518131

Test Specification

Standard: FCC CFR 47 PART 15 Subpart B: 2014, ANSI C63.4-2014

Test Report Form No.: LCSEMC-1.0

TRF Originator: Shenzhen LCS Compliance Testing Laboratory Ltd.

Master TRF.....: Dated 2011-03

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Test Item Description.: IP Camera

Trade Mark: BOXKAM Model/Type Reference.....: BX-P041

Ratings: INPUT: 100-240V~50/60Hz 500mA

OUTPUT: 12V, 2000mA

Result: Positive

Compiled by:

Supervised by:

Approved by:

Tree Zhan/ File administrators

Danny Huang/ Technique principal

Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No.: LCS1504271289E

April 25, 2015 Date of issue

Type / Model..... : BX-P041 EUT.....: : IP Camera Applicant.....: : SEELINK TECHNOLOGY CO., LIMITED Address.....: 3 Bld 5, Minxing Industrial Park, Minzhi, Longhua Dist, ShenZhen 518131 Telephone....:: Fax....:: Manufacturer.....: SEELINK TECHNOLOGY CO., LIMITED Address.....: 3 Bld 5, Minxing Industrial Park, Minzhi, Longhua Dist, ShenZhen 518131 Telephone....:: Fax....:: Factory.....: SEELINK TECHNOLOGY CO., LIMITED Address.....: 3 Bld 5, Minxing Industrial Park, Minzhi, Longhua Dist, ShenZhen 518131 Telephone....:: Fax....::

Test Result according to the standards on page 5: **Positive**

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.

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1. SUMMARY OF STANDARDS AND RESULTS

1.1.Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

Description of Test Item	EMISSION Standard	Limits	Daguita
	Standard	Lillits	Results
Conducted disturbance at mains terminals	FCC CFR 47 PART 15 Subpart B: 2014	Class B	PASS
Radiated disturbance	FCC CFR 47 PART 15 Subpart B: 2014	Class B	PASS

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : IP Camera Model Number : BX-P0411

Power Supply . INPUT: 100-240V~50/60 500mA

OUTPUT: 12V, 2000mA

WIFI

Frequency Range : 2412.00-2462.00MHz

Channel Spacing : 5MHz

Channel Number : 11 Channels for 20MHz Bandwidth

7 Channels for 40MHz Bandwidth

Modulation : IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)

Technology IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)

IEEE 802.11n: OFDM (64QAM, 16QAM,QPSK,BPSK)

Data Rates : IEEE 802.11b: 1-11Mbps

IEEE 802.11g: 6-54Mbps

IEEE 802.11n: MCS0-MCS7

Antenna Description : PIFA antenna, 2.0dBi

Additional models No.	3 33	333	5-28
BX-P021	BX-P031	BX-P051	BX-P061
BX-F011	BX-F021	BX-F021K	BX-F031
BX-W021	BX-W051	BX-W151	BX-W161
BX-W141	BX-W171	BX-I111	BX-I151
BX-I161	BX-I061	100 - Bo	- B

Remark: PCB board, structure and internal of these model(s) are the same, So no additional models were tested.

2.2. Host System Configuration List and Details

Manufacturer	Description	Model	Serial Number	Certificate
163 - 163	Switching Adapter	XED-2013S	3 - 3	VOC
Lenovo	Note Book	B470	35	DOC

2.3. External I/O Cable

I/O Port Description	Quantity	Cable
I/O Alarm	(3) 1 3 (3)	N/A
AUDIO Port	(43 1 %)3	N/A
RJ45 Slot	23 1	1.0m
DC IN	23.1	N/A
TF Card Slot	331	N/A

2.4.Description of Test Facility

EMC Lab.

: CNAS Registration Number. is L4595.

FCC Registration Number. is 899208.

Industry Canada Registration Number. is 9642A-1.

VCCI Registration Number. is C-4260 and R-3804.

ESMD Registration Number. is ARCB0108.

UL Registration Number. is 100571-492.

TUV SUD Registration Number. is SCN1081.

TUV RH Registration Number. is UA 50296516-001

2.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
1150		30MHz~200MHz	± 2.96 dB	(1)
Radiation Uncertainty	:	200MHz~1000MHz	±3.10dB	(1)
	2	1000MHz~6000MHz	±4.10dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

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

2.7.Description Of Test Modes

There was 2 test Modes. TM1 to TM2 were shown below:

TM1: Normal Operating;

TM2: Idle;

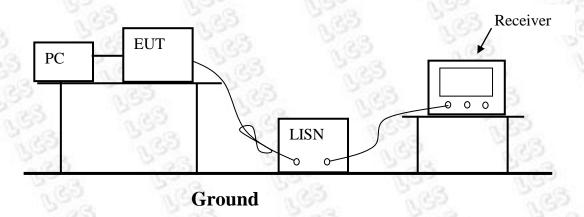
3. POWER LINE CONDUCTED MEASUREMENT

3.1. Test Equipment

The following test equipments are used during the power line conducted measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	101142	2014/06/18
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2014/06/18
3	Artificial Mains	ROHDE & SCHWARZ	ENV216	101288	2014/06/18
4	EMI Test Software	AUDIX	E3	N/A	2014/06/18
5	Coaxial Cable	ACE	S112	N/A	2014-06-18

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Measurement Limits (Class B)

Frequency of Emission	Conducted Limit (dBuV)		
(MHz)	Quasi-peak	Average	
0.15 ~ 0.50	66-56	56-46	
0.50 ~ 5.00	56	46	
5.00 ~ 30.00	60	50	

Notes: 1. *Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

3.5. Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipment.
- 3.5.3.Let the EUT work in test mode (ON) and measure it.

3.6. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC/ANSI C63.4-2014 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9kHz.

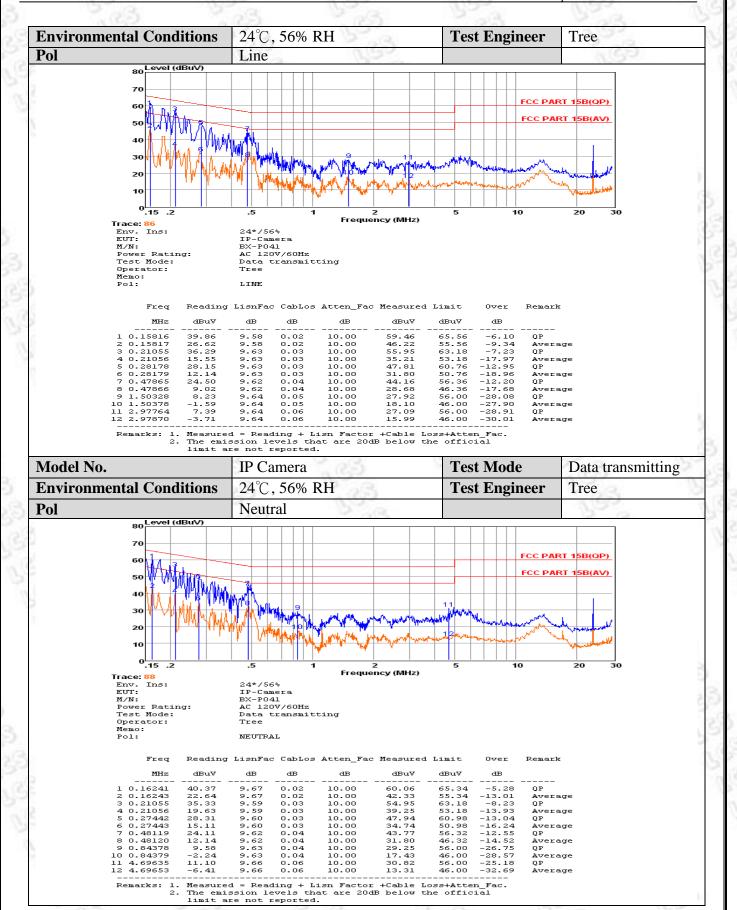
The frequency range from 150kHz to 30MHz is checked.

3.7. Power Line Conducted Emission Measurement Results

PASS.

All the scanning waveforms for Conducted Emission Measurement are refer to the next page.

Model No.	IP Camera	Test Mode	Data transmitting
Model No.	IP Camera	Test Mode	Data transmitting

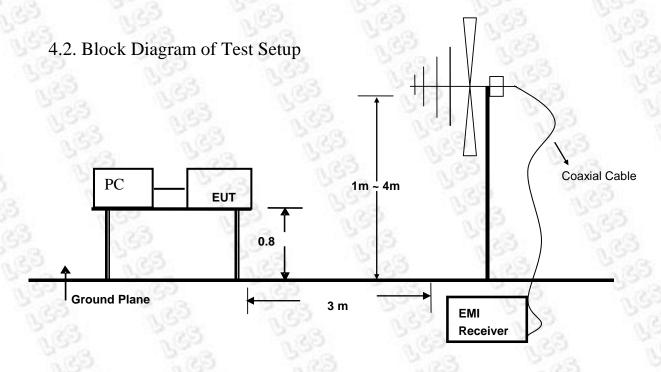


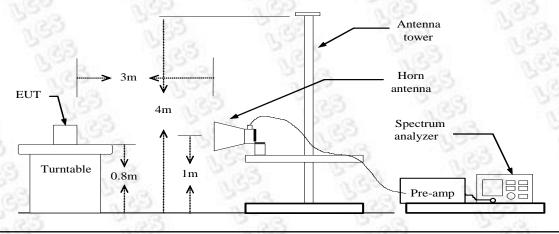
4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03СН03-НҮ	2015/02/04
2	EMI Test Receiver	ROHDE & SCHWARZ	ESPI	101840	2014/06/18
3	Log per Antenna	SCHWARZBECK	VULB9163	9163-470	2014/06/18
4	EMI Test Software	AUDIX	E3	N/A	2014/06/18
5	Positioning Controller	MF	MF-7082	/	2014/06/18
6	Coaxial Cable	ACE	S112	N/A	2014-06-18
7	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03СН03-НҮ	2014-06-18





4.3. Radiated Emission Limit (Class B)

Limits for radiated disturbance Blow 1GHz

FREQUENCY	DISTANCE	FIELD STRE	NGTHS LIMIT
MHz	Meters	$\mu V/m$	$dB(\mu V)/m$
30 ~ 88	3	100	40
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46
960 ~ 1000	3	500	54
1000 6000	3	12500	74

Remark : (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.5. Operating Condition of EUT

- 4.5.1. Setup the EUT as shown in Section 4.2.
- 4.5.2.Let the EUT work in test mode (on) and measure it.

4.6. Test Procedure

EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2014 on radiated emission measurement.

The bandwidth of the EMI test receiver is set at 120kHz, 1000kHz.

The frequency range from 30MHz to 1000MHz is checked.

4.7. Radiated Emission Noise Measurement Result **PASS.**

The scanning waveforms please refer to the next page. Only record the worst results.

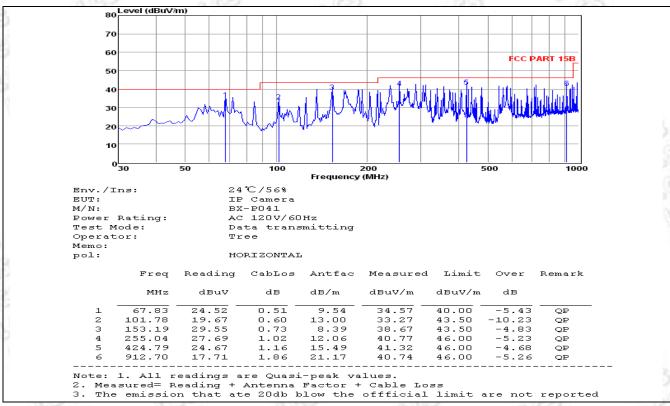
Vertical Distance 3m	Model No.	IP Camera	Test Mode	Data transmitting	
Trest Engineer Tree 80 60 60 60 60 100 Frequency (MHz) Env./Ins: 24°C/56% EUT: 1P Camera M/N: 1P Camera BX PE041 Power Rating: AC 120V/50Hz Test Mode: Data transmitting Operator: Tree Memo: VERTICAL Freq Reading CabLos Antfac Measured Limit Over Remark MHz dBuV dB dB/m dBuV/m dBuV/m dB 1 67.83 24.03 0.51 9.54 34.08 40.00 -5.92 OP	Environmental Conditions	l Conditions 24°C, 56% RH Detector Function			
Solution	Pol	Vertical	Distance	3m	
Solution FCC PART 15B FCC PART	Test Engineer	Tree	0.	300	
Env./Ins: 24°C/56% EUT: IP Camera M/N: BX-F041 Power Rating: AC 120V/60Hz Test Mode: Data transmitting Operator: Tree Memo: pol: VERTICAL Freq Reading CabLos Antfac Measured Limit Over Remark MHz dBuV dB dB/m dBuV/m dBuV/m dB 1 67.83 24.03 0.51 9.54 34.08 40.00 -5.92 QF	80 Level (dBuV/m)				
Env./Ins: 24°C/56% EUT: IP Camera M/N: BX-F041 Power Rating: AC 120V/60Hz Test Mode: Data transmitting Operator: Tree Memo: pol: VERTICAL Freq Reading CabLos Antfac Measured Limit Over Remark MHz dBuV dB dB/m dBuV/m dBuV/m dB 1 67.83 24.03 0.51 9.54 34.08 40.00 -5.92 QF					
Serv. Ins: 24°C 56%	70				
50 40 30 50 100 Frequency (MHz) Env./Ins: 24°C/56% EUT: IP Camera M/N: BX-P041 Power Rating: AC 120V/60Hz Test Mode: Data transmitting Operator: Tree Memo: pol: VERTICAL Freq Reading CabLos Antfac Measured Limit Over Remark MHz dBuV dB dB/m dBuV/m dBuV/m dB 1 67.83 24.03 0.51 9.54 34.08 40.00 -5.92 QP	60				
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2 101.78 21.53 0.60 13.00 35.13 43.50 -8.37 QP 3 204.60 26.75 0.99 10.71 38.45 43.50 -5.05 QP	Power Rating: Test Mode: Operator: Memo: pol: Freq Roman MHz 1 67.83	Data transmitting Tree VERTICAL eading CabLos Antfact dBuV dB dB/m	dBuV/m dBuV/m	dB 5.92 QP	

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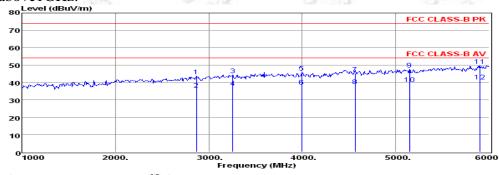
2. Measured= Reading + Antenna Factor + Cable Loss

3. The emission that ate 20db blow the offficial limit are not reported

Model No.	IP Camera	Test Mode	Data transmitting
Environmental Conditions	24°C, 56% RH	Detector Function	Quasi-peak
Pol	Horizontal	Distance	3m
Test Engineer	Tree	80	1300



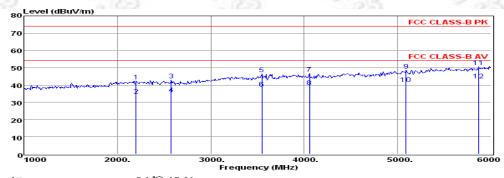
The test data above1GHz:



24°C/56% Env./Ins: IP Camera BX-P041 AC 120V/60Hz erre. Power Rating: Test Mode: Operator: transmitting Memo: pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dB	
1	2865.00	46.35	5.71	28.82	43.83	74.00	-30.17	Peak
2	2865.10	38.54	5.71	28.82	36.02	54.00	-17.98	Average
3	3255.00	45.07	6.23	30.12	44.46	74.00	-29.54	Peak
4	3255.70	37.74	6.23	30.12	37.13	54.00	-16.87	Average
5	3995.00	42.89	7.19	32.58	45.78	74.00	-28.22	Peak
6	3995.30	34.85	7.19	32.58	37.74	54.00	-16.26	Average
7	4565.00	41.33	7.54	32.71	45.09	74.00	-28.91	Peak
8	4565.50	34.36	7.54	32.71	38.12	54.00	-15.88	Average
9	5150.00	41.87	7.97	34.17	47.51	74.00	-26.49	Peak
10	5150.20	33.68	7.97	34.18	39.33	54.00	-14.67	Average
11	5900.00	41.76	8.79	36.05	49.81	74.00	-24.19	Peak
12	5900.10	32.62	8.79	36.05	40.67	54.00	-13.33	Average

ce: 1. All readings are Quasi-peak values. Measured= Reading + Antenna Factor + Cabl The emission that ate 20db blow the offfi Note: 1. Cable



Env./Ins:
EUT:
M/N:
Power Rating:
Test Mode:
Operator:
Memo:
pol: 120V/60Hz transmitting

HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dВ	dB/m	dBuV/m	dBuV/m	dВ	
1	2200.00	45.98	4.78	28.50	42.18	74.00	-31.82	Peak
2	2200.80	37.83	4.78	28.50	34.03	54.00	-19.97	Average
3	2575.00	46.68	5.31	27.85	42.73	74.00	-31.27	Peak
4	2575.30	38.79	5.31	27.85	34.84	54.00	-19.16	Average
5	3545.00	45.52	6.61	31.08	46.45	74.00	-27.55	Peak
6	3545.20	37.22	6.61	31.08	38.15	54.00	-15.85	Average
7	4055.00	43.91	7.23	32.56	46.83	74.00	-27.17	Peak
8	4055.50	35.95	7.23	32.56	38.88	54.00	-15.12	Average
9	5090.00	43.12	7.90	34.02	48.57	74.00	-25.43	Peak
10	5090.70	35.41	7.90	34.03	40.87	54.00	-13.13	Average
11	5870.00	42.68	8.76	35.97	50.61	74.00	-23.39	Peak
12	5870.10	34.85	8.76	35.98	42.79	54.00	-11.21	Average

readings

--THE END OF REPORT---