







ISO/IEC17025 Accredited Lab.

Report No: FCC1312009-03 File reference No: 2013-12-10

Applicant: Above Link Co., Ltd.

Product: Cloud Camera

Model No: AB230, AB100, AB200, AB210, AB211, AB212, AB220, AB250.

AB260, AB280

Trademark: Above-Link

Test Standards: FCC Part 15 Subpart B: 2012

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 regulations for

the evaluation of electromagnetic compatibility

Approved By

Jack Chung

Jack Chung

Manager

Dated: December 10, 2013

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. Chegongmiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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Date: 2013-12-10



Special Statement:

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L2292

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

FCC-Registration No.: 899988

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 899988.

IC- Registration No.: IC5205A-02

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-02.

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Test Report Conclusion

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Date: 2013-12-10



1.0 General Details

Test Lab Details 1.1

SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD Name:

Address: East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District,

Shenzhen, CHINA.

Telephone: (755) 83448688 Fax: (755) 83442996

1.2 Applicant Details

Applicant: Above Link Co., Ltd.

Address: 99 Jing Fifteen Road, Suite 201, Building D41, Zhenjiang, Jiangsu, China 212009

Telephone: +86-18806105125 0511-85581036 Fax:

1.3 Description of EUT

Product: Cloud Camera

Manufacturer: Above Link Co., Ltd.

99 Jing Fifteen Road, Suite 201, Building D41, Zhenjiang, Jiangsu, China Address:

212009

Brand Name: Above-Link

Model Number: **AB230**

Additional Model Number: AB100, AB200, AB210, AB211, AB212, AB220, AB250. AB260,

AB280

DC5.0V, 2A Rating:

Submitted Sample: 1 Sample

1.5 Test Duration: 2013-08-25 to 2013-12-10

Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Temy lang The sample tested by

Print Name: Terry Tong

The report refers only to the sample tested and does not apply to the bulk.

Date: 2013-12-10



List of Measurement Equipment 2.0

2.1 Conducted Emission Test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESH3	860905/006	RS	2013.8.24	1Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2013.8.24	1Year
PULSE LIMITER	ESH3-Z2	100281	RS	2013.8.24	1Year
LISN	ESH3-Z5	100294	RS	2013.8.24	1Year
LISN	ESH3-Z5	100253	RS	2013.8.24	1Year

2.2 Radiated electromagnetic disturbance test

				Calibration	Calibration
Name	Model No.	Serial No.	Manufacturer	Date	Cycle
EMI Test Receiver	ESI26	838786/013	RS	2013.8.23	1Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2013.8.24	1Year
Horn Antenna	BBHA 9120D	9120D-631	Schwarebeck	2013.8.24	1Year

2.3 **Auxiliary Equipment**

Name	Model No.	Serial No.	Manufacturer	Cable	FCC ID/DOC
Notebook	R4		IBM		FCC DOC
				Data cable of	
				1.5m length	
Mouse			DELL	unshielded	FCC DOC
				Data cable of	
Passive				1.5m length	
Earphone				unshielded	FCC VOC
Power Supply	GA90SC1-194730		Great Wall		FCC DOC

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3.0 **Technical Details**

3.1 Investigations Requested Perform Electromagnetic Interference [EMI] tests for FCC Requirement.

3.2 Test Standards

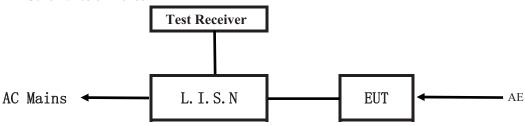
FCC Part 15 Subpart B: 2012

Date: 2013-12-10



4.0 Conducted Power line Test

4.1 Schematics of the test



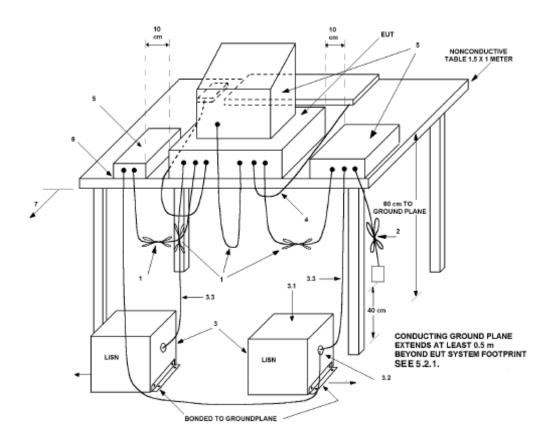
EUT: Equipment Under Test

4.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Actual Working Voltage and Frequency: 120V~, 60Hz (PC Host)

Block diagram of Test setup



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TIMEWAY

4.3 Power line conducted Emission Limit

Fraguenay(MHz)	Class A Li	Class A Limits dB(µV)		nits dB(μV)
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.00	66.00	66.00~56.00*	56.00~46.00*
$0.50 \sim 5.00$	73.00	60.00	56.00	46.00
5.00 ~ 30.00	73.00	60.00	60.00	50.00

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

2. The tighter limit shall apply at the transition frequencies

4.4 Test Results

Date: 2013-12-10

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Date: 2013-12-10



A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

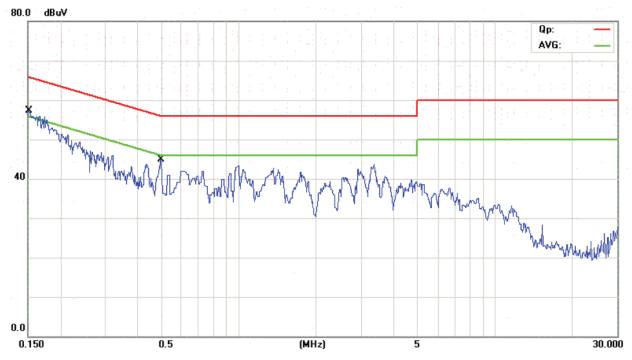
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBµV)		Limit(dBμV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.151	Live	42.60	33.20	65.92	55.92
0.492	Live	35.86	29.36	56.12	46.12

Date: 2013-12-10



B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

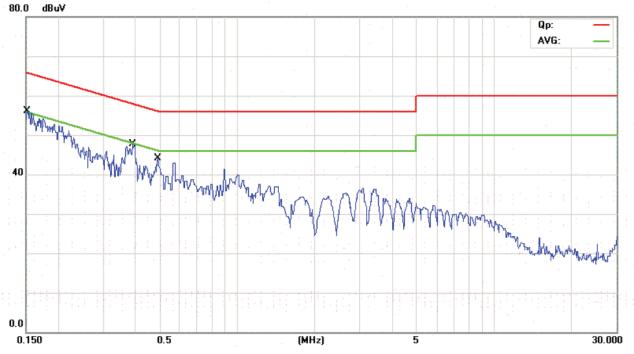
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Communication with PC

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Frequency	Line	Reading(dBμV)	Limit(dBμV)	
(MHz)	Line	Quasi-peak	Average	Quasi-peak	Average
0.151	Neutral	45.00	35.60	65.93	55.93
0.388	Neutral	29.65	24.75	58.10	48.10
0.489	Neutral	35.76	30.16	56.18	46.18

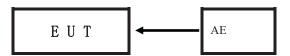
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5.0 Radiated Disturbance Test

5.1 Schematics of the test

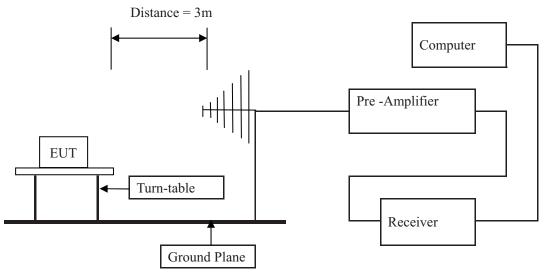


5.2 Test Method and test Procedure:

The EUT was tested according to ANSI C63.4 –2003, The frequency spectrum from 30MHz to 6GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK

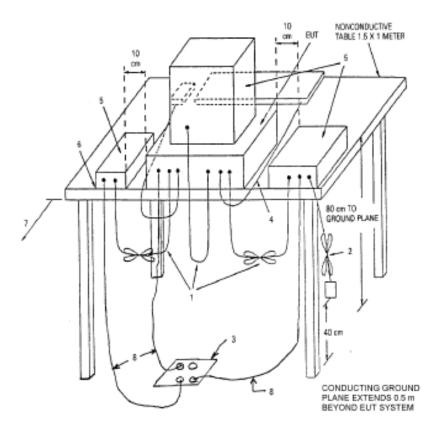
Actual Working Voltage and Frequency: 120V~, 60Hz

Block diagram of Test setup



Date: 2013-12-10





5.3 Radiated Emission Limit

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.00
88-216	3	43.50
216-960	3	46.00
Above 960	3	54.00

Note: The lower limit shall apply at the transition frequencies

5.4 Test result

The frequency spectrum from 30MHz to 1GHz was investigated. All reading from 30MHz to 1GHz are quasi-peak values with a resolution bandwidth of 120kHz. For measurement above 1GHz, peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK Measurements were made at 3 meters.

Date: 2013-12-10

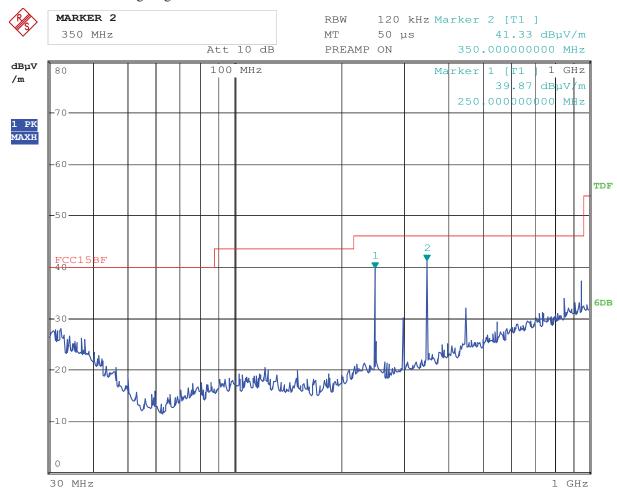


A. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Communication with **PC**

Results: Pass

Please refer to following diagram for individual



Date: 9.DEC.2013 15:16:02

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \mu V/m)
250.000	39.87	Н	46.00
350.000	41.33	Н	46.00

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Date: 2013-12-10

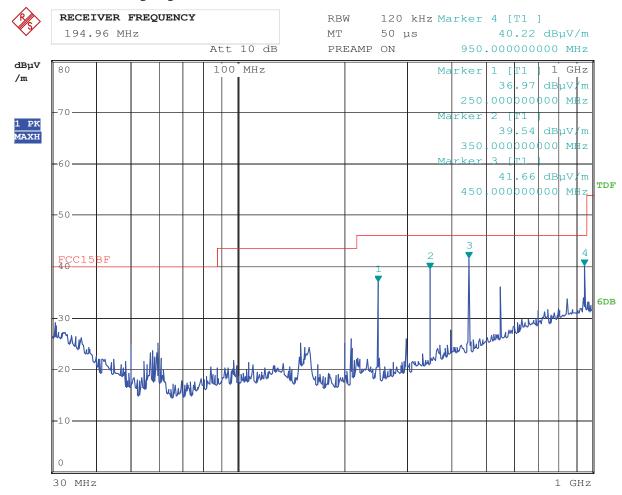


B Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Communication with PC

Results: Pass

Please refer to following diagram for individual



Date: 9.DEC.2013 15:19:01

Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \u03b4 V/m)
250.000	36.97	V	46.00
350.000	39.54	V	46.00
450.000	41.66	V	46.00
950.000	40.22	V	46.00

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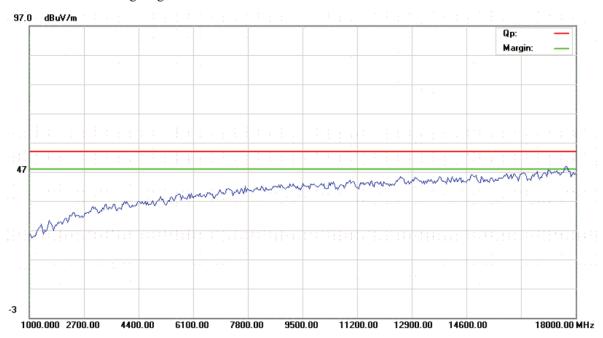


C. General Radiated Emission Data Radiated Emission In Horizontal (1000MHz----18000MHz)

EUT set Condition: Communication with **PC**

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03b4 V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
	-	Н	
-	-	Н	

Note: The radiated emission level less than the limit for more than 20dB, no necessary to take down the record

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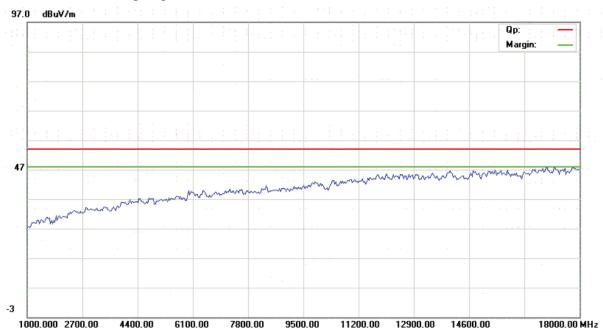


D. General Radiated Emission Data Radiated Emission In Vertical (1000MHz----6000MHz)

EUT set Condition: Communication with **PC**

Results: Pass

Please refer to following diagram for individual



Frequency (MHz)	Level@3m (dB \u03ba V/m)	Antenna Polarity	Limit@3m (dB \(\mu \)V/m)
		V	
		V	

Note: The radiated emission level less than the limit for more than 20dB, no necessary to take down the record

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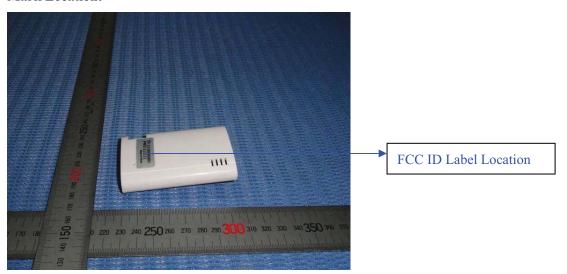
6.0 FCC ID Label

FCC ID: 2AATCAB001

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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7.0 Photo of testing

Conducted test View--7.1



Date: 2013-12-10



7.2 Radiated emission test view--





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Photo for the EUT





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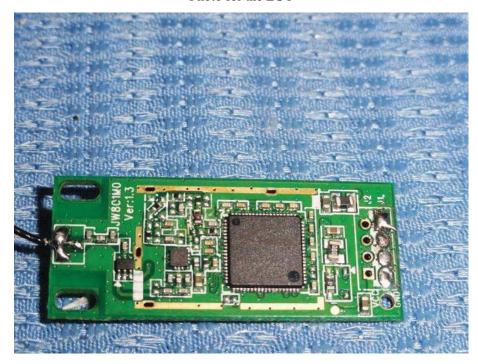
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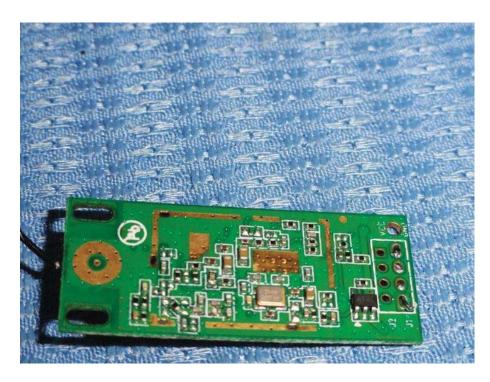
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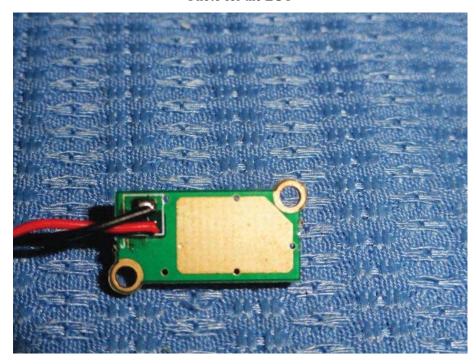
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