

FCC PART 15 SUBPART B MEASUREMENT AND TEST REPORT

For

FINGERTEC WORLDWIDE SDN BHD

NO.6, 8 & 10, JALAN BK 3/2, BANDAR KINRARA, 47180 PUCHONG, SELANGOR, MALAYSIA

MODEL: Face ID4d, Face ID4

August 24, 2013

Equipment Type: This Report Concerns: Face+RFID T&A and Access control □ Original Report Yang yang/ Test By: Report Number: BCT13HR-1420E Test Date: August 19~24, 2013 Galt. Ruan/Galt. Ruan Reviewed By: Approved By: Shenzhen Bontek Compliance Testing LaboratoryCo., Ltd. Prepared By: 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China Tel: +86-755-86337020 Fax: +86-755-86337028

Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior written consent of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.



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1 - GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:

FINGERTEC WORLDWIDE SDN BHD

Address of applicant:

NO.6, 8 & 10, JALAN BK 3/2, BANDAR KINRARA, 47180

PUCHONG, SELANGOR, MALAYSIA

Manufacturer:

FINGERTEC WORLDWIDE SDN BHD

Address of manufacturer:

NO.6, 8 & 10, JALAN BK 3/2, BANDAR KINRARA, 47180

PUCHONG, SELANGOR, MALAYSIA

General Description of E.U.T

EUT Description:

Face+RFID T&A and Access control

Trade Mark:

FING@RTEC.

Model No.:

Face ID4d, Face ID4

Test Model No.:

Face ID4d

Adapter Power Rating:

Model: ADS-45NP-12-3 12036G

Input: 100-240V~50/60Hz 1.2A

Output: 12V 3.0A

Power Rating:

Input: DC 12V 3.0A

Remark: * The test data gathered are from the production sample provided by the manufacturer.

* Supplementary models have the same circuit, but with different appearance

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Notebook	LENOVE	0658	CE,FCC	1.5m Unshielded Power Cord with core

1.2 Test Standards

The following Declaration of Conformity report of EUT is prepared in accordance with FCC Rules and Regulations Part 15 Subpart B

The objective of the manufacturer is to demonstrate compliance with the described above standards.



1.3 Test Summary

For the EUT described above. The standards used were FCC Part 15 Subpart B for Emissions

Table 1: Tests Carried Out Under FCC Part 15 Subpart B

Standard	Test Items	Status
FCC Part 15 Subpart B	Conduction Emission, 0.15MHz to 30MHz	\checkmark
FCC Part 15 Subpart B	Radiation Emission, 30MHz to 1000MHz	\checkmark

 $[\]sqrt{}$ Indicates that the test is applicable

1.4 Test Methodology

All measurements contained in this report were conducted with CISPR 16-1-1: 2006, radio disturbance and immunity measuring apparatus, and CISPR16-2-3: 2010, Method of measurement of disturbances and immunity.

All measurement required was performed at Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. at 1/F,Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

1.5 Test Facility

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

FCC - Registration No.: 338263

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd., 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 338263, March, 2011.

IC Registration No.: 7631A

The 3m alternate test site of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 2011.

The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

CNAS - Registration No.: L3923

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. to ISO/IEC 17025:25 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

The acceptance letter from the CNAS is maintained in our files: Registration: L3923, March, 2012.

TUV - Registration No.: UA 50242657-0001

Shenzhen Bontek Compliance Testing Laboratory Co.,Ltd. An assessment of the laboratory was conducted according to the "Procedures and Conditions for EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TUV Rheinland auditor. Audit Report NO.17010783-003

[×] Indicates that the test is not applicable



2 - SYSTEM TEST CONFIGURATION

2.1 Justification

The system was configured for testing in a typical fashion (as only used by a typical user).

2.2 EUT Exercise Software

The EUT exercising program used during radiated and conducted testing was designed to exercise the various system components in a manner similar to a typical use. The software offered by manufacture, can let the EUT being Normal Operation.

2.3 Special Accessories

As shown in section 2.5, interface cable used for compliance testing is shielded as normally supplied by **FINGERTEC WORLDWIDE SDN BHD** and its respective support equipment manufacturers.

2.4 Equipment Modifications

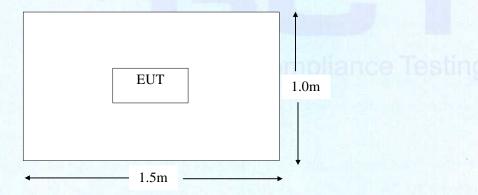
The EUT tested was not modified by BCT.

2.5 Configuration of Test System



EUT

2.6 Test Setup Diagram





3 - DISTURBANCE VOLTAGE AT THE MAINS TERMINALS

3.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement is 3.4 dB.

3.2 Limit of Disturbance Voltage at The Mains Terminals

Fraguency Pange (MUz)	Limits (dBuV)			
Frequency Range (MHz)	Quasi-Peak	Average		
0.150~0.500	66~56	56~46		
0.500~5.000	56	46		
5.000~30.00	60	50		

Note: (1)The tighter limit shall apply at the edge between two frequency bands.

3.3 EUT Setup

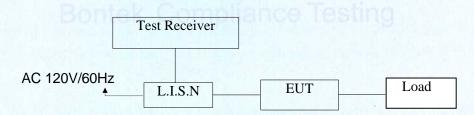
The setup of EUT is according with ANSI C63.4-2009 measurement procedure. The specification used was the FCC Rules and Regulations Part 15 Subpart B limits.

The EUT was placed center and the back edge of the test table.

The AV cables were draped along the test table and bundled to 30-40cm in the middle.

The spacing between the peripherals was 10 cm.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.



3.4 Instrument Setup

The test receiver was set with the following configurations:

Test Receiver Setting:

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3.5 Test Procedure

During the conducted emission test, the EUT power cord was connected to the auxiliary outlet of the first Artificial Mains.

Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance using all installation combination.

All data was recorded in the peak detection mode. Quasi-peak and Average readings were only performed when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits). Quasi-peak readings are distinguished with a "**QP**". Average readings are distinguished with a "**AV**".

3.6 Summary of Test Results

According to the data in section 3.6, the EUT <u>complied with the FCC Part 15 B</u> Conducted margin, with the *worst* margin reading of:

3.7 Disturbance Voltage Test Data

Temperature (°C)	22~25	
Humidity (%RH)	50~55	
Barometric Pressure (mbar)	950~1000	
EUT	Face+RFID T&A and Access control	
M/N	Face ID4d	
Operating Mode	Normal Operation	

Test data see following pages

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.

(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured

3.8 Test Equipment List and Details

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Calibration Date	Next Calibration Date
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2013-4-21	2014-4-20
2	BCT-EMC020	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	8128247	2012-11-1	2013-10-31
3	BCT-EMC032	10dB attenuator	ELECTRO- METRICS	EM-7600	836	2013-4-21	2014-4-20

3.9 Test Result

PASS



Conducted Emission Test Data

EUT: Face+RFID T&A and Access control

M/N: Face ID4d

Operating Condition: Normal Operation Test Site: Shielded Room

Operator: Yang

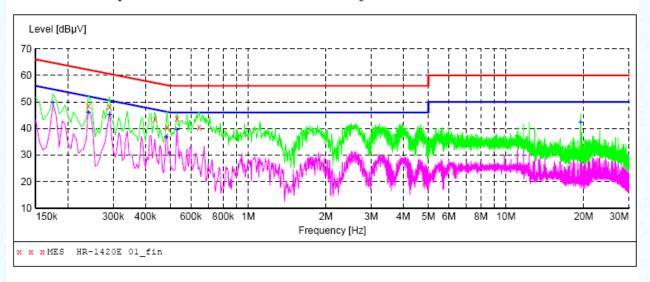
Test Specification: AC 120V/60Hz for Adapter

Comment: L Line

Start of Test: 8/19/2013/ Tem:24℃ Hum:55%

SCAN TABLE: "Voltage (150K-30M) FIN" Short Description: 150K-30M

150K-30M Voltage



MEASUREMENT RESULT: "HR-1420E 01_fin"

PE	Line	Detector	Margin dB	Limit dBµV	Transd dB		8/19/2013 9:4 Frequency MHz
GND	L	QP	13.5	62	11.2	48.60	0.240000
GND	L	QP	12.2	61	11.0	48.30	0.290000
GND	L	QP	13.7	57	10.6	43.50	0.435000
GND	L	QP	15.8	56	10.5	40.50	0.485000
GND	L	QP	12.0	56	10.5	44.00	0.530000
GND	L	QP	15.7	56	10.4	40.30	0.645000

MEASUREMENT RESULT: "HR-1420E 01 fin2"

8/19/2013 9:4	48AM						
Frequency		Transd		_	Detector	Line	PE
MHz	dΒμV	dB	dBµ∇	dB			
0.175000	49.60	12.3	55	5.1	AV	L	GND
0.240000	45.90	11.2	52	6.2	AV	L	GND
0.290000	45.20	11.0	51	5.3	AV	L	GND
0.480000	36.70	10.5	46	9.6	AV	L	GND
0.530000	39.60	10.5	46	6.4	AV	L	GND
19.500000	42.30	10.7	50	7.7	AV	L	GND

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Conducted Emission Test Data

EUT: Face+RFID T&A and Access control

M/N: Face ID4d

Operating Condition: Normal Operation
Test Site: Shielded Room

Operator: Yang

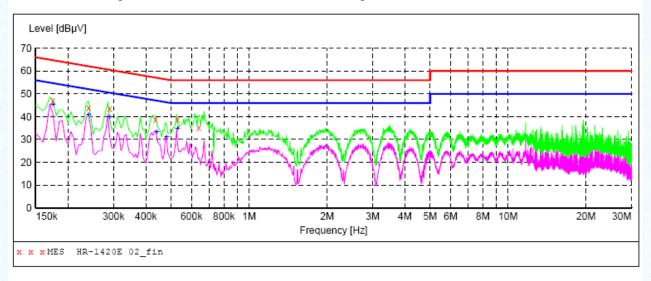
Test Specification: AC 120V/60Hz for Adapter

Comment: N Line

Start of Test: 8/19/2013/ Tem:24℃ Hum:55%

SCAN TABLE: "Voltage (150K-30M) FIN"

Short Description: 150K-30M Voltage



MEASUREMENT RESULT: "HR-1420E 02_fin"

8/19/2013 9	:52AM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dΒμV	dB	dΒμV	dB			
0.175000	47.20	12.3	65	17.5	QP	И	GND
0.240000	43.70	11.2	62	18.4	QP	N	GND
0.290000	43.40	11.0	61	17.1	QP	N	GND
0.435000	38.90	10.6	57	18.3	QP	N	GND
0.530000	38.60	10.5	56	17.4	QP	N	GND
0.640000	35.30	10.4	56	20.7	QP	N	GND

MEASUREMENT RESULT: "HR-1420E 02 fin2"

8/ 1 9/201 Frequ			Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.17	5000	45.40	12.3	55	9.3	AV	N	GND
0.24	0000	40.90	11.2	52	11.2	AV	N	GND
0.29	0000	39.90	11.0	51	10.6	AV	N	GND
0.44	0000	33.30	10.6	47	13.8	AV	N	GND
0.48	0000	31.10	10.5	46	15.2	AV	N	GND
0.53	0000	34.70	10.5	46	11.3	AV	N	GND

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4 - RADIATED DISTURBANCES

4.1 Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement is 4.0 dB.

4.2 Limit of Radiated Disturbances

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dBμV/m)
30 ~ 88	3	40
88~216	3	43.5
216 ~ 960	3	46
960 ~ 1000	3	54

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

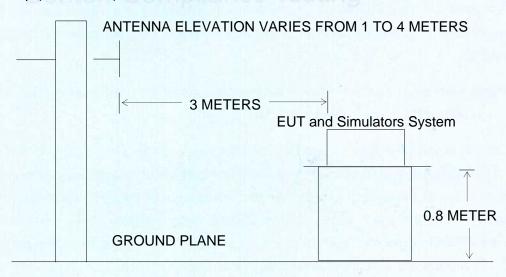
4.3 EUT Setup

The radiated emission tests were performed in the in the 3-meter anechoic chamber, using the setup accordance with the ANSI C63.4-2009. The specification used was the FCC Part 15 Subpart B limits.

The EUT was placed on the center of the test table.

Maximum emission emitted from EUT was determined by manipulating the EUT, support equipment, interconnecting cables and varying the mode of operation and the levels in the final result of the test were recorded with the EUT running in the operating mode that maximum emission was emitted.

Block diagram of test setup (In chamber)



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4.4 Test Receiver Setup

According to FCC Part 15 rule, the frequency was investigated from 30 to 1000 MHz. During the radiated emission test, the test receiver was set with the following configurations:

Test Receiver Setting:

Antenna Position:

Height......1m to 4m

Polarity......Horizontal and Vertical

4.5 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -10 dB $_{\mu}$ V of specification limits), and are distinguished with a "QP" in the data table.

4.6 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB μ V means the emission is 7dB μ V below the maximum limit for Subpart B. The equation for margin calculation is as follows:

Margin = Limit - Corr. Ampl.

4.7 Radiated Emissions Test Result

Temperature (°C)	22~25			
Humidity (%RH)	50~54			
Barometric Pressure (mbar)	950~1000			
EUT	Face+RFID T&A and Access control			
M/N	Face ID4d			
Operating Mode	Normal Operation			

Test data see following pages

Remark: (1) When PK reading is less than relevant limit 20dB, the QP reading and AV reading will not be recorded.

(2) Where QP reading is less than relevant AV limit, the AV reading will not be measured



4.8 Test Equipment List and Details

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Calibration Date	Next Calibration Date
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2013-4-21	2014-4-20
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2012-11-1	2013-10-31
3	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2012-5-19	2014-5-18

4.9 Test Result

PASS





Radiated Emission Test Data:

Face+RFID T&A and Access control EUT:

M/N: Face ID4d

Normal Operation Operating Condition: Test Site: 3m CHAMBER

Operator: Chen

Test Specification: AC 120V/60Hz for Adapter Comment: Polarization: Horizontal

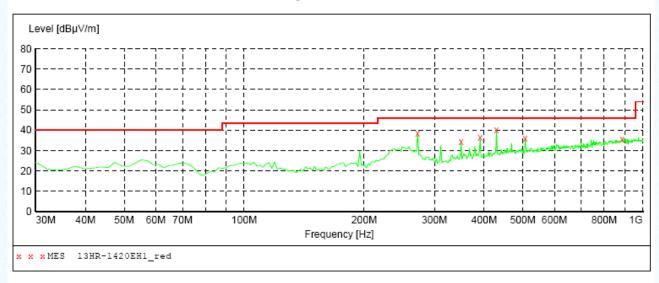
Start of Test: 8/20/2013/ Tem:25°C Hum:50%

SWEEP TABLE: "test (30M-1G)"
Short Description: Fi Field Strength Start

Detector Meas. IF Stop Transducer

Frequency Frequency Time Bandw.

30.0 MHz VULB9163 NEW 1.0 GHz MaxPeak Coupled 100 kHz



MEASUREMENT RESULT: "13HR-1420EH1 red"

24.0

29.1

36.20

35.70

8/20/2013 08:44 Frequency Level Transd Limit Margin Det. Height Azimuth Polarization dBµV/m MHz dBµV/m dB dВ cm deg 7.2 272.500000 0.00 HORIZONTAL 38.80 17.9 46.0 QP 100.0 34.40 350.100000 20.4 46.0 11.6 QP 100.0 0.00 HORIZONTAL 0.00 9.7 390.840000 36.30 21.2 46.0 QΡ 100.0 HORIZONTAL 100.0 0.00 HORIZONTAL 429.640000 22.0 46.0 5.9 40.10 QP

9.8

10.3

QP

QP

100.0

100.0

46.0

46.0

507.240000

887.480000

0.00 HORIZONTAL

0.00 HORIZONTAL



Radiated Emission Test Data:

EUT: Face+RFID T&A and Access control

M/N: Face ID4d

Operating Condition: Normal Operation
Test Site: 3m CHAMBER

Operator: Chen

Test Specification: AC 120V/60Hz for Adapter Comment: Polarization: Vertical

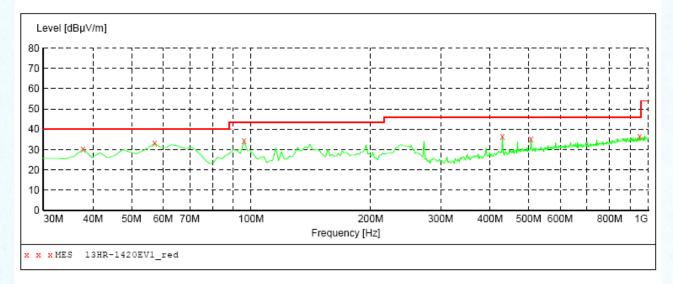
Start of Test: 8/20/2013/ Tem:25℃ Hum:50%

SWEEP TABLE: "test (30M-1G)"

Short Description: Field Strength Start Stop Detector Meas. IF

Start Stop Detector Meas. IF Transducer Frequency Frequency Time Bandw.

30.0 MHz 1.0 GHz MaxPeak Coupled 100 kHz VULB9163 NEW



MEASUREMENT RESULT: "13HR-1420EV1 red"

8/20/2013 08:43													
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization					
37.760000	30.30	15.2	40.0	9.7	QP	100.0	0.00	VERTICAL					
57.160000	33.10	15.1	40.0	6.9	QP	100.0	0.00	VERTICAL					
95.960000	34.30	17.2	43.5	9.2	QP	100.0	0.00	VERTICAL					
429.640000	36.50	22.0	46.0	9.5	QP	100.0	0.00	VERTICAL					
507.240000	35.10	24.0	46.0	10.9	QP	100.0	0.00	VERTICAL					
951.500000	36.60	29.6	46.0	9.4	QP	100.0	0.00	VERTICAL					

Tel: +86 755 86337020(60Lines) Fax: +86 755 86337028 Web: www.bontek.com.cn



APPENDIX A - EUT PHOTOGRAPHS

EUT -Whole View



EUT -Front View



EUT -Rear View



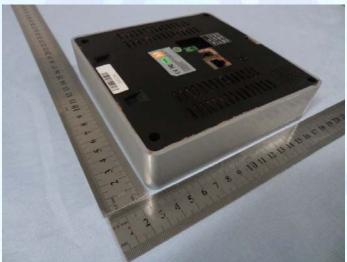
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EUT -Side View





EUT –Adapter View





EUT –Adapter Mark View



EUT – Uncovered View







EUT - Mainboard View





EUT-PCB Board





EUT-PCB Board



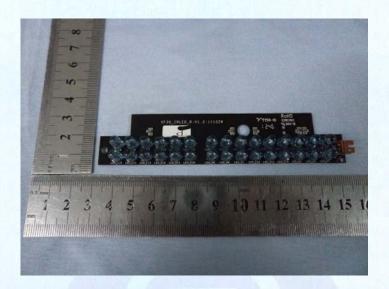
EUT-PCB Board

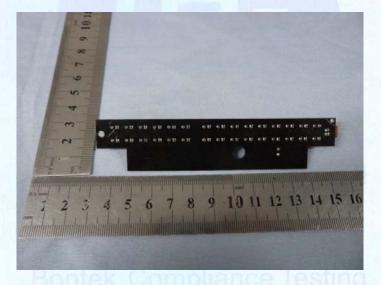




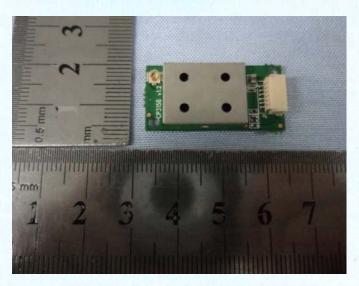


EUT-PCB Board





EUT-Module PCB VIEW

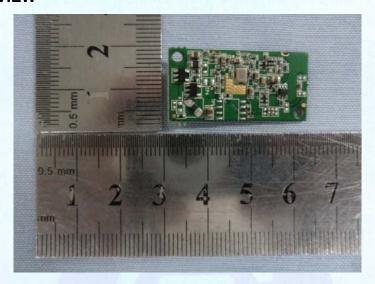


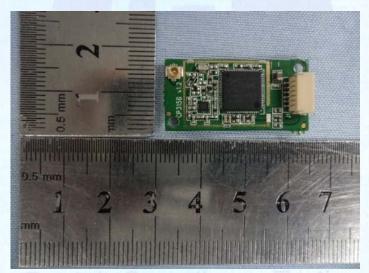
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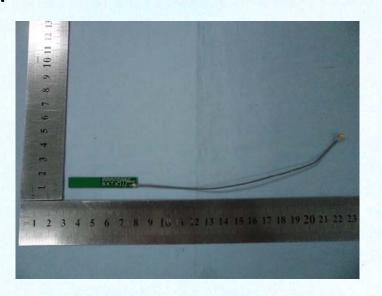


EUT-Module PCB VIEW





EUT-Antenna VIEW

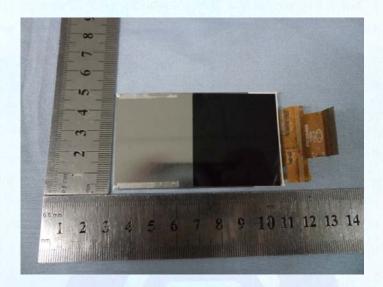


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EUT-LCD VIEW







APPENDIX B - TEST SETUP PHOTOGRAPHS

Conducted Emission

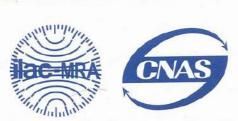


Radiated Emission





APPENDIX C - BONTEK ACCREDITATION CERTIFICATES



China National Accreditation Service for Conformity Assessment

LABORATORY ACCREDITATION CERTIFICATE

(Registration No. CNAS L3923)

Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

1/F., Block East H-3, OCT Eastern Ind. Zone, the 1st Road,

Xiangshan East Street, Nanshan District, Shenzhen, Guangdong, China

is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories(CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence of testing.

The scope of accreditation is detailed in the attached appendices bearing the same registration number as above. The appendices form an integral part of this certificate.

Date of Issue: 2012-03-22 Date of Expiry: 2015-03-21

Date of Initial Accreditation: 2009-02-27

Date of Update: 2012-03-22



Signed on behalf of China National Accreditation Service for Conformity Assessment

China National Accreditation Service for Conformity Assessment (CNAS) is authorized by Certification and Accreditation Administration of the People's Republic of China (CNCA) to operate the national accreditation schemes for conformity assessment. CNAS is the signatory to International Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (ILAC MRA) and Asia Pacific Laboratory Accreditation Cooperation Multilateral Recognition Arrangement (APLAC MRA).

No.CNASAL2

0003595





Certificate of Appointment

No. UA 50242657-0001

The Applicant

Bontek Compliance Testing
Laboratory Ltd

1/F, Block East H-3, OCT Eastern
Industrial Zone, Qiaocheng East Rd.
Nanshan, Shenzhen, Guangdong
P.R. China

has been authorized to carry out EMC tests by order and under supervision of TÜV Rheinland according to

EN55011,EN55012,EN55013,EN55014-1,EN55014-2,EN55015,EN55020 CISPR11,CISPR12,CISPR13,CISPR14-1,CISPR14-2,CISPR15,EN55022 EN55024,EN55025,CISPR20,CISPR22,CISPR24,CISPR25 EN/IEC61000-3-2/-3,EN/IEC61000-4-2/-4/-5/-6/-8/-11 EN/IEC61547,EN/IEC62040-2,EN/IEC61000-6-1 EN/IEC61000-6-2,EN/IEC61000-6-3,EN/IEC61000-6-4 EN/IEC60601-1-2,EN/IEC61326-1,EN/IEC61326-x(x=2,3,4, or 5)

An assessment of the laboratory was conducted according to the "Procedures and Conditions for Appointments of EMC Test Laboratories" with reference to EN ISO/IEC 17025 by a TÜV Rheinland auditor.

Audit Report No. 17010783-003

This certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TÜV Rheinland.

Date of issue: 05.12.2012

TÜV Rheinland/CCIC (Qingdao) Co., Ltd. 18 Hong Kong Middle Road, Qingdao 266071, P.R.China

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Certification Body

Dipl.-Ing. (FH) C. Nasca





FEDERAL COMMUNICATIONS COMMISSION

Laboratory Division 7435 Oakland Mills Road Columbia, MD 21046

March 03, 2011

Registration Number: 338263

Bontek Compliance Testing Laboratory Ltd 1/F, Block East H-3, OCT Eastern Ind. Zone, Qiaocheng East Road, Nanshan, Shenzhen, China

Attention:

Tony Wu, General Manager

Re:

Measurement facility located at Hua Qiao Cheng East Ind. Area, Shenzhen, China

Anechoic chamber (3 meter) Date of Renewal: March 03, 2011

Dear Sir or Madam:

Your request for renewal of the registration of the subject measurement facility has been received. The information submitted has been placed in your file and the registration has been renewed. The name of your organization will remain on the list of facilities whose measurement data will be accepted in conjunction with applications for Certification under Parts 15 or 18 of the Commission's Rules. Please note that the file must be updated for any changes made to the facility and the registration must be renewed at least every three years.

Measurement facilities that have indicated that they are available to the public to perform measurement services on a fee basis may be found on the FCC website www.fcc.gov under E-Filing, OET Equipment Authorization Electronic Filing, Test Firms.

Sincerely

Phyllis Parrish Industry Analyst