



Product Service

EMC - TEST REPORT

Report Number	: 65.760.14.080.01	Date of Issue:	13 August 2014
Model	: BID-IR-xxx, BID-OP-xxx, BID-EM-xxx, BID-DV-xxx, BID-CP-xxx, BID-GL2D-xxx, BID-GL3D-xxx("xxx"=015-088, means the screen size)		
Product Type	: INTERACTIVE WHITEBOARD, TOUCH SCREEN		
Applicant	: LIMBID (CHINA) CO., LIMITED		
Address	: 15/B, 15/F, Cheuk Nang Plaza, 250 Hennessy Road Kowloon, HONG KONG		
Production Facility	: LIMBID (CHINA) CO., LIMITED		
Address	: 15/B, 15/F, Cheuk Nang Plaza, 250 Hennessy Road Kowloon, HONG KONG		
Test Result	: ☒ Positive ☐ Negative		
Total pages including Appendices	: 26		

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2 Details about the Test Laboratory

Details about the Test Laboratory

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
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Long Gang,
Shenzhen,
China

Telephone: +86 755 8471 1789
Fax: +86 755 8471 1909

3 Description of the Equipment Under Test

Description of the Equipment Under Test

Product:	INTERACTIVE WHITEBOARD, TOUCH SCREEN
Model no.:	BID-IR-088
Serial number:	NIL
Options and accessories:	Notebook and USB cable
Rated Input:	5.0VDC $\pm$ 0.25V, 200mA, 1.0W Max.
Rated Power:	NIL
Remark:	NIL

Description of Auxiliary Equipment Used Under Test

- Notebook:
Brand: HP, Model: 4-1007TX, Serial: CND2382J21
- USB Cable:
Length: 6m, Type: Screened cable

4 Summary of Test Standards

Test Standards	
EN 55022: 2010	Information technology equipment — Radio disturbance characteristics — Limits and methods of measurement
EN 55024: 2010	Information technology equipment — Immunity characteristics — Limits and methods of measurement

5 Summary of Test Results

Emission Tests				
EN 55022: 2010				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Radiated Emission 30MHz to 1000MHz	9	☒	☐	☐
Radiated Emission ¹ 1000MHz to 6000MHz	---	☐	☐	☒
Conducted Emission on AC ² 150kHz to 30MHz	---	☐	☐	☒

Remark1: "1" This test only applicable to product has internal sources more than 108MHz.

Remark2: "2" EUT isn't designed to be connected to the public utility (AC) power line, therefore conducted emission test is not applicable.

Summary of Test Results

Immunity Tests				
EN 55024: 2010				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
Electrostatic Discharge (IEC 61000-4-2) ±4kV ±8kV	13	☒	☐	☐
Radiated Immunity (IEC 61000-4-3) 80MHz to 1000MHz 3V/m (rms)	16	☒	☐	☐
Electrical Fast Transient (IEC 61000-4-4) ±0.5kV	18	☒	☐	☐
Surge (IEC 61000-4-5) ±1kV ±2kV	----	☐	☐	☒
Conducted Immunity (IEC 61000-4-6) 150KHz to 80MHz 3Vrms	20	☒	☐	☐
Voltage Dips and Interruption (IEC 61000-4-11) 0%, 70%, 0% of U _T	----	☐	☐	☒

6 General Remarks

Remarks:

All models have same schematic and PCB layout, the only difference is their appearance, color and screen size, therefore EMC full test were applied on model BID-IR-088, other model are deemed to fulfill relevant EMC requirement without further testing.

Summary:

All tests according to the regulations cited on page 5 were

■ - Performed

□ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

□ - **Does not** fulfill the general approval requirements.

Sample Received Date: 06 August 2014

Testing Start Date: 06 August 2014

Testing End Date: 08 August 2014

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:



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Allen Yang
EMC Project Engineer

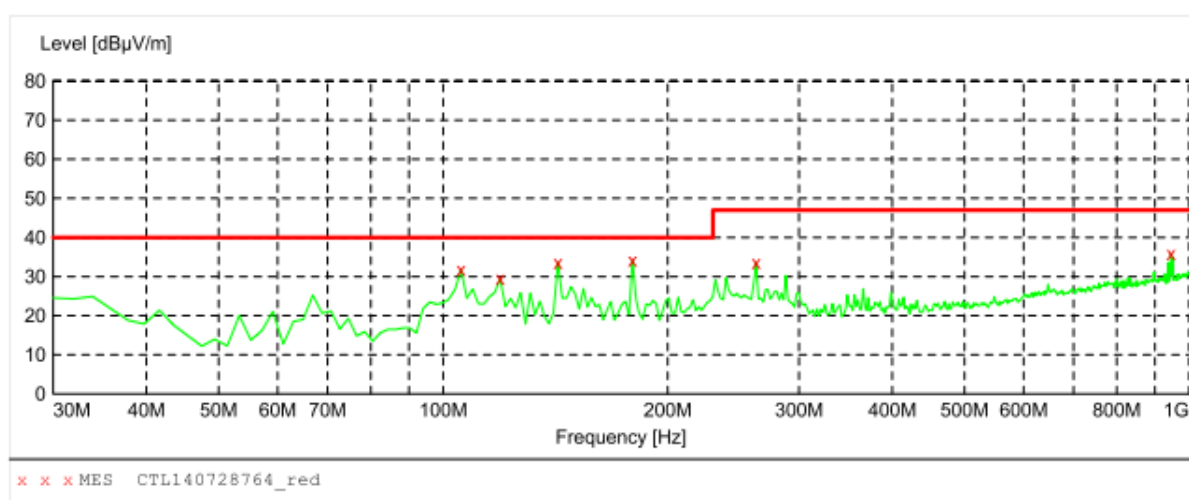
7 Emission Test Results

7.1 Radiated Emission Test 30MHz – 1000MHz

M/N : BID-IR-088
Operating Condition : On
Test Specification : Horizontal
Comment : DC 5.0V from Notebook

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

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 30.0 MHz	Frequency 1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1



MEASUREMENT RESULT: "CTL140728764_red"

8/7/2014 10:14AM

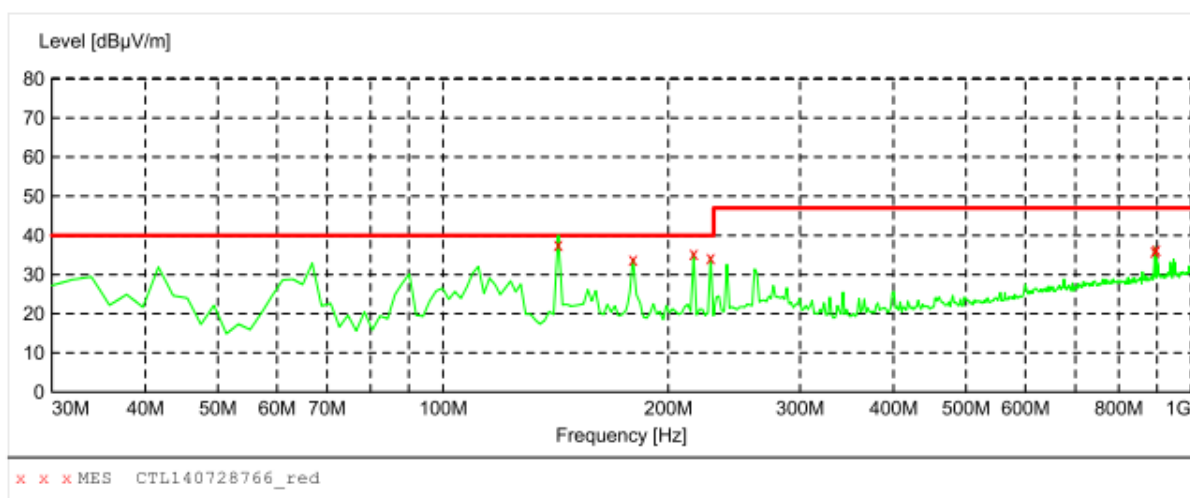
Frequency MHz	Level dBuV/m	Transd dB	Limit dBuV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
105.660000	31.80	12.9	40.0	8.2	---	0.0	0.00	HORIZONTAL
119.240000	29.50	15.2	40.0	10.5	---	0.0	0.00	HORIZONTAL
142.520000	33.60	14.5	40.0	6.4	---	0.0	0.00	HORIZONTAL
179.380000	34.20	13.3	40.0	5.8	---	0.0	0.00	HORIZONTAL
262.800000	33.60	15.1	47.0	13.4	---	0.0	0.00	HORIZONTAL
945.680000	35.90	26.6	47.0	11.1	---	0.0	0.00	HORIZONTAL

Radiated Emission Test 30MHz – 1000MHz

M/N : BID-IR-088
 Operating Condition : On
 Test Specification : Vertical
 Comment : DC 5.0V from Notebook

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

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 30.0 MHz	Frequency 1.0 GHz	MaxPeak	300.0 ms	120 kHz	JB1



MEASUREMENT RESULT: "CTL140728766_red"

8/7/2014 10:23AM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
142.520000	37.70	14.5	40.0	2.3	QP	0.0	0.00	VERTICAL
179.380000	33.90	13.3	40.0	6.1	---	0.0	0.00	VERTICAL
216.240000	35.40	14.2	40.0	4.6	---	0.0	0.00	VERTICAL
227.880000	34.30	14.1	40.0	5.7	---	0.0	0.00	VERTICAL
893.300000	36.00	26.0	47.0	11.0	---	0.0	0.00	VERTICAL
897.180000	36.40	26.0	47.0	10.6	---	0.0	0.00	VERTICAL

Test Equipment List

Radiated Emission Test

- Shenzhen CTL Testing Technology Co., Ltd.

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
ULTRA-BROADBAND ANTENNA	Sunol Sciences Corp.	JB1 Antenna	A061713	2015-05-22
EMI TEST RECEIVER	ROHDE & SCHWARZ	ESCI	1166.5950.03	2015-03-19
Coaxial	/	/	/	2015-05-22
Controller	EM Electronics	Controller EM 1000	N/A	2015-05-22

8 Performance Criteria

A	The apparatus shall continue to operate as intended during the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
B	The apparatus shall continue to operate as intended after the test. No degradation of performance or loss of function is allowed below a performance level (or permissible loss of performance) specified by the manufacturer, when the apparatus is used as intended. During the test, degradation of performance is allowed, however, no change of actual operating state or stored data is allowed. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and from what the user may reasonably expect from the apparatus if used as intended.
C	Temporary loss of function is allowed, provided the function is self-recoverable or can be restored by the operation of the controls, or by any operation specified in the instructions for use.

9 Immunity Test Results

9.1 Electrostatic Discharge Test

Applicant : LIMBID (CHINA) CO., LIMITED
 Project no. : 65.760.14.080.01
 Model : BID-IR-088
 Description : INTERACTIVE WHITEBOARD,
 TOUCH SCREEN
 Operating Mode : On

Serial No. : NIL

☒ Table Top

☐ Floor Stand

Ambient Temperature (°C) : 23 Relative Humidity (%) : 50 Atmospheric Pressure(mbar) : 1015

Test regulation : ☐ EN 61000-6-1 ☐ EN 50082-2 ☐ EN 55014-2
☒ EN 55024 ☐ IEC 1000-4-2 ☐ IEC 801-2
☐ EN 61547 ☒ IEC 61000-4-2

Indirect discharge : ☐ Draw points in the appendix

Point	Contact kV	Number and Polarity at each voltage level			
1: VCP-Front Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
2: VCP-Right Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
3: VCP-Rear Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
4: VCP-Left Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
5: HCP-Front Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
6: HCP-Right Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
7: HCP-Rear Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
8: HCP-Left Side	☒ ..2 ☐ ..3 ☒ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☒ ..10 pos	☒ ..10 neg
9: _____	☐ ..2 ☐ ..3 ☐ ..4 ☐ ..6 ☐ ..8 ☐ ..	☐ ..25 pos	☐ ..25 neg	☐ ..10 pos	☐ ..10 neg

Remarks: VCP = Vertical Coupling Plane; HCP = Horizontal Coupling Plane.

Result: ☒ Complies ☐ Does not comply ☐ Photo done

Criterion Required : **B** Criterion Met : **A**

Date : 07-August-2014 Test Engineer : Allen Yang



Product Service

Electrostatic Discharge Test

Applicant : LIMBID (CHINA) CO., LIMITED
 Project no. : 65.760.14.080.01
 Model : BID-IR-088
 Description : INTERACTIVE WHITEBOARD,
 TOUCH SCREEN
 Operating Mode : On

Serial No. : NIL

☒ Table Top☐ Floor Stand

Ambient Temperature (°C) : 23 Relative Humidity (%) : 50 Atmospheric Pressure(mbar) : 1015

Test regulation : ☐ EN 61000-6-1 ☐ EN 50082-2 ☐ EN 55014-2
☒ EN 55024 ☐ IEC 1000-4-2 ☐ IEC 801-2
☐ EN 61547 ☒ IEC 61000-4-2

Indirect discharge : ☐ Draw points in the appendix

Point	Contact kV			Air kV		Number and Polarity at each voltage level	
1. Each nonconductive location touchable by hand	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☒ ..2 ☒ ..8	☒ ..4 ☐ ..	☐ ..25 pos ☒ ..10 pos	☐ ..25 neg ☒ ..10 neg
2. Each conductive location touchable by hand	☒ ..2 ☐ ..6	☐ ..3 ☐ ..8	☒ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☒ ..10 pos	☐ ..25 neg ☒ ..10 neg
3.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
4.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
5.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
6.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
7.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
8.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
9.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg
10.	☐ ..2 ☐ ..6	☐ ..3 ☐ ..8	☐ ..4 ☐ ..	☐ ..2 ☐ ..8	☐ ..4 ☐ ..	☐ ..25 pos ☐ ..10 pos	☐ ..25 neg ☐ ..10 neg

Remarks:

Result: ☒ Complies ☐ Does not comply ☐ Photo done

Criterion Required : **B** Criterion Met : **A**

Date : 07-August-2014 Test Engineer : Allen Yang



Product Service

Test Equipment List

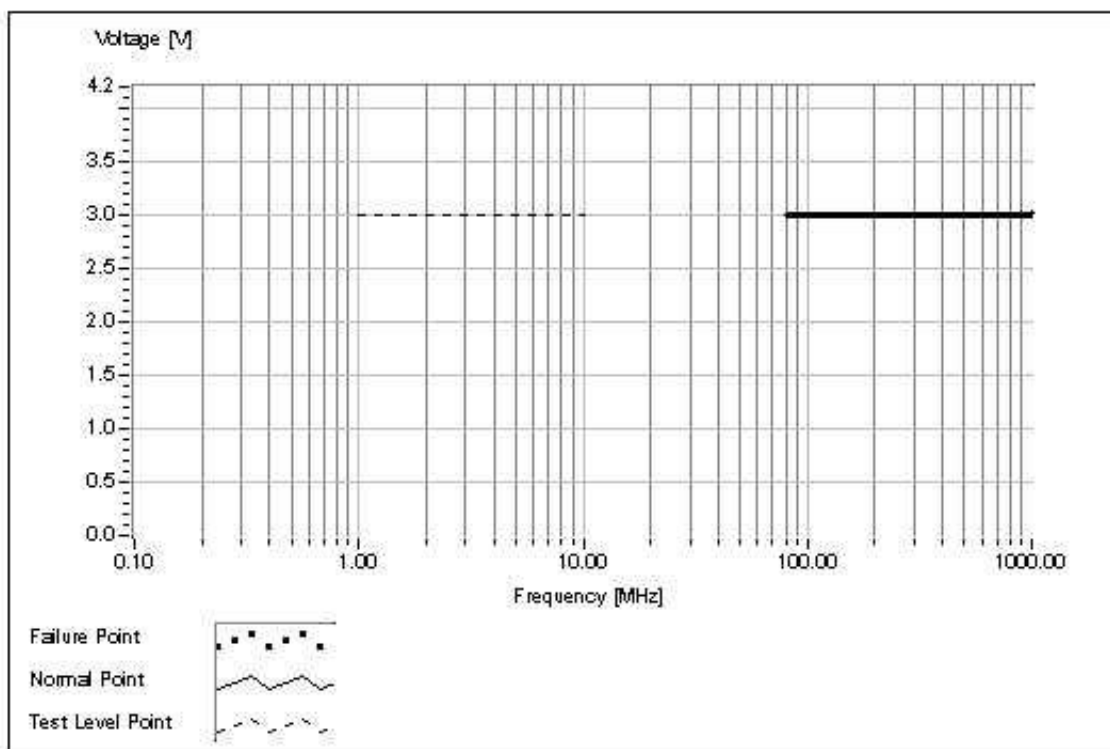
Electrostatic Discharge Test

- Shenzhen CTL Testing Technology Co., Ltd.

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
ESD Simulator	SKYLARK	ESD-2000	0220K10251	2015-05-13

9.2 Radiated Immunity Test

Applicant : LIMBID (CHINA) CO., LIMITED
 Project no. : 65.760.14.080.01
 Model : BID-IR-088
 Description : INTERACTIVE WHITEBOARD,
 TOUCH SCREEN
 Operating Mode : On
 Serial No. : NIL
☒ Table Top ☐ Floor Stand
 Ambient Temperature (°C) : 23 Relative Humidity (%) : 50 Atmospheric Pressure(mbar) : 1015
 Test regulation : ☐ EN 61000-6-1 ☐ EN 50082-2 ☐ EN 55014-2
☒ EN 55024 ☐ IEC 1000-4-3 ☐ IEC 801-2
☐ EN 61547 ☒ IEC 61000-4-3



Report number:

Remarks:

Result: ☒ Complies ☐ Does not comply ☐ Photo done

Criterion Required : A Criterion Met : A

Date : 07-August-2014 Test Engineer : Allen Yang

Test Equipment List

Radiated Immunity Test

- SOLID Industrial (SHENZHEN) Co., Ltd.

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Bilog Antenna	CHASE	CBL6111C	2777	2014.09
Synthesized Function Generator	YOKOGAWA	FC110	27D113233	2014.08
Signal Generator	R&S	SMG	839331/018	2014.08
NOISE METER	MEGURO	MN-447A	75030949	2014.08
Power Reflection Meter	R&S	NAP	839393/030	2014.08
Isotropic Field Monitor	AMPLIFIER RESEARCH	FM2000	15744	2014.08
RF Power Amplifier System	TOYO	AS300SSS	950703	2014.08
Humidity Temperature meter	CENTER	315	030802265	2014.08
System Interface	TDK	SI-300	12300010	N/A
Controller	HD	2000	HD2000120241	N/A
Function Generator	National	VP-7422A	4N0474E122	2014.08
AM/FM Stereo Signal Generator	Panasonic	VP-8122A	730969C125	2014.08
Multi Test Signal Generator	Shibasoku	TG19BB	M-63468009	2014.08
AC Power Supply	KIKUSUI	PCR-4000W	DJ000578	2014.08



Product Service

9.3 Electrical Fast Transient Test

Applicant : LIMBID (CHINA) CO., LIMITED
 Project no. : 65.760.14.080.01
 Model : BID-IR-088
 Description : INTERACTIVE WHITEBOARD,
 TOUCH SCREEN
 Operating Mode : On

Serial No. : NIL

☒ Table Top☐ Floor Stand

Ambient Temperature (°C) : 23 Relative Humidity (%) : 50 Atmospheric Pressure(mbar) : 1015

Test regulation : ☐ EN 61000-6-1 ☐ EN 50082-2 ☐ EN 55014-2
☒ EN 55024 ☐ IEC 1000-4-4 ☐ IEC 801-2
☐ EN 61547 ☒ IEC 61000-4-4

Coupling: ☐ Network ☒ Clamp

Repetition Rate: ☒ 5 kHz ☐ kHz Coupling Time: ☐ 1 minute ☒ 2 minutes

Point	Test Voltage (kV)					Criteria		
L1 (pos) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
L1 (neg) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
N (pos) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
N (neg) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
PE (pos) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
PE (neg) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
L1+N (pos) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
L1+N (neg) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
L1+N+PE (pos) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
L1+N+PE (neg) to Ref Gnd	☐ .0.5	☐ .1	☐ .2	☐ .4	☐ ..	☐ .A	☐ .B	☐ .C
Signal Line	☐ .0.25	☒ .0.5	☐ .1	☐ .2	☐ ..	☒ .A	☐ .B	☐ .C

Remarks:

Result: ☒ Complies ☐ Does not comply ☐ Photo done

Criterion Required : **B** Criterion Met : **A**

Date : 07-August-2014 Test Engineer : Allen Yang

Test Equipment List

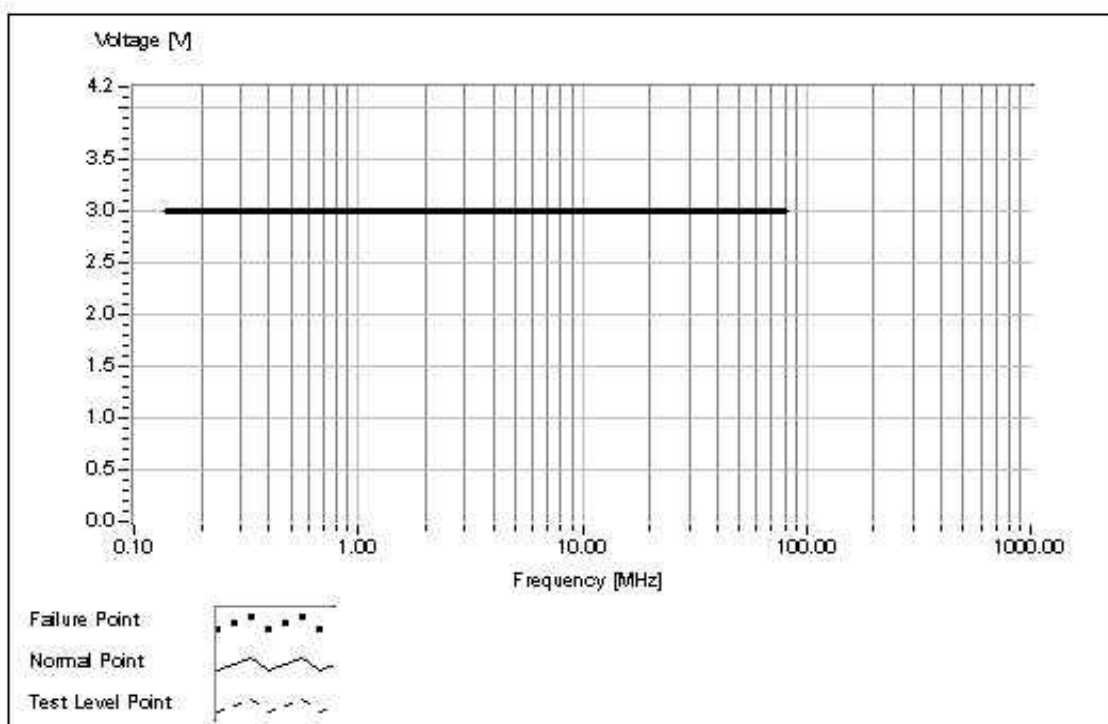
Electrical Fast Transients Test

- Shenzhen CTL Testing Technology Co., Ltd.

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Ultra Compact Simulator	HAEFELY	ECOMPACT4	174887	2015-05-16
Capacitive coupling clamp	HAEFELY	IP4A	000211	2015-05-20

9.4 Conducted Immunity Test

Applicant : LIMBID (CHINA) CO., LIMITED
 Project no. : 65.760.14.080.01
 Model : BID-IR-088
 Description : INTERACTIVE WHITEBOARD, TOUCH SCREEN
 Operating Mode : On
 Serial No. : NIL
☒ Table Top ☐ Floor Stand
 Ambient Temperature (°C) : 23 Relative Humidity (%) : 50 Atmospheric Pressure(mbar) : 1015
 Test regulation : ☐ EN 61000-6-1 ☐ EN 50082-2 ☐ EN 55014-2
☒ EN 55024 ☐ IEC 1000-4-6 ☐ IEC 801-2
☐ EN 61547 ☒ IEC 61000-4-6



Remarks: Signal port.

Result: ☒ Complies ☐ Does not comply ☐ Photo done
 Criterion Required : A Criterion Met : A
 Date : 07-August-2014 Test Engineer : Allen Yang

Test Equipment List

Conducted Immunity Test

- Shenzhen CTL Testing Technology Co., Ltd.

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EM CLAMP	FISCHER CUSTOM COMMUNICATIONS	F-203I-23mm	091536	2015-05-20
Conducted Disturbances test system	SCHLODER	CDG 6000	N/A	2015-05-20
Amplifier	SCHLODER	4N100W-6DB	N/A	2015-05-20

10 Appendix A – Photographs of EUT



General view for BID-IR-088



General view for BID-IR-088

Appendix A



Internal view for BID-IR-088



PCB view for BID-IR-088

Appendix A



PCB view for BID-IR-088



PCB view for BID-IR-088

Appendix A



PCB view for BID-IR-088



PCB view for BID-IR-088

Appendix A



Outlook for LED module



Outlook for LED module