

# EMC COMPLIANCE TEST REPORT

Technical Statement of Conformity in accordance with the council directive 2004/108/EC

# The product

| Equipment Under Test | : RF Three-Axis Field Strength Meter |
|----------------------|--------------------------------------|
| Model Number         | : TM-196                             |
| Product Series       | ÷ N/A                                |
| Report Number        | : HA120056-CE                        |
| Issue Date           | : 08-FEB-2012                        |
| Test Result          | : Compliance                         |

# is produced by TENMARS ELECTRONICS CO., LTD. 6F, 586, RUI GUANG ROAD, NEIHU, TAIPEI TAIWAN



NO.15-1, CWEISHUH KENG, CWEIPIN VILLAGE, LINKOU DIST., NEW TAIPEI CITY, TAIWAN, R. O. C. TEL : +886-2-26030362 FAX : +886-2-26019259 E-mail : hatlab@ms19.hinet.net

BSMI Registration No. : SL2-IN-E-0023, SL2-A1-E-0023, SL2-IS-E-0023, SL2-R1-E-0023, SL2-R2-E-0023, SL2-L1-E-0023 FCC Designation No. : TW1001 Nemko Authorization No. : ELA184 TAF Accreditation No. : 1163 VCCI Registration No. : R-2156, C-2329, T-219 Gard

# **Contents**

| 1   | General Description   | 5  |
|-----|---|----|
| 1.1 | Description of EUT  | 5  |
| 1.2 | Test Instruments  | 6  |
| 1.3 | Auxiliary Equipments  | 8  |
| 1.4 | EUT SETUP   | 8  |
| 1.5 | Identifying the Final Test Mode                                       | 8  |
| 1.6 | Final Test Mode   | 9  |
| 1.7 | Condition of Power Supply   | 9  |
| 1.8 | EUT Configuration   | 9  |
| 1.9 | Qualification of Test Facility  | 9  |
| 2   | Radiated Emission Test  | 10 |
| 2.1 | Test Instruments  | 10 |
| 2.2 | Test Arrangement and Procedure  | 10 |
| 2.3 | Radiated Limit  | 11 |
| 2.4 | Test Result   | 11 |
| 3   | Electrostatic Discharge Immunity Test                                 | 14 |
| 3.1 | Test Instrument   | 14 |
| 3.2 | Test Configuration and Procedure                                      | 14 |
| 3.3 | Test Result   | 15 |
| 4   | Radio-frequency, Electromagnetic Field Immunity Test                  | 16 |
| 4.1 | Test Instruments  | 16 |
| 4.2 | Test Configuration and Procedure                                      | 16 |
| 4.3 | Test Result   | 17 |
| 5   | Photographs of the Tests  | 18 |
| 5.1 | Radiated Emission Test  | 18 |
| 5.2 | Electrostatic Discharge Immunity Test                                 | 19 |
| 5.3 | Radio-frequency, Radio-frequency, Electromagnetic Field Immunity Test | 19 |
| 6   | Photographs of the EUT  | 20 |

| Applicant  | :                                  | TENMARS ELECTRONICS CO., LTD.                    |  |  |
|--|------------------------------------|--|--|--|
| Address of Applicant   | :                                  | 6F, 586, RUI GUANG ROAD, NEIHU, TAIPEI<br>TAIWAN |  |  |
| Manufacturer   | :                                  | TENMARS ELECTRONICS CO., LTD.                    |  |  |
| Address of Manufacturer  | :                                  | 6F, 586, RUI GUANG ROAD, NEIHU, TAIPEI<br>TAIWAN |  |  |
| Equipment Under Test   | RF Three-Axis Field Strength Meter |  |  |  |
| Model Number   | er : <u>TM-196</u>                 |  |  |  |
| Product Series   | : N/A                              |  |  |  |
| Sample Received Date   | te : 31-JAN-2012                   |  |  |  |
| Test Standard  | :                                  |  |  |  |
| Emission :<br>EN 61326-1:2006<br>Class B<br>EN 55011:2009/A1:2010<br>Group 1 Class B |                                    | Immunity :                                       |  |  |
| Deviations from standard test r  | net                                | hods & any other specifications : NONE           |  |  |

# Verification

#### Remark :

This report details the results of the test carried out on one sample. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co. Ltd.

Joe Chen.

Documented by :

**ZOE CHEN / ADM. Dept Staff** 

Tested by :

M.5.,5hi

M.S.SHI / ENG. Dept. Staff

Approved by :

**Peter Chin/ Section Manager** 

2012-02-08

Date :

Remark

|                    | S         | ummary      | of Test Resu        |
|--------------------|-----------|-------------|---------------------|
| Emission Class     | В         |             |                     |
| Test Standard      | Test Item | Test Result |                     |
|                    |           |             | Highest Emission:   |
| CISPR11            |           |             | Vertical: 84.46 MHz |
|                    | Radiated  | Compliance  | 24.41 dBuV (Peak),  |
| Group 1<br>Class B | Emission  | Compliance  | Margin -5.59 dB,    |
| Class D            |           |             |                     |

# esult

Antenna Height 100 cm,

Turntable Angle 85°.

| Immunity      |                         |                      |                          |             |  |  |
|---------------|-------------------------|----------------------|--------------------------|-------------|--|--|
| Test Standard | Test Item               | Performance Criteria | Observed Result<br>Class | Test Result |  |  |
| EN61000-4-2   | Electrostatic Discharge | В                    | В                        | Compliance  |  |  |
| EN61000-4-3   | Radiated Susceptibility | А                    | A                        | Compliance  |  |  |

# HongAn TECHNOLOGY CO., LTD. 1

# 1.1 Description of EUT

| Equipment Under Test | : | RF Three-Axis Field Strength Meter   |  |  |
|----------------------|---|--|--|--|
| Model Number of EUT  | : | TM-196   |  |  |
| Product Series       | : | N/A  |  |  |
| Power Supply         | - | DC:Input <u>9</u> Vdc<br>Power Cord <u>2</u> Pin<br>□Shielded ⊠Non-Shielded<br>□Detachable, _m ⊠Un-Detachable, <u>0</u> m<br>□w Ferrite Core ⊠w/o Ferrite Core |  |  |
| I/O Port             | : | Antenna Port*1   |  |  |
| Data Cable           | : | N/A  |  |  |
| Specification        |   | Position : I Table-top / I Floor-standing<br>Dimensions(mm) : 270(L) X 80 (W) X 30(H)<br>※For more detail specification, please refer to the User Manual.      |  |  |

# 1.2 Test Instruments

# 1.2.1. Instruments Used for Emission Measurement

| Instrument<br>Name                          | Manufacture<br>Mode                   | Model<br>Number    | Serial<br>Number | Last Cal.<br>Date | Next Cal.<br>Date | Test Item                                       |
|---|---------------------------------------|--------------------|------------------|-------------------|-------------------|---|
| LISN  | EMCO                                  | 3810/2NM           | 9702-1820        | 30-Sep-2011       | 29-Sep-2012       | Conducted<br>Emission                           |
| LISN  | Rolf Heine<br>Hochfrequenz<br>technik | NNB-4/32T          | 00001            | 17-FEB-2011       | 17-FEB-2012       | Conducted<br>Emission                           |
| RF Current<br>Probe                         | FCC                                   | F-33-4             | 53               | 02-MAY-2011       | 01-MAY-2012       | Conducted<br>Emission                           |
| Impedance<br>Stabilization<br>Network (ISN) | SCHAFFNER                             | ISN T400           | 16832            | 08-OCT-2011       | 08-OCT-2012       | Conducted<br>Emission                           |
| EMI Test Signal<br>Analyzer                 | PMM                                   | PMM 9000           | 4410J10302       | 05-AUG-2011       | 04-AUG-2012       | Conducted<br>Emission,<br>Radiation<br>Emission |
| Spectrum<br>Analyzer                        | ADVANTEST                             | R3172              | 101202158        | 15-AUG-2011       | 14-AUG-2012       | Radiated<br>Emission                            |
| Preamplifier                                | CHASE                                 | CPA 9231A          | 3310             | 08-JUL-2011       | 07-JUL-2012       | Radiated<br>Emission                            |
| Preamplifier                                | HD                                    | HD17187            | 004              | 23-AUG-2011       | 22-AUG-2012       | Radiated<br>Emission                            |
| Bilog Antenna                               | CHASE                                 | CBL 6112B          | 2860             | 17-AUG-2011       | 16-AUG-2012       | Radiated<br>Emission                            |
| Large Loop<br>Antenna                       | LAPLACE                               | RF300              | 9048             | 26-JAN-2009       | 26-JAN-2012       | Radio<br>Disturbance                            |
| Double-Ridged<br>Waveguide<br>Horn          | EMCO                                  | 3115               | 9912-5992        | 02-MAY-2011       | 01-MAY-2012       | Radiated<br>Emission                            |
| Harmonics<br>/Flicker Module                | EMC<br>PARTNER                        | Harmonics-10<br>00 | HAR1000-38       | 25-FEB-2011       | 25-FEB-2012       | Harmonics                                       |

\* The test equipments used are calibrated and can be traced to National ITRI and International Standards.

### 1.2.2. Instruments Used for Immunity Measurement

| Instrument<br>Name                                 | Manufacture<br>Mode | Model<br>Number    | Serial<br>Number | Last Cal.<br>Date | Next Cal.<br>Date | Test Item                             |
|--|---------------------|--------------------|------------------|-------------------|-------------------|---------------------------------------|
| ESD Simulator                                      | KeyTek              | MZ-15/EC           | 9805460          | 12-JUL-2011       | 11-JUL-2012       | ESD                                   |
| Power<br>Generator,<br>Mains Coupler/<br>Decoupler | KeyTek              | EMC Pro            | 0002255          | 02-MAR-2011       | 01-MAR-2012       | EFT. Surge,<br>Magnetic<br>Field, Dip |
| Wide Band<br>Amplifier                             | ifi                 | CMX50              | D019-0200        | 25-FEB-2011       | 25-FEB-2012       | RS                                    |
| RF Amplifier                                       | ar                  | 15S1G3             | 306578           | 02-AUG-2011       | 02-AUG-2012       | RS                                    |
| Double-Ridged<br>Waveguide<br>Horn                 | EMCO                | 3115               | 9912-5992        | 02-MAY-2011       | 01-MAY-2012       | RS                                    |
| Signal<br>Generator                                | HP                  | HP8648C            | 3623A03457       | 19-JAN-2011       | 19-JAN-2012       | RS                                    |
| Bilog Antenna                                      | EMCO                | 3142               | 9710-1221        | 11-JAN-2011       | 11-JAN-2012       | RS                                    |
| CDN  | FCC                 | FCC-801-M3-<br>32A | 2019             | 19-JAN-2011       | 19-JAN-2012       | CS                                    |
| CDN  | FCC                 | FCC-801-M3-<br>32A | 20116            | 19-JAN-2011       | 19-JAN-2012       | CS                                    |
| EM Injection clamp                                 | FCC                 | F-2031-23mm        | 337              | 24-JAN-2011       | 24-JAN-2012       | CS                                    |

% The test equipments used are calibrated and can be traced to National ITRI and International Standards.

# 1.3 Auxiliary Equipments

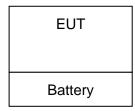
| 1.3.1. | Provided by HongAn | Technology Co., Ltd. | for Immunity Test. |
|--------|--------------------|----------------------|--------------------|
|--------|--------------------|----------------------|--------------------|

| No. | Faultament | Model No. Serial No. EMC Approved Brand Description |            | ription |       |            |             |
|-----|------------|---|------------|---------|-------|------------|-------------|
| NO. | Equipment  | Woder No.   | Serial NO. |         | Branu | Data Cable | Power Cable |
| N/A | N/A        | N/A   | N/A        | N/A     | N/A   | N/A        | N/A         |

#### 1.3.2. Provided by the Manufacturer.

|     |           |           |            | EMC |     | Descr      | iption      |
|-----|-----------|-----------|------------|-----|-----|------------|-------------|
| No. | Equipment | Model No. | Serial No. | -   |     | Data Cable | Power Cable |
| N/A | N/A       | N/A       | N/A        | N/A | N/A | N/A        | N/A         |

# 1.4 EUT SETUP



Note:

1. Main Test Sample: TM-196

The series products were not tested.

2. I/O Port Setup

| Type of Port | Total Q'ty | Test Status |
|--------------|------------|-------------|
| Antenna Port | 1          | Operating 1 |

3. Legend:

| UUD | : Undetachable Unshielded Data cable.  | UUP : Undetachable Unshielded Power cord. |
|-----|--|---|
| USD | : Undetachable Shielded Data cable.  | USP : Undetachable Shielded Power cord.   |
| DSD | End of the second secon | DUP : Detachable Unshielded Power cord.   |
| DUD | : Detachable Unshielded Data cable.  | DSP : Detachable Shielded Power cord.     |
| UTP | : Unshielded Data Twisted Pair Cable.  | STP : Shielded Data Twisted Pair Cable.   |

# 1.5 Identifying the Final Test Mode

1. Operation Mode 1: Operation mode.

Note: After pre-test, we identified that the Operation Mode 1(the worst case) was most likely to cause maximum disturbance and most likely to be susceptible to disturbance. Therefore, the Final EMC Assessment was performed for the worst case. All pre-test data show at appendix.

# 1.6 Final Test Mode

Operation Mode 1: Operation mode.

# **1.7 Condition of Power Supply**

DC<u>9</u>V

# **1.8 EUT Configuration**

- 1. Setup the EUT as shown in Sec.1.4 Block Diagram.
- 2. Turn on the power of all equipments.
- 3. Activate the selected Final Test Mode.

# 1.9 Qualification of Test Facility

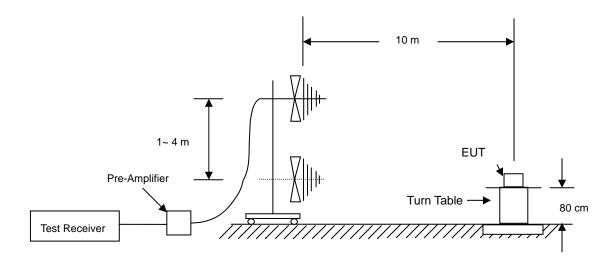
| BSMI Certificate No.    | SL2-IS-E-0023, SL2-IN-E-0023, SL2-R1-E-0023, SL2-R2-E-0023,<br>SL2-A1-E-0023, SL2-L1-E-0023. |
|-------------------------|--|
| FCC Designation No.     | : TW1001   |
| Nemko Authorization No. | : ELA 184  |
| TAF Accreditation No.   | : 1163   |
| VCCI Certificate No.    | : R-2156, C-2329, T-219  |

# 2 Radiated Emission Test

### 2.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

### 2.2 Test Arrangement and Procedure



#### Table-top Equipment

- The EUT was place on a non-conductive turntable which was 80 cm above the horizontal ground plane. The EUT was set 10 m away from the receiving antenna that was mounted on a non-conductive mast.
- Main cables draped to the ground plane and were routed to the mains power outlet.
   The mains power outlet was bonded to and did not protrude above the ground plane.
- The antenna was adjusted between 1 m and 4 m in height above the ground plane and the Antenna-to-EUT azimuth was also varied during the measurements to find the top 6 maximum meter readings within the frequency range limit as indicated in Sec 2.3.
- The radiated emissions were measured when the Antenna-to-EUT polarization was set horizontally and vertically.
- The values were recorded.

# 2.3 Radiated Limit

#### CISPR11

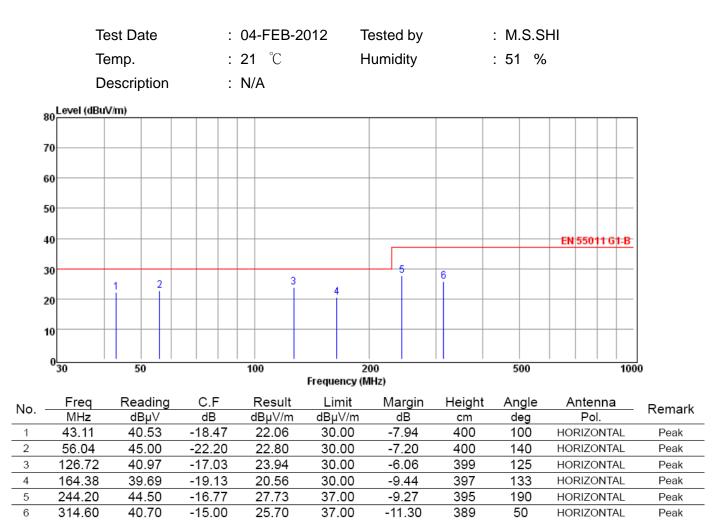
| Frequency (MHz) | □Class A Group 1 (10m) | ⊠Class B Group 1 (10m) |
|-----------------|------------------------|------------------------|
|                 | Quasi-Peak (dBµV/m)    | Quasi-Peak (dBµV/m)    |
| 0.15-30         | Under Consideration    | Under Consideration    |
| 30-230          | 40                     | 30                     |
| 230-1000        | 47                     | 37                     |

# 2.4 Test Result

# Compliance.

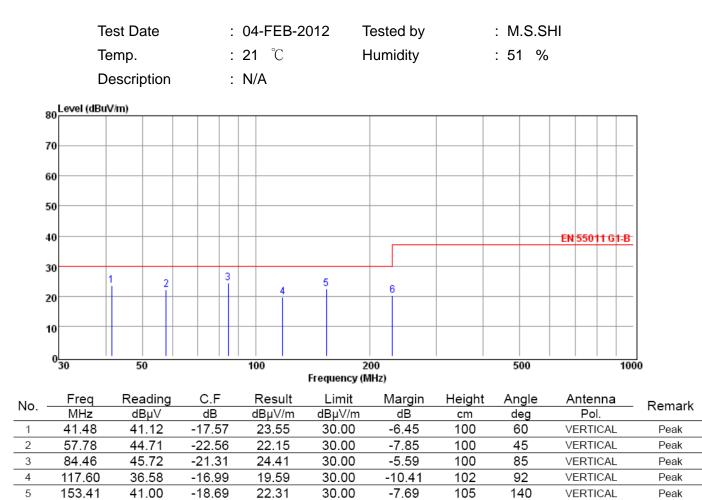
The final test data are shown on the following page(s).

#### **Radiated Emission Test Data - Horizontal**



- > Negative number in the margin column indicates the amount (in dB) that the recorded emission is Below the limit.
- V means in Vertical Antenna Polarization, H means in Horizontal, and QP means in Quasi-Peak.
- Corrected Factor =Insertion loss (Antenna Factor) + Cable loss.
- Corrected Reading = Reading + Corrected Factor.
- Margin limit = Correction Reading limit value.

### **Radiated Emission Test Data - Vertical**



> Negative number in the margin column indicates the amount (in dB) that the recorded emission is Below the limit.

108

-9.76

133

VERTICAL

Peak

30.00

> V means in Vertical Antenna Polarization, H means in Horizontal, and QP means in Quasi-Peak.

20.24

Corrected Factor =Insertion loss (Antenna Factor) + Cable loss.

-18.54

Corrected Reading = Reading + Corrected Factor.

Margin limit = Correction Reading - limit value.

38.78

230.00

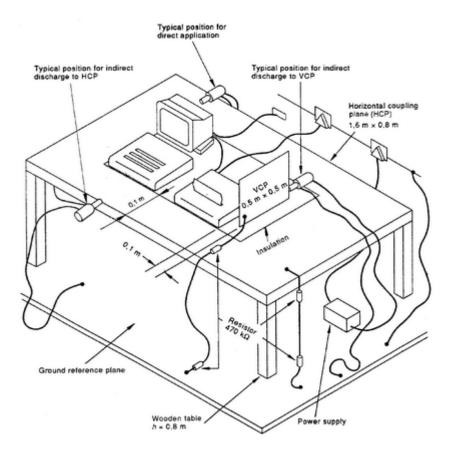
6

# 3 Electrostatic Discharge Immunity Test

#### 3.1 Test Instrument

Refer to Sec. 1.2 Test Instruments.

# 3.2 Test Configuration and Procedure



#### Table-top Equipment

- The EUT was located on a 0.8 m high wooden table standing on the ground reference plane with a 1.6 \* 0.8 m horizontal coupling plane on the top. The EUT and cables was isolated from the coupling plane by an insulating support 0.5 mm thick.
- In Contact Discharge, the EUT was exposed to minimum 200 discharges, 10 each at negative and positive polarity on the selected test points ( the selected test points were marked with red labels on the EUT )
- In Air Discharge, the EUT exposed to minimum of 10 single discharges on the selected test points.
- The result was observed and analyzed.



#### 3.3 Test Result

| Test Date   | : 04  | - FEB - 2012 | Tested By            | : M.S. SHI |  |
|-------------|-------|--------------|----------------------|------------|--|
| Temp.       | : 22  | °C           | Pressure In Bar      | :1013 mB   |  |
| Humidity    | : 50  | %            | Test Condition Mains | : 9VDC     |  |
| Description | : N/A |              |                      |            |  |

# Basic Standard : EN 61000-4-2

| Level.      |       |                   |             |               |                   |  |
|-------------|-------|-------------------|-------------|---------------|-------------------|--|
| Customer    |       | Contact Discharge | Customer    | Air Discharge |                   |  |
| Apply to    | Level | Test Voltage (KV) | Apply to    | Level         | Test Voltage (KV) |  |
|             | 1     | ± 2               |             | 1             | ± 2               |  |
| $\boxtimes$ | 2     | ± 4               | $\boxtimes$ | 2             | ± 4               |  |
|             | 3     | ± 6               |             | 3             | ± 8               |  |
|             | 4     | ± 8               |             | 4             | ± 15              |  |

Test Data.

**By Product Standard : EN 61326-1**, Performance Criteria : A B C D Direct Discharge.

| Test Point on EUT      | Polarity | Test Voltage<br>(KV) |      | Performan<br>(obse | ce Criteria<br>erved) | Result  |     |  |
|------------------------|----------|----------------------|------|--------------------|-----------------------|---------|-----|--|
|                        |          | Contact              | Air  | Contact            | Air                   | Contact | Air |  |
| Surface of case        | +        | 2, 4                 | 2, 4 | В                  | В                     | P       | Р   |  |
| Surface of case        | —        | 2, 4                 | 2, 4 | В                  | В                     | Р       | Р   |  |
| Junction of case       | +        | 2, 4                 | 2, 4 | В                  | В                     | Р       | Р   |  |
| Junction of case       | —        | 2, 4                 | 2, 4 | В                  | В                     | Р       | Р   |  |
| ALL I/O Port & Bracket | +        | 2, 4                 | 2, 4 | В                  | В                     | P       | Р   |  |
|                        | —        | 2, 4                 | 2, 4 | В                  | В                     | Р       | Р   |  |

Indirect Discharge.

| Test Point on EUT         | Polarity  | Test Voltage<br>(KV) |      | Performan<br>(obse | ce Criteria<br>rved) | Result |     |  |
|---------------------------|---|----------------------|------|--------------------|----------------------|--------|-----|--|
|                           | -   | VCP                  | HCP  | VCP                | Н́СР                 | VCP    | HCP |  |
| Front                     | +   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Front                     | -   | 2, 4                 | 2, 4 | В                  | в                    | Р      | Р   |  |
| Deer                      | +   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Rear                      | _   | 2, 4                 | 2, 4 | В                  | в                    | Р      | Р   |  |
| 1.5#                      | +   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Left                      | _   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Diaht                     | +   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Right                     | _   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Bottom                    | +   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
|                           | -   | 2, 4                 | 2, 4 | В                  | В                    | Р      | Р   |  |
| Dorformanaa Critaria (aba | Portermanae Criteria (cheenyed) : [A] magne "No loss of function " [D] magne " Solf restoring " |                      |      |                    |                      |        |     |  |

Performance Criteria (observed) : [A] means "No loss of function "

[A] means " No loss of function "
[C] means " Reset by operator "

[B] means " Self-restoring [D] means " Damage "

Result

Test Result

: [P] means " Pass "

: 🛛 Compliance

: [N/A] means "Not Tested"

Noncompliance

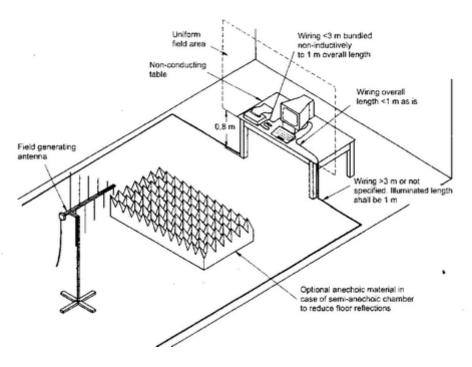
[F] means " Fail "

# 4 Radio-frequency, Electromagnetic Field Immunity Test

#### 4.1 Test Instruments

Refer to Sec. 1.2 Test Instruments.

### 4.2 Test Configuration and Procedure



#### Table-top Equipment

- The field calibration was executed to create a uniform field area (UFA), 3 m away from the antenna, to ensure the validity of the test results.
- The EUT was placed on a non-conductive table 0.8 m high in the UFA.
- The EUT was then connected to power and signal wires according to relevant installation instruction.
- The EUT was positioned so that the four sides of the EUT were exposed to the electromagnetic field in sequence. In each position, the performance of the EUT was investigated and monitored by a CCD camera..



### 4.3 Test Result

| Test Date   | : 04  | - FEB - | 2012 | Tested By            | : | M.S. SH |    |
|-------------|-------|---------|------|----------------------|---|---------|----|
| Temp.       | : 22  | °C      |      | Pressure In Bar      | : | 1013    | mB |
| Humidity    | : 48  | %       |      | Test Condition Mains | : | 9VDC    |    |
| Description | : N/A |         |      |                      |   |         |    |

# Basic Standard : EN 61000-4-3

| Level.           |                    |             |                            |    |  |
|------------------|--------------------|-------------|----------------------------|----|--|
|                  | Customer Apply to  | Lovel       | Test field strength ()//m) |    |  |
| 80 to 1000 (MHz) | 1400 to 2000 (MHz) | Level       | Test field strength (V/m)  |    |  |
|                  |                    | $\boxtimes$ | 1                          | 1  |  |
| $\boxtimes$      | $\square$          |             | 2                          | 3  |  |
|                  |                    |             | 3                          | 10 |  |

Test Data.

# By Product Standard : EN 61326-1, Performance Criteria : A B B C D Modulation : 1KHz, AM 80% sinusoidal.

|                          | Table Desition          | Field<br>(V/m) | Performance Criteria (observed).<br>Antenna Polarization |                   | Result                       |           |  |
|--------------------------|-------------------------|----------------|--|-------------------|------------------------------|-----------|--|
| Frequency Range<br>(MHz) | Table Position<br>( ° ) |                |  |                   |                              |           |  |
| (101112)                 | ( )                     | (0/11)         | Horizontal.  | Vertical.         | Horizontal.                  | Vertical. |  |
| 80 to 1000               | 0                       | 3              | A  | A                 | Р                            | Р         |  |
| 80 to 1000               | 90                      | 3              | A  | A                 | Р                            | Р         |  |
| 80 to 1000               | 180                     | 3              | A  | A                 | Р                            | Р         |  |
| 80 to 1000               | 270                     | 3              | A  | A                 | Р                            | Р         |  |
| 1400 to 2000             | 0                       | 3              | A  | A                 | Р                            | Р         |  |
| 1400 to 2000             | 90                      | 3              | A  | A                 | Р                            | Р         |  |
| 1400 to 2000             | 180                     | 3              | A  | A                 | Р                            | Р         |  |
| 1400 to 2000             | 270                     | 3              | A  | A                 | Р                            | Р         |  |
| 2000 to 2700             | 0                       | 1              | A  | A                 | Р                            | Р         |  |
| 2000 to 2700             | 90                      | 1              | A  | A                 | Р                            | Р         |  |
| 2000 to 2700             | 180                     | 1              | A  | A                 | Р                            | Р         |  |
| 2000 to 2700             | 270                     | 1              | A  | A                 | Р                            | Р         |  |
| Performance Criter       | ia (observed) :         | [A] mear       | ns " No loss of fund                                     | ction " [B] means | [B] means " Self-restoring " |           |  |

Result

: [C] means " Reset by operator "

[D] means " Damage " [F] means " Fail "

: [P] means " Pass "

: [N/A] means "Not Tested"

Test Result

: 🛛 Compliance

Noncompliance

# HongAn TECHNOLOGY CO., LTD. Photographs of the Tests 5

#### 5.1 **Radiated Emission Test**



Front View



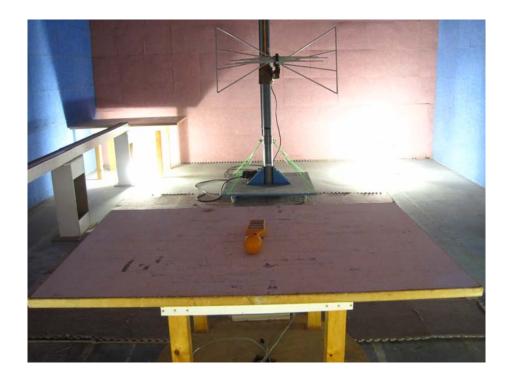
Rear View

# 5.2 Electrostatic Discharge Immunity Test

HongAn TECHNOLOGY CO., LTD.



5.3 Radio-frequency, Radio-frequency, Electromagnetic Field Immunity Test



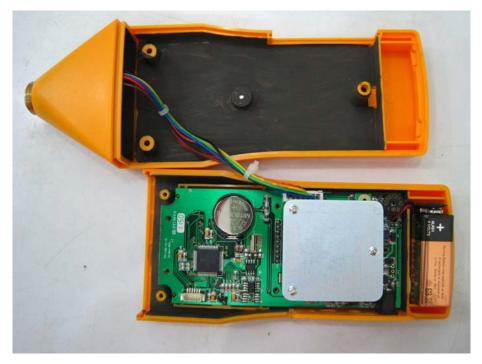
# HongAn TECHNOLOGY CO., LTD. Photographs of the EUT 6



Front View of the EUT



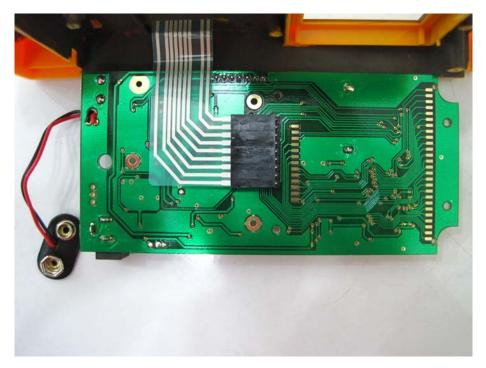
Rear View of the EUT



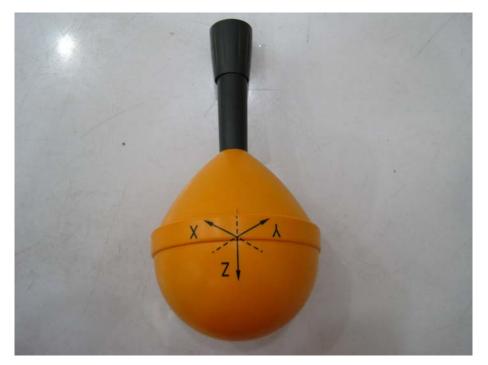
Inside View of the EUT 1



Front View of the PCB



Rear View of the PCB



View of the EUT Sensor



View of the Battery