

<b>Prüfbericht-Nr.:</b> <i>Test Report No.:</i>	CN21KFI0 001	<b>Auftrags-Nr.:</b> <i>Order No.:</i>	190130973	Seite 1 von 22 <i>Page 1 of 22</i>
<b>Kunden-Referenz-Nr.:</b> <i>Client Reference No.:</i>	N/A	<b>Auftragsdatum:</b> <i>Order date:</i>	2021-01-14	
<b>Auftraggeber:</b> <i>Client:</i>	China Daheng Group, Inc. 15F Daheng Science & Technology Tower, No. 3 Suzhou Street, Haidian District Beijing 100080 P.R. China			
<b>Prüfgegenstand:</b> <i>Test item:</i>	Industry Camera			
<b>Bezeichnung / Typ-Nr.:</b> <i>Identification / Type No.:</i>	Refer to clause 2.2			
<b>Auftrags-Inhalt:</b> <i>Order content:</i>	CE EMC			
<b>Prüfgrundlage:</b> <i>Test specification:</i>	EN 55032:2012, EN 55032:2015, EN 55035:2017+A11			
<b>Wareneingangsdatum:</b> <i>Date of receipt:</i>	2021-01-14			
<b>Prüfmuster-Nr.:</b> <i>Test sample No.:</i>	Engineering sample			
<b>Prüfzeitraum:</b> <i>Testing period:</i>	2021-03-10 to 2021-03-11			
<b>Ort der Prüfung:</b> <i>Place of testing:</i>	Refer to section 1.1			
<b>Prüflaboratorium:</b> <i>Testing laboratory:</i>	Refer to section 1.1			
<b>Prüfergebnis*:</b> <i>Test result*:</i>	Pass			
<b>geprüft von:</b> <i>tested by:</i>	Eugene Liu <i>Eugene Liu</i>	<b>kontrolliert von:</b> <i>reviewed by:</i>	Wang, Gang	
<b>Datum:</b> <i>Date:</i>	Xue, Yunfei	<b>Datum:</b> <i>Date:</i>	2021-04-26	
<b>Stellung / Position:</b>	Trainee, PE	<b>Stellung / Position:</b>	TC	
<b>Sonstiges / Other:</b> Manufacturer or/and his importer shall ensure product bears label requirements in article 7 and article 9 of the 2014/30/EU relate to name, batch number, post address prior place the product into EU market.				
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> <i>Condition of the test item at delivery:</i>		Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>		
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend N/A = nicht anwendbar	4 = ausreichend N/T = nicht getestet
Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory N/A = not applicable	4 = sufficient N/T = not tested
<b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b> <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

v05

## TEST SUMMARY

- 4.1.1 DISTURBANCE VOLTAGE ON AC MAINS PORT AND TELECOMMUNICATION PORT  
*Result:*  
N/A
- 4.2.1 RADIATED EMISSION  
*Result:*  
Pass
- 5.1.1 ELECTROSTATIC DISCHARGE  
*Result:*  
Pass
- 5.1.2 RF ELECTROMAGNETIC FIELD IMMUNITY TEST  
*Result:*  
Pass
- 5.1.3 POWER FREQUENCY MAGNETIC FIELD  
*Result:*  
N/A
- 5.2.1 FAST TRANSIENTS ON AC POWER LINE AND ANALOGUE/DIGITAL DATA LINE  
*Result:*  
Pass
- 5.2.2 INJECTED CURRENT INTO AC POWER LINE AND ANALOGUE/DIGITAL DATA LINE  
*Result:*  
Pass
- 5.2.3 SURGES TO AC POWER PORT AND ANALOGUE/DIGITAL DATA PORT  
*Result:*  
N/A
- 5.2.4 VOLTAGE DIPS AND INTERRUPTIONS TO AC POWER PORT  
*Result:*  
N/A

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# 1 Test Sites

## 1.1 Test Facilities

**Laboratory: CHEARI (Beijing) Certification & Testing Co., Ltd.**  
**Address: No.3, Boxing Balu, Beijing Economic & Technological Development Area,**  
**Beijing, China**

The used test equipment is in accordance with CISPR 16-1 for measurement of radio interference.

## 1.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

**Lab 1: (Electrostatic Discharge, Injected Current into Signal Port, Fast Transients into Signal Port, Radiated emission, RF electromagnetic field immunity test)**

Equipment	Manufacturer	Model	Serial no. / Inventory no.	Cal. due date
EMI Receiver	R&S	ESCI7 (9kHz-7GHz)	0304826-03	2022-11-12
Bi-log Antenna	R&S	HL562 (30MHz-3GHz)	0304826-06	2022-11-17
Horn antenna	R&S	HF907 (1GHz-18GHz)	0304826-07	2022-10-14
Signal generator	R&S	SMB100A	0304827-02	2022-10-21
Power meter	R&S	NRP2	0304827-03	2022-11-16
Bi-con antenna	R&S	HL046E(80MHz-3GHz)	0304807-06	/
Horn antenna	R&S	SWB-STLP9149 ((0,6) 0,7 – 9 (10,5) GHz)	0304827-07	/
Test system for conducted immunity	TESEQ	NSG4070	03047393	2021-12-17
Coupling Network	EM TEST	CDN-M3	0311037-02	2022-03-28
Attenuator	EM TEST	ATT6	0311037-01	2022-03-28
EFT signal generator	TESEQ	NSG 3040	0304770	2022-03-29
Coupling Decoupling Network	TESEQ	CDN 3063	0304770	2022-03-29
Capacitive Coupling Clamp	TESEQ	CDN 3425/INA 3825	0304770-01	----

## 2 General Product Information

### 2.1 Product Function and Intended Use

The EUT (equipment under test) are industry cameras. For further information, refer to the user's manual.

### 2.2 Ratings and System Details

Type	:	MER2-502-79U3C	MER2-301-125U3M	MER2-507-60U3C-L
		MER2-502-79U3M	MER2-231-41U3C	MER2-507-60U3M
		MER2-502-79U3C-L	MER2-231-41U3C-L	MER2-507-60U3M-L
		MER2-502-79U3M-L	MER2-231-41U3M	MER2-506-60U3C
		MER2-2000-19U3C	MER2-231-41U3M-L	MER2-506-60U3C-L
		MER2-2000-19U3C-L	MER2-230-168U3C	MER2-506-60U3M
		MER2-2000-19U3M	MER2-230-168U3C-L	MER2-506-60U3M-L
		MER2-2000-19U3M-L	MER2-230-168U3M	MER2-503-36U3M POL
		MER2-503-36U3C-L	MER2-230-168U3M-L	MER2-630-60U3C-W90
		MER2-503-36U3M	MER2-041-436U3C	MER2-630-60U3M-W90
		MER2-503-36U3M-L	MER2-041-436U3C-L	MER2-2000-19U3C-W90
		MER2-301-125U3C	MER2-041-436U3M	MER2-2000-19U3M-W90
		MER2-301-125U3C-L	MER2-041-436U3M-L	MER2-1220-32U3M-W90
		MER2-301-125U3M-L	MER2-160-227U3C	MER2-1220-32U3C-W90
		MER2-630-60U3C	MER2-160-227U3C-L	ME2P-1230-23U3C
		MER2-630-60U3C-L	MER2-160-227U3M	ME2P-1230-23U3M
		MER2-630-60U3M	MER2-160-227U3M-L	ME2P-2621-15U3C
		MER2-630-60U3M-L	MER2-302-56U3C	ME2P-2621-15U3M
		MER2-1220-32U3C	MER2-302-56U3C-L	ME2P-2621-15U3M NIR
		MER2-1220-32U3C-L	MER2-302-56U3M	ME2P-500-14U3M
		MER2-1220-32U3M	MER2-302-56U3M-L	MARS-1230-23U3C
		MER2-1220-32U3M-L	MER2-502-79U3C-512MB	MARS-1230-23U3M
		MER2-503-36U3C	MER2-507-60U3C	MARS-1231-32U3C
		MARS-1231-32U3M	MARS-880-32U3C	MARS-880-32U3M
		MARS-882-44U3C	MARS-882-44U3M	MARS-4630-8U3C
		/	/	MARS-4630-8U3M

System input voltage	:	DC5V
Power	:	<4W@DC5V
Class	:	A
Protection class	:	III

Identities and difference:

All EMC test items were performed on MER2-231-41U3C-L.

Series	Differences between Models in Series	Differences in Series
MER2-U3	1.The model difference of MER2-U3-W90 series is the same as MARS-U3.	The difference between four series: 1. The schematic diagram is basically the same, the main chip FPGA is different. The FPGA is from the same manufacturer, for the same series, the process, speed, and power consumption parameters are the same, but the chip capacity and package size are different. 2. PCB diagram is different. The board size and wiring is different according to customer needs. 3. The housing and mechanical dimensions are different. 4. The characteristics of the peripheral interface are the same.
MER2-U3-W90	1.The model difference of MER2-U3-W90 series is the same as MARS-U3.	
ME2P-U3	1.The model difference of ME2P-U3 series is the same as MARS-U3.	
MARS-U3	1. MARS-U3 Series: Including three PCB (IO FPC, BE PCB and sensor PCB). BE PCB is flex-rigid PCB. 2. Only the sensor PCB is different between each model in the series: Different models use different sensor, resulting in different PCB layout and wiring. The other parts are exactly the same.	

### 2.3 Independent Operation Modes

The basic operation modes are:

On: acquisition process in continuous mode

Off.

### 2.4 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

### 2.5 Submitted Documents

Nameplate.

User's manual, and Circuit diagram, PCB layout, BOM.

## 3 Test Set-up and Operation Modes

### 3.1 Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

**Immunity:** The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

### 3.2 Physical Configuration for Testing

Refer to the related paragraph of this report.  
The test was performed at the status of DC5V.

### 3.3 Test Operation and Test Software

Refer to the related paragraph of this report.  
The software “GalaxyView” was used.

### 3.4 Special Accessories and Auxiliary Equipment

No.	Name	Model	Manufactory
1	LCD monitor	LS24D360	SAMSUNG
2	Personal computer	/	/

### 3.5 Countermeasures to achieve EMC Compliance

None.

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## **4 Test Results EMISSION**

### **4.1 Emission in the Frequency Range up to 30 MHz**

#### **4.1.1 Disturbance Voltage on AC mains port and Telecommunication port**

**Result:**

**N/A**

The EUT cannot connect the public mains supply directly, therefore no test was needed on the AC mains supply.

The EUT does not have the telecommunication port, therefore no test is needed on the telecommunication port.

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## 4.2 Emission in the Frequency Range above 30 MHz

### 4.2.1 Radiated emission

**Result:**

**Pass**

Date of testing : 2021-03-10  
Test procedure : EN 55032:2012, EN 55032:2015 and CISPR 16-1  
Product category : Class A  
Frequency range : 30 – 1000MHz  
Limits : 30-230MHz, 50dB $\mu$ V/m with 3m test distance;  
230-1000MHz, 57dB $\mu$ V/m with 3m test distance.

Kind of test site : Semi-anechoic chamber  
Operation mode : On

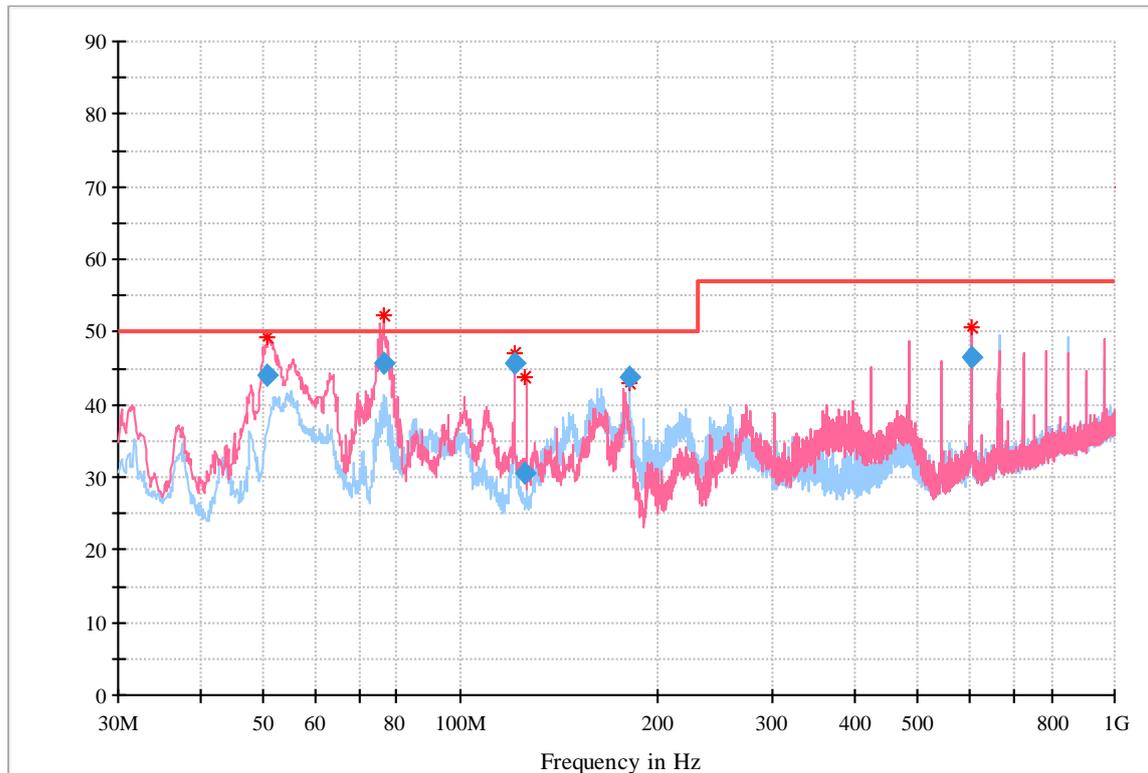
The measurement setup was made according to EN 55032:2012 and EN 55032:2015.

The test equipment listed in 1.1, table 1 of this report are as specified in CISPR 16-1.

The EUT was placed on a turntable. The turntable can turn in 360°. A log periodic antenna is fixed 3m from boundary of EUT.

During the test, the turntable was rotated fully with a measurement antenna oriented for both horizontal and vertical polarisation. The antenna was adjusted between 1m and 4m in height above the ground plane to find the max disturbance.

**Figure 1: Spectral diagrams and measurement results 30-1000MHz, Horizontal and Vertical**

 Level in dB $\mu$ V/m


Final quasi-peak measurement result:

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Average (dB $\mu$ V/m)	MaxPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol
50.775000	43.92	--	--	50.00	6.08	1000.0	120.000	99.9	V
76.680000	45.64	--	--	50.00	4.36	1000.0	120.000	200.0	V
121.018000	45.81	--	--	50.00	4.19	1000.0	120.000	99.9	V
125.152500	30.42	--	--	50.00	19.58	1000.0	120.000	99.9	V
181.481250	43.74	--	--	50.00	6.26	1000.0	120.000	100.0	H
605.007750	46.40	--	--	57.00	10.60	1000.0	120.000	99.9	V

## 5 Test Results IMMUNITY

During the immunity tests, the EUT was operated under conditions specified by clause 3.1 of this report.

Performance according to EN 55035:2017+A11:

Performance criterion A:

The equipment shall continue to operate as intended without operator intervention. No degradation of performance, loss of function or change of operating state is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance. 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 by what the user may reasonably expect from the equipment if used as intended.

Performance criterion B:

During the application of the disturbance, degradation of performance is allowed. However, no unintended change of actual operating state or stored data is allowed to persist after the test. After the test, the equipment shall continue to operate as intended without operator intervention; no degradation of performance or loss of function is allowed, below a performance level specified by the manufacturer, when the equipment is used as intended.

The performance level may be replaced by a permissible loss of performance.

If the minimum performance level (or the permissible performance loss), or recovery time, is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.

Performance criterion C:

Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. A reboot or re-start operation is allowed.

Information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

## 5.1 Enclosure

### 5.1.1 Electrostatic Discharge

**Result:**

**Pass**

The immunity against electrostatic discharge was tested in accordance with EN 55035:2017+A11. Test setup and ESD-Generator are according to IEC 61000-4-2:2008 which is specified by EN 55035:2017+A11.

The EUT is placed on 0.8m wood table above the ground plane. And the minimum distance between the EUT and all other conductive structures except the ground plane beneath the EUT is more than 0.5m.

The reference ground plane is an aluminum sheet of 0.25mm minimum thickness. The reference ground plane is connected to the protective earth. The size of the ground plane is 2m x 2m.

A horizontal coupling plane (HCP) 1.6m x 0.8m, placed on the table and isolates the EUT 0.5mm thick. Vertical coupling plane (VCP) of dimensions 0.5m x 0.5m is placed parallel to and positioned at a distance of 0.1m from the EUT.

Date of testing : 2021-03-11  
 Test procedure : IEC 61000-4-2:2008  
 Test level :  $\pm 4.0\text{kV}$  contact discharge;  
 $\pm 2.0\text{kV}$ ,  $\pm 4.0\text{kV}$ ,  $\pm 8.0\text{kV}$  air discharge  
 Polarity : Positive / Negative  
 Number of discharges : 10 at each point  
 Performance : B  
 Ambient condition : Temperature: 21°C, Relative humidity: 35%

**Table 2: Electrostatic discharge immunity test results**

Position	Kind of Discharge	Result	Remarks
Metallic Enclosure	Contact discharge $\pm 4\text{kV}$	Pass	No disturbance of function
Non-metallic enclosure, Signal line	Air discharge $\pm 2.0\text{kV}$ , $\pm 4.0\text{kV}$ , $\pm 8.0\text{kV}$	Pass	No disturbance of function
Coupling plane (VCP and HCP)	Contact discharge $\pm 4\text{kV}$	Pass	No disturbance of function

### 5.1.2 RF electromagnetic field immunity test

**Result:**
**Pass**

The test level 10V/m for frequency range 80MHz-6GHz was performed inside a 3m modified semi-anechoic chamber with a test disturbance of 3m as the applicant required. The field uniformity of the test sites is regularly calibrated to ensure the 0-6dB field uniformity criterion as specified by IEC 61000-4-3:2006+A1+A2 are met.

Date of testing : 2021-03-11  
 Basic standard : IEC 61000-4-3:2006+A1+A2  
 Test level : 10V/m  
 Frequency range : 10 V/m (80 MHz to 6 GHz)  
 Modulation : 80% 1kHz AM  
 Frequency scan speed : Frequency step: 1%; Dwell time: 3s  
 Performance : A  
 Ambient condition : Temperature: 20°C, Relative humidity: 35%

**Table 3: RF electromagnetic field immunity test results**

Polarization	Result	Remarks
Horizontal	Pass	During the test, the EUT can operate as intended.
Vertical	Pass	During the test, the EUT can operate as intended.

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### 5.1.3 Power frequency magnetic field

**Result:**

N/A

Due to the EUT does not contain components susceptible to magnetic fields, such as Hall elements or magnetic field sensors. Therefore, the EUT is deemed to meet the requirement without actual testing.

## 5.2 Input and Output AC Power Port and analogue/digital data port

### 5.2.1 Fast Transients on AC Power Line and analogue/digital data line

**Result:**

**Pass**

During the test, the EUT was placed on a 0.1m high insulating support above the reference ground plane. The minimum distance between the EUT and all other conductive structures except the reference ground plane beneath the EUT is more than 0.5m.

The length between the coupling device and the EUT is less than 1m. The excessive part of the power cord longer than 1m was folded forth and back parallel so as to form a bundle with a length between 0.3m and 0.4m.

Date of testing : 2021-03-11  
 Test procedure : IEC 61000-4-4:2004  
 Test level :  $\pm 2.0\text{kV}$ , 5kHz, for mains port  
                    $\pm 1\text{kV}$ , 5kHz, for USB port  
 Polarity : +/-  
 Coupling duration : 1min/polarity  
 Performance : B  
 Ambient condition : Temperature: 22°C, Relative humidity: 35%

**Table 4: EFT/B immunity test results for USB cable**

Coupling mode	Result	Remarks
AC mains port	N/A	The EUT cannot connect the public mains supply directly, therefore no test was needed on the AC mains supply.
USB cable	Pass	During the test, the EUT can operate as intended.

### 5.2.2 Injected Current into AC Power Line and analogue/digital data line

**Result:**
**Pass**

During the test, the sample was placed on a 0.1m wooden support above the reference ground plane. The minimum distance between the sample and all other conductive structures except the reference ground plane beneath the EUT is more than 0.5m.

A EM clamp was used to couple the disturbing signal onto the signal port of the sample. The distance between the EUT and the EM clamp is within 0.1-0.3m. The cable between the EUT and EM clamp is placed about 50mm above the reference ground plane. 10V test level was performed on EUT as the applicant required.

Date of testing : 2021-03-11  
 Basic standard : IEC 61000-4-6:2008  
 Test level and Frequency : 10V: 0.15MHz-80MHz  
 range  
 Modulation : 80% AM, 1kHz  
 Frequency scan speed : Frequency step: 1%; Dwell time: 3s  
 Performance : A  
 Ambient conditions : Temperature: 23°C, Relative humidity: 35%

**Table 5: Injected current, USB cable**

Port	Result	Remarks
AC mains port	N/A	The EUT cannot connect the public mains supply directly, therefore no test was needed on the AC mains supply.
USB cable	Pass	During the test, the EUT can operate as intended.

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### 5.2.3 Surges to AC Power Port and analogue/digital data port

<b>Result:</b>	N/A
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Date of testing : /  
Test procedure : IEC 61000-4-5:2005

Note: The EUT cannot connect the public mains supply directly and the signal line is not greater than 30m, therefore no test was needed on the AC mains supply.

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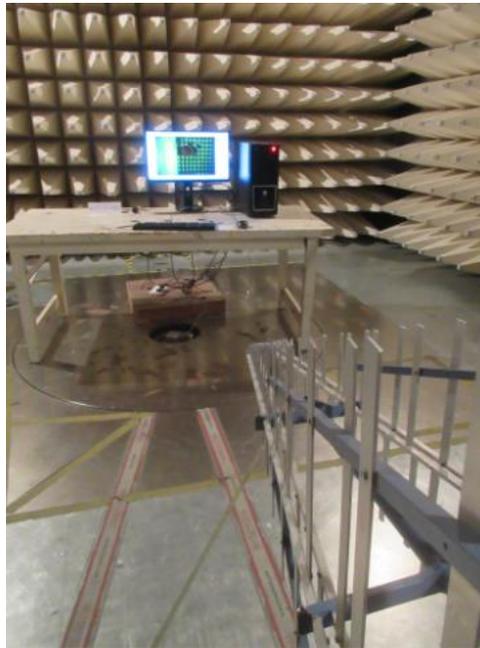
#### 5.2.4 Voltage dips and interruptions to AC Power Port

**Result:****N/A**

The EUT cannot connect the public mains supply directly, therefore no test was needed.

## 6 Photographs of the Test Set-Up

**Photograph 1: Set-up for measurement of radiated emission**



**Photograph 2: Set-up for immunity test of electrostatic discharge**



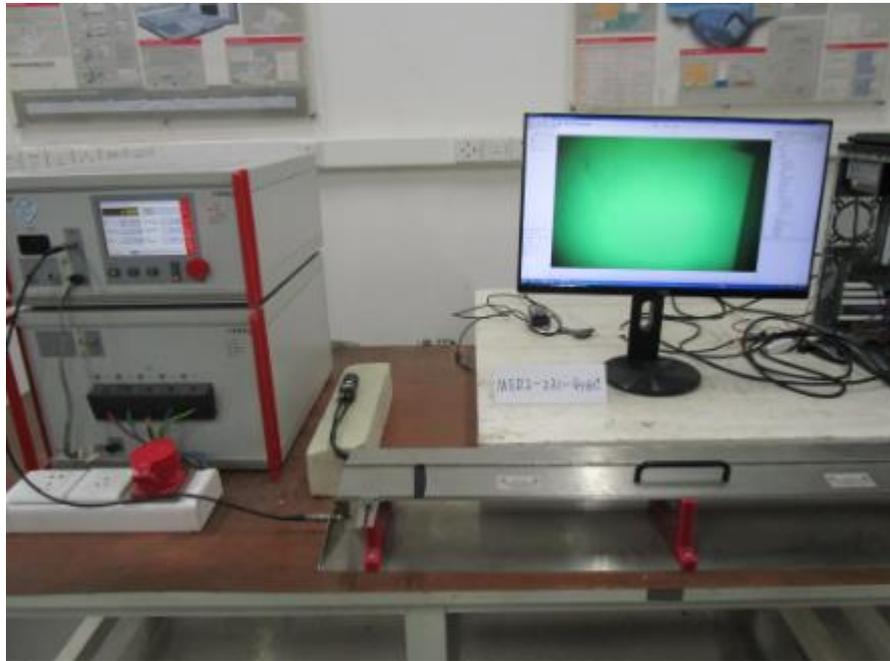
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**Photograph 3: Set-up for immunity test of RF electromagnetic field**



**Photograph 4: Set-up for immunity test of fast transient/burst**



**Photograph 5: Set-up for immunity test of Injected current**



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