

Prüfbericht-Nr.: Test report no.:	CN24MP3K 001	Auftrags-Nr.: Order no.:	168483495	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	40974830	Auftragsdatum: Order date:	2024-05-10	
Auftraggeber: Client:	Zhejiang MRDVS Technology Co., Ltd. 1st Floor, No. 5 Building, Phase II of High-end Manufacturing Industrial Park, No. 1177 Xin'an Road, High-tech Zone, Wuxing District, Huzhou, 313000 Zhejiang P.R. China			
Prüfgegenstand: Test item:	Eagle series 3D camera			
Bezeichnung / Typ-Nr.: Identification / Type no.:	LXPS-M4422-57E-940C, LXPS-S4422-79I-940C			
Auftrags-Inhalt: Order content:	TUV Rheinland - EMC service			
Prüfgrundlage: Test specification:	EN IEC 61000-6-2:2019 EN IEC 61000-6-4:2019			
Wareneingangsdatum: Date of sample receipt:	2024-05-10			
Prüfmuster-Nr.: Test sample no.:	A003717001-001			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	Refer to section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by: Zack Zhu Under supervised by: Murphy Chen Datum: Date: 2024-06-18	 genehmigt von: authorized by: Felix Tao  Ausstellungsdatum: Issue date: 2024-06-18			
Stellung / Position:	Project Handler	Stellung / Position:	Reviewer	
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:		Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
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Anmerkungen Remarks		

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

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TEST SUMMARY

5.1.1 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE AT DC POWER PORT

Not Applicable

5.1.2 TERMINAL CONTINUOUS DISTURBANCE VOLTAGE AT WIRED NETWORK PORT

RESULT: Pass

5.2.1 RADIATED DISTURBANCE (BELOW 1GHz)

RESULT: Pass

5.2.2 RADIATED DISTURBANCE (ABOVE 1GHz)

RESULT: Pass

6.2.1 RADIO-FREQUENCY ELECTROMAGNETIC FIELD AMPLITUDE MODULATED (RS)

RESULT: Pass

6.2.2 RADIO-FREQUENCY CONTINUOUS CONDUCTED (CS)

Not Applicable

6.2.3 POWER-FREQUENCY MAGNETIC FIELDS

Not Applicable

6.3.1 FAST TRANSIENTS (EFT)

Not Applicable

6.3.2 SURGE

Not Applicable

6.3.3 ELECTROSTATIC DISCHARGES (ESD)

RESULT: Pass

6.4.1 VOLTAGE DIPS AND INTERRUPTIONS

Not Applicable

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix 1: Test result

Appendix 2: Measurement uncertainties

Remark: The product name Eagle-M4 Mega in the test result represented the final product name **Eagle series 3D camera**.

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd. Testing Center
No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equipment	Manufacturer	Model No.	Serial No.	Calibration Until
Conducted Emission				
EMI Test Receiver	R&S	ESR3	102428	2024-07-30
Impedance Stabilisation Network	R&S	ENY81-CA6	101810	2024-07-31
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radiated Disturbance				
EMI Test Receiver	R&S	ESR7	102111	2024-11-09
Horn Antenna	R&S	HF907	102706	2024-08-03
Preamplifier (1-18GHz)	FIT	SCU-18F	180077	2024-07-31
Trilog-Broadband antenna	SCHWARZBECK	VULB9168	0945	2024-08-19
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Radio-Frequency Electromagnetic Field Amplitude Modulated (RS)				
Signal Generator	R&S	SMB100A	115183	2024-07-30
Power Amplifier	R&S	BBA150-BC250	103102	2024-07-31
Power Amplifier	R&S	BBA150-D110E100	103117	2024-08-27
NRP6AN Average power sensor	R&S	NRP6AN	101161	2024-07-30
NRP6AN Average power sensor	R&S	NRP6AN	101162	2024-07-30
Stacked double Log.-Per. Antenna1825022	SCHWARZBECK	STLP 9128E	0153	2024-12-29
Stacked Log.-Per. Antenna	SCHWARZBECK	STLP 9149	00520	2024-12-29
EMC32 test software	R&S	EMC32(Ver.10.30.01)	N/A	N/A
Electrostatic Discharges (ESD)				
ESD Tester	TESEQ	NSG-437	1282	2024-07-30

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is **Eagle series 3D camera**, it is a 3D Vision Camera and intended to use in industrial environments.

All models are identical except the model's name and software algorithm.

In practical environment, the length of the cable connecting the Ethernet port and CAN port is less than 3m.

For details, please refer to the manufacturer's Circuit Diagram & Instruction Manual.

3.2 Ratings and System Details

System input voltage:	DC 24V
Rated Input Current:	2A
Protection class:	III
Highest internal frequency:	1560MHz

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
- B. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to the manufacturer's Circuit Diagram.

3.5 Submitted Documents

- Instruction Manual
- PCB Layout
- Rating Label
- Circuit Diagram

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5 & 6.
According to the product characteristics and models different in section 3.1, full tests were applied on model LXPS-M4422-57E-940C.

4.3 Special Accessories and Auxiliary Equipment

The EUT was tested together with the following accessories:

Item	Manufacturer	M/N	S/N	Remark
Portable Laptop	Lenovo	ThinkPad T480	10Q67059	--
DC power supply	APS	ADC-0800100-15	D218050011	--

4.4 Countermeasures to achieve EMC Compliance

The test sample which has been tested, contained the noise suppression parts as described in the Constructional Data Form or the Technical Construction File. No additional measures were employed to achieve compliance.

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5. Test Results EMISSION

5.1 Emission in the Frequency Range up to 30 MHz

5.1.1 Terminal Continuous Disturbance Voltage at DC power port

Not Applicable

Date of testing	:	--
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	0.15 - 30MHz
Limits	:	Table A.1 of EN IEC 61000-6-4:2019
Kind of test site	:	Shielded room
Tested Port	:	--

Remark: This test item belongs to proposed requirement, and the DC input port cable is less than 3m, therefore, this test item is not applicable.

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5.1.2 Terminal Continuous Disturbance Voltage at wired network port

RESULT:

Pass

Date of testing	:	Refer to Appendix 1
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	0.15 - 30MHz
Limits	:	Table 5 of EN IEC 61000-6-4:2019
Kind of test site	:	Shielded room
Tested Port	:	LAN Port

Test setup

Input Voltage	:	DC 24V (external power supply input)
Operation Condition	:	Clause 4 of EN IEC 61000-6-4:2019
Operation mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

Refer to attached Appendix 1.

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5.2 Emission in the Frequency Range above 30 MHz

5.2.1 Radiated Disturbance (Below 1GHz)

RESULT:

Pass

Date of testing	:	Refer to Appendix 1
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	30 - 1000MHz
Limits	:	Table 3 of EN IEC 61000-6-4:2019
Kind of test site	:	3m Semi-Anechoic Chamber
Tested Port	:	Enclosure

Test setup

Input Voltage	:	DC 24V (external power supply input)
Operation Condition	:	Clause 4 of EN IEC 61000-6-4:2019
Operation mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

Refer to attached Appendix 1.
(The minimum margin is 2.39dB)

5.2.2 Radiated Disturbance (Above 1GHz)

RESULT:

Pass

Date of testing	:	Refer to Appendix 1
Test standard	:	EN IEC 61000-6-4:2019
Frequency range	:	1000 - 6000MHz
Limits	:	Table 3 of EN IEC 61000-6-4:2019
Kind of test site	:	3m Semi-Anechoic Chamber
Tested Port	:	Enclosure

Test setup

Input Voltage	:	DC 24V (external power supply input)
Operation Condition	:	Clause 4 of EN IEC 61000-6-4:2019
Operation mode	:	A
Earthing	:	Not Connected
Ambient temperature	:	Refer to Appendix 1
Relative humidity	:	Refer to Appendix 1
Atmospheric pressure	:	Refer to Appendix 1

Refer to attached Appendix 1.

6. Test Results IMMUNITY

6.1 Classification of apparatus

According to EN IEC 61000-6-2:2019, the EUT shall be tested in accordance with table 1, 2 & 3, and comply with following performance criterion:

Continuous Disturbance

Power-Frequency Magnetic Fields	N/A
Radio-Frequency Electromagnetic Field Amplitude Modulated (RS)	Criterion A
Radio-Frequency Continuous Conducted (CS)	N/A

Transient Disturbance

Fast Transients (EFT)	N/A
Surge	N/A
Electrostatic Discharges (ESD)	Criterion B

Power Supply Alterations

Voltage Dips and Interruptions	N/A
--------------------------------	-----

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6.2 Continuous Disturbances

6.2.1 Radio-Frequency Electromagnetic Field Amplitude Modulated (RS)

RESULT:

Pass

Date of Testing : 2024-05-21
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-3:2006+A1+A2
Criterion : A
Frequency Range : 80 – 6,000MHz
Test Level : 10V/m, 80 – 1000MHz
3V/m, 1.4 – 6.0GHz
(Unmodulated, r.m.s.)
Modulation : AM 80%, 1kHz sine-wave
Test distance : 3m
Tested Port : Enclosure

Test setup

Input Voltage : DC 24V (external power supply input)
Operation Mode : A
Earthing : Not Connected
Ambient temperature : 24.2°C
Relative humidity : 53.2%
Atmospheric pressure : 101kPa

Test result:

Polarization	Frequency Range	Test Level	Criterion	Description	Conclusion
Horizontal	80MHz to 1000MHz	10V/m (rms)	A	Operating as intended, no failure detected	Pass
Vertical	80MHz to 1000MHz	10V/m (rms)	A	Operating as intended, no failure detected	Pass
Horizontal	1.4GHz to 6GHz	3V/m (rms)	A	Operating as intended, no failure detected	Pass
Vertical	1.4GHz to 6GHz	3V/m (rms)	A	Operating as intended, no failure detected	Pass

6.2.2 Radio-Frequency Continuous Conducted (CS)

Not Applicable

Date of testing	:	--
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-6:2013
Criterion	:	A
Frequency range	:	0.15 – 80 MHz
Source impedance	:	150Ω
Test level	:	10V (unmodulated, r.m.s.)
Modulation	:	AM 80%, 1kHz sine-wave
Sweep mode	:	automatic
Sweep rate	:	<1.5×10 ⁻³ decade/sec.

Remark: Since the length of cables connecting to DC input power port and signal port is less than 3m, therefore, this test item is not applicable.

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6.2.3 Power-frequency Magnetic Fields

Not Applicable

Date of testing	:	--
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-8:2009
Criterion	:	A
Test Frequency	:	50/60Hz
Test level	:	30A/m
Tested Port	:	Enclosure

Remark: Since the EUT does not contain any components susceptible to magnetic fields. The Power Frequency Magnetic Fields test is not applicable.

6.3 Transient Disturbances

6.3.1 Fast Transients (EFT)

Not Applicable

Date of testing	:	--
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-4:2012
Criterion	:	B
Test level	:	±1kV
Test duration	:	≥120sec
Rise time	:	5/50ns
Repetition frequency	:	5kHz

Remark: The length of cable connecting to DC input power port, signal port is less than 3m, and DC ports which are not intended to be connected to a DC distribution network, therefore, this test item is not applicable.

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6.3.2 Surge

Not Applicable

Date of testing	:	--
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-5:2014
Criterion	:	B
Source impedance	:	2Ω, 12Ω, 42Ω
Test level	:	±0.5kV, ±1.0kV
Number of surges	:	5 (for each combination of parameters)
Repetition rate	:	Max. 1/min
Tested Port	:	DC input power port, Signal port

Remark: The length of cable connecting to DC input power port and signal port is less than 30m. therefore, this test item is not applicable.

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6.3.3 Electrostatic Discharges (ESD)

RESULT:

Pass

Date of testing : 2024-05-21
Test Specification : EN IEC 61000-6-2:2019
Basic Standard : IEC 61000-4-2:2008
Criterion : B
Charge voltage : $\pm 2.0\text{kV}$, $\pm 4.0\text{kV}$, $\pm 8\text{kV}$ (air discharge)
 $\pm 4.0\text{kV}$ (contact discharge)
Number of discharges : >10
Tested Port : Enclosure

Test Setup

Input Voltage : DC 24V (external power supply input)
Operation Mode : A
Earthing : Not Connected
Ambient temperature : 23.6°C
Relative humidity : 53.8%
Atmospheric pressure : 101 kPa

Test result:

Test Point	Test Mode	Test Level (kV)	Performance Criterion	Description	Result
VCP	C	± 4	B	No failure detected	Pass
HCP	C	± 4	B	No failure detected	Pass
Conducted Enclosure	C	± 4	B	No failure detected	Pass*
Slot	A	± 2 , ± 4 , ± 8	B	No failure detected	Pass
Non-Conducted Enclosure	A	± 2 , ± 4 , ± 8	B	No failure detected	Pass

Note: A-Air discharge; C- Contact Discharge; VCP- Vertical Coupling Plane; HCP- Horizontal Coupling Plane.

Remark: * When contact discharge 4KV at surface of EUT, the depth and amp value will decrease, can restore after test.

6.4 Power Supply Alterations

6.4.1 Voltage Dips and Interruptions

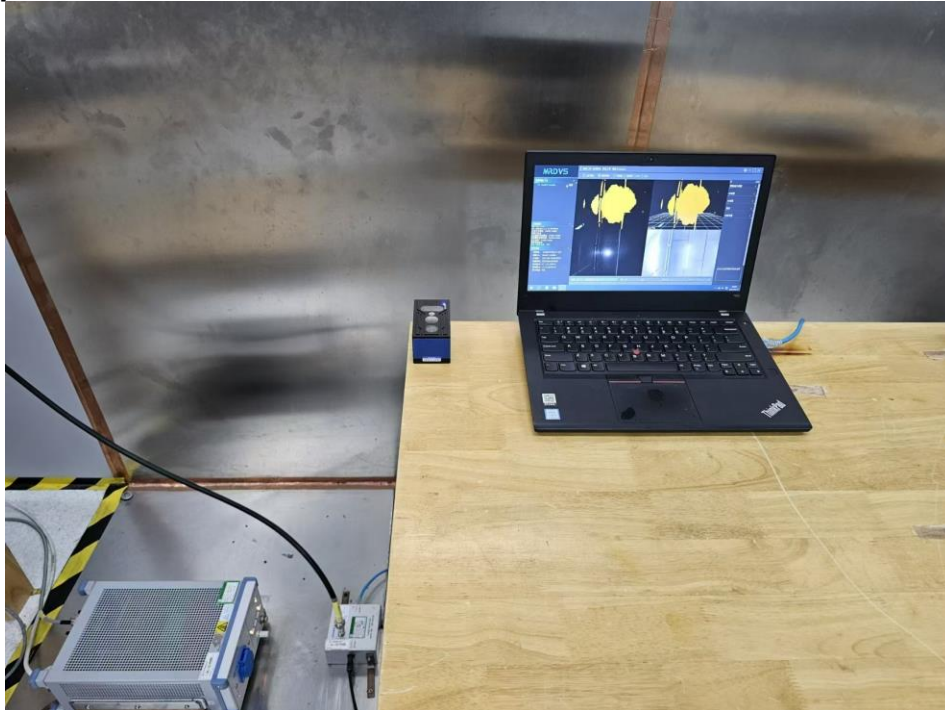
Not Applicable

Date of testing	:	--
Test Specification	:	EN IEC 61000-6-2:2019
Basic Standard	:	IEC 61000-4-11:2004
Criterion	:	B & C
Tested Port	:	--

Remark: The EUT's input voltage is 24Vdc and not connect to public low-voltage distribution system. therefore, this item is not applicable.

7. Photographs of the Test Set-Up

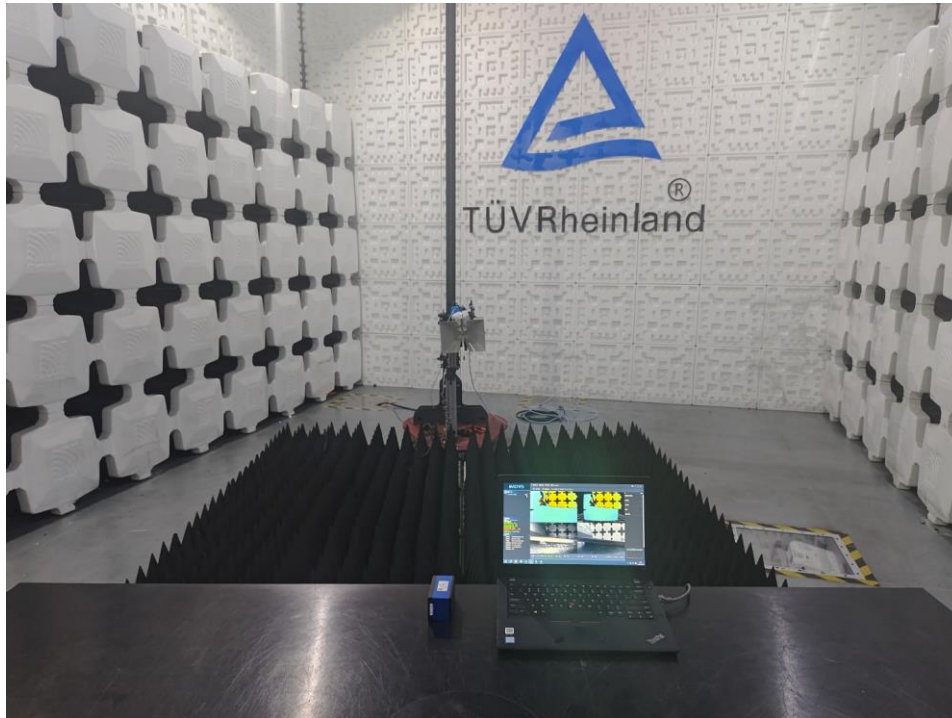
Photograph 1: Terminal Continuous Disturbance Voltage at wired network port



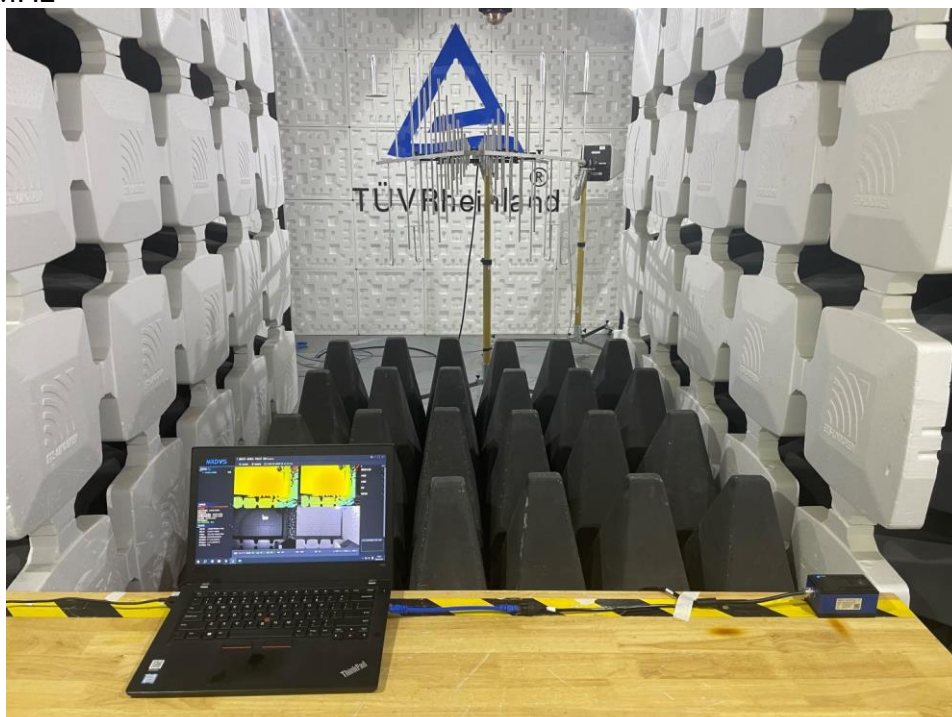
Photograph 2: Set-up for Radiated Emission Below 1GHz



Above 1GHz



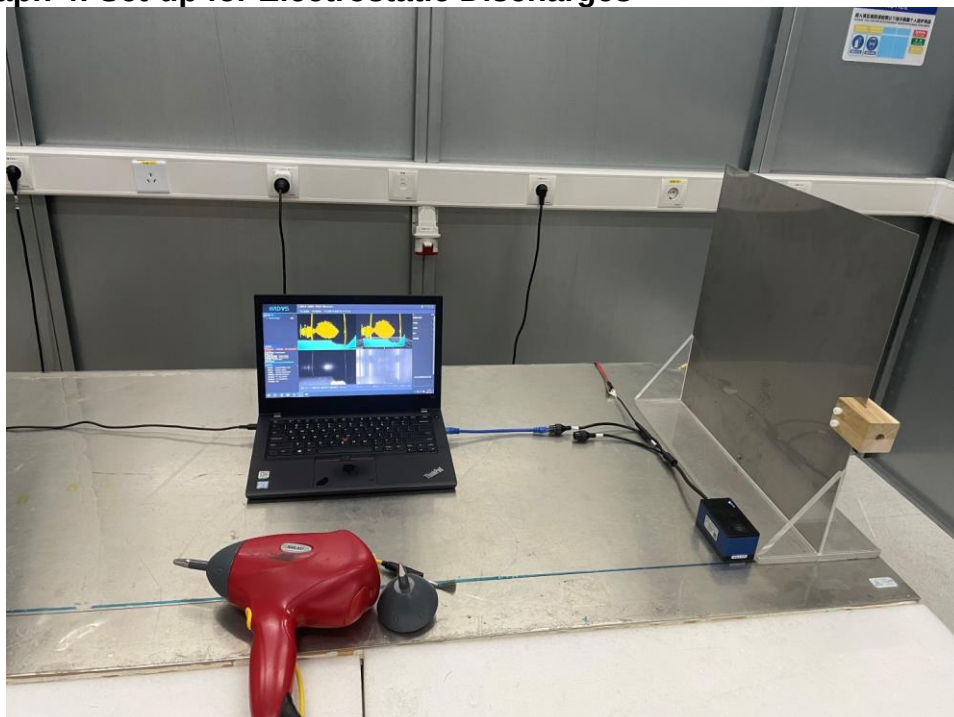
Photograph 3: Set-up for Continuous RF electromagnetic field disturbances
80-1000MHz



1400-6000MHz



Photograph 4: Set-up for Electrostatic Discharges



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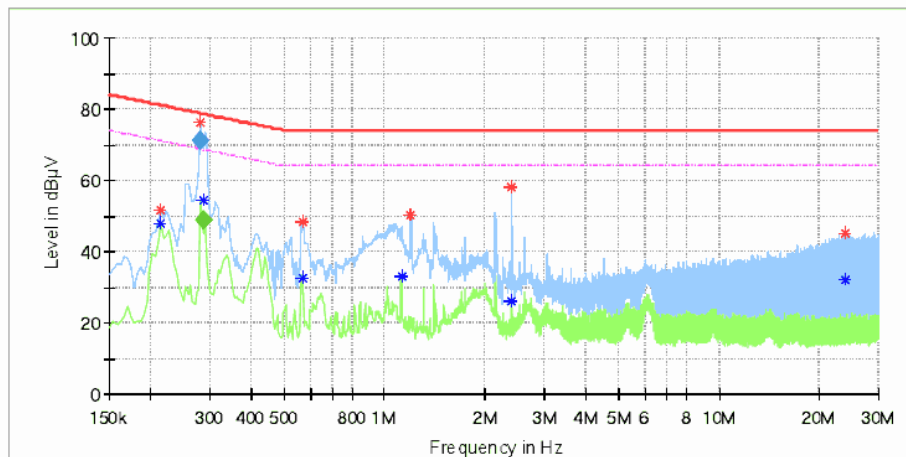
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Test Report

EUT Information

EUT Name	Eagle-M4 Mega
Order Number:	168483495 10
Model:	LXPS-M4422-57E-940C
Test Mode:	Camera ON
Test Voltage:	DC 24V
Test Standard:	EN IEC 61000-6-4
Test By./Review By:	Dawn Shen/Shower Dai
Tem./Hum./Pressure:	23.9°C/52.7%/101kPa
Remark:	SR1



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Corr. (dB)
0.214000	---	48.00	71.05	23.05	9.9
0.214000	51.78	---	81.05	29.26	9.9
0.282000	76.32	---	78.76	2.43	9.8
0.286000	---	54.62	68.76	14.13	9.8
0.566000	---	32.44	64.00	31.56	9.7
0.566000	48.54	---	74.00	25.46	9.7
1.122000	---	33.21	64.00	30.79	9.6
1.198000	50.06	---	74.00	23.94	9.6
2.398000	58.22	---	74.00	15.78	9.6
2.402000	---	26.24	64.00	37.76	9.6
23.858000	---	32.10	64.00	31.90	9.8
23.858000	45.06	---	74.00	28.94	9.8

Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Corr. (dB)
0.282000	71.14	---	78.76	7.62	1000.0	9.000	9.8
0.286000	---	48.66	68.64	19.98	1000.0	9.000	9.8

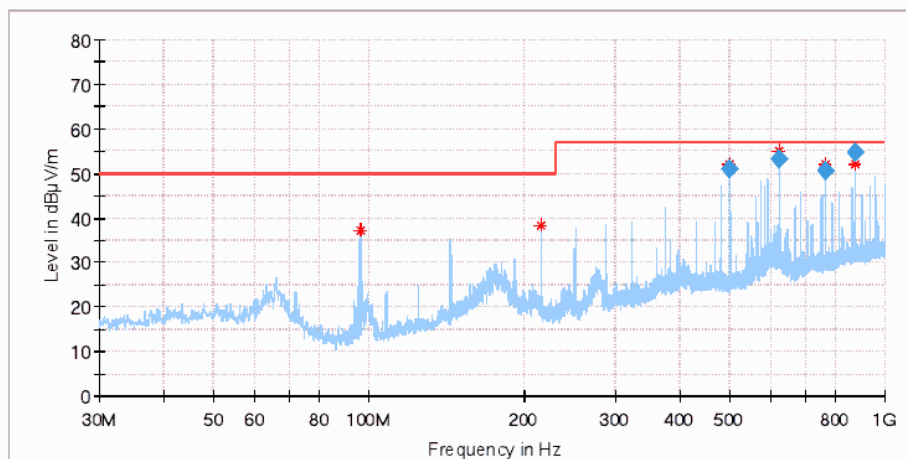
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Test Report

EUT Information

EUT Name:	Eagle-M4 Mega
Order Number:	168483495 10
Model:	LXPS-M4422-57E-940C
Test Mode:	Camera ON
Test Voltage:	DC 24V
Test Standard:	EN IEC 61000-6-4
Test By:/Review By:	Soloman Wu/Shower Dai
Tem./Hum./Pressure:	23.8°C/52.4%/101kPa
Remark:	3m chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
95.960000	37.19	50.00	12.81	200.0	H	39.0	15.5
215.949000	38.44	50.00	11.56	200.0	H	19.0	17.7
500.005000	52.01	57.00	4.99	200.0	H	225.0	26.5
624.998000	54.96	57.00	2.04	200.0	H	33.0	29.7
768.016000	52.09	57.00	4.91	100.0	H	104.0	32.0
874.927000	52.25	57.00	4.75	100.0	H	253.0	33.4

Final Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
500.005000	50.94	57.00	6.06	1000.0	120.000	200.0	H	225.0	26.5
624.998000	53.09	57.00	3.91	1000.0	120.000	200.0	H	33.0	29.7
768.016000	50.49	57.00	6.51	1000.0	120.000	100.0	H	104.0	32.0
874.927000	54.61	57.00	2.39	1000.0	120.000	100.0	H	253.0	33.4

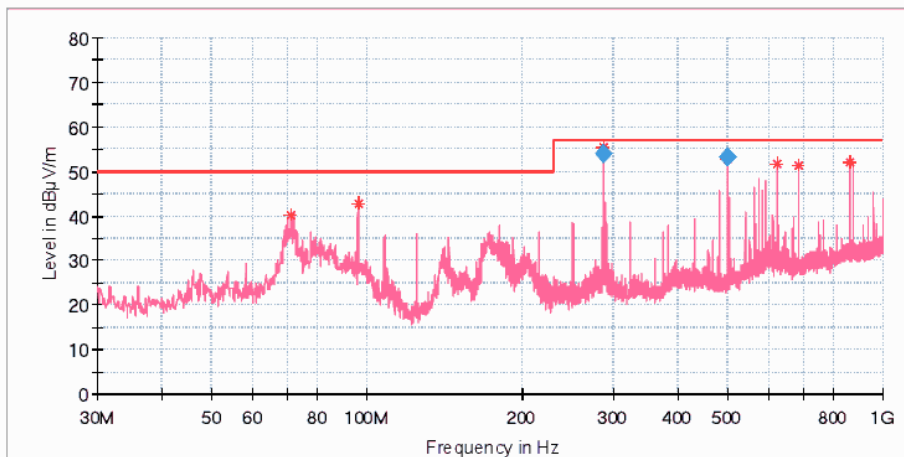
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Test Report

EUT Information

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Order Number:	168483495 10
Model:	LXPS-M4422-57E-940C
Test Mode:	Camera ON
Test Voltage:	DC 24V
Test Standard:	EN IEC 61000-6-4
Test By:/Review By:	Soloman Wu / Shower Dai
Tem./Hum./Pressure:	23.3°C/52.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
71.031000	40.27	50.00	9.73	100.0	V	73.0	18.2
95.960000	42.71	50.00	7.29	100.0	V	92.0	15.5
287.980000	55.38	57.00	1.62	100.0	V	63.0	21.3
500.005000	52.67	57.00	4.33	100.0	V	283.0	26.5
624.998000	51.84	57.00	5.16	100.0	V	76.0	29.7
687.466000	51.39	57.00	5.61	100.0	V	148.0	30.4
864.006000	52.25	57.00	4.75	100.0	V	186.0	33.3

Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
287.980000	54.04	57.00	2.96	1000.0	120.000	100.0	V	63.0	21.3
500.005000	53.28	57.00	3.72	1000.0	120.000	100.0	V	283.0	26.5

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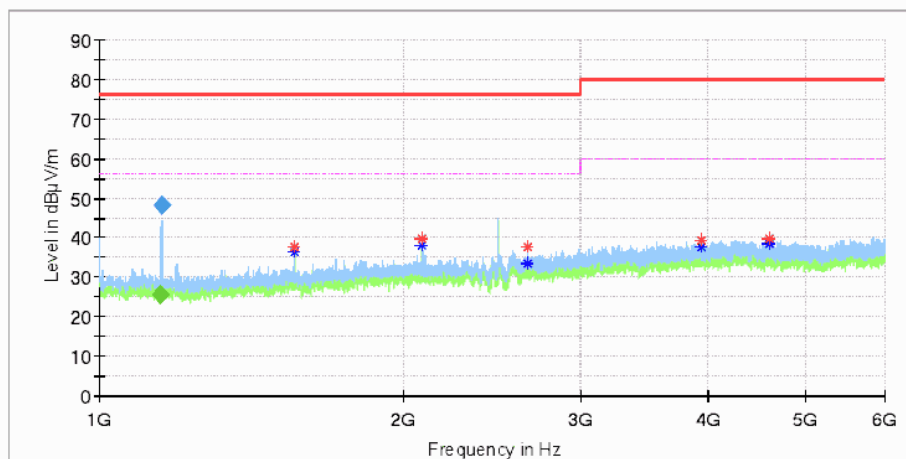
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Test Report

EUT Information

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Order Number:	168483495 10
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Test Standard:	EN IEC 61000-6-4
Test By./Review By:	Soloman Wu / Shower Dai
Tem./Hum./Pressure:	23.3°C/52.6%/101kPa
Remark:	3m chamber



Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1151.800000	---	25.35	56.00	30.65	100.0	H	176.0	-10.3
1152.200000	48.11	---	76.00	27.89	100.0	H	176.0	-10.3
1560.000000	37.53	---	76.00	38.47	200.0	H	150.0	-9.1
1560.000000	---	36.28	56.00	19.72	200.0	H	150.0	-9.1
2090.000000	39.60	---	76.00	36.40	100.0	H	128.0	-7.2
2090.000000	---	37.91	56.00	18.09	100.0	H	128.0	-7.2
2657.000000	---	33.54	56.00	22.46	300.0	H	239.0	-4.7
2657.000000	37.80	---	76.00	38.20	300.0	H	239.0	-4.7
3951.000000	---	37.47	60.00	22.53	100.0	H	271.0	-0.3
3951.000000	39.32	---	80.00	40.68	100.0	H	271.0	-0.3
4607.500000	---	38.59	60.00	21.41	200.0	H	85.0	0.7
4607.500000	39.87	---	80.00	40.13	200.0	H	85.0	0.7

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1151.800000	---	25.74	56.00	30.26	1000.0	1000.00	100.0	H	176.0	-10.3
1152.200000	48.31	---	76.00	27.69	1000.0	1000.00	100.0	H	176.0	-10.3

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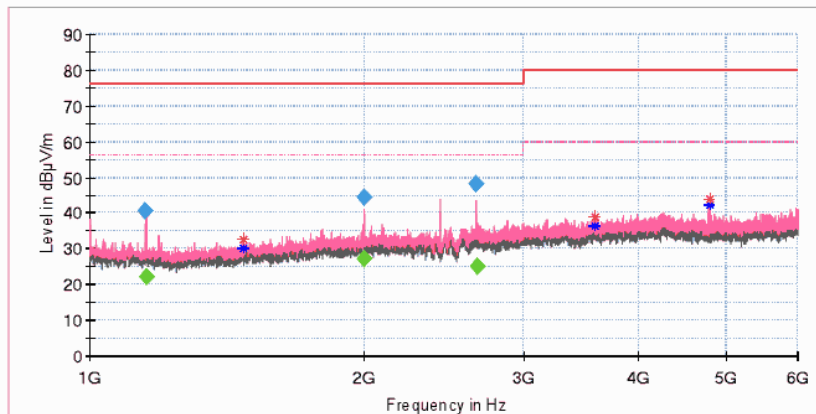
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Test Report

EUT Information

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Test Standard:	EN IEC 61000-6-4
Test By:/Review By:	Soloman Wu / Shower Dai
Tem./Hum./Pressure:	23.3°C/52.6%/101kPa
Remark:	3m chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1151.800000	40.03	---	76.00	35.97	100.0	V	156.0	-10.3
1152.200000	---	22.18	56.00	33.82	100.0	V	156.0	-10.3
1473.000000	---	30.28	56.00	25.72	100.0	V	81.0	-9.3
1473.000000	32.45	---	76.00	43.55	100.0	V	81.0	-9.3
1999.600000	44.75	---	76.00	31.25	100.0	V	166.0	-7.4
2000.000000	---	27.67	56.00	28.33	100.0	V	166.0	-7.4
2659.600000	48.60	---	76.00	27.40	100.0	V	156.0	-4.7
2662.100000	---	25.70	56.00	30.30	100.0	V	156.0	-4.7
3597.000000	---	36.61	60.00	23.39	200.0	V	156.0	-1.3
3597.000000	38.98	---	80.00	41.02	200.0	V	156.0	-1.3
4800.000000	---	42.28	60.00	17.72	100.0	V	236.0	0.5
4800.000000	43.78	---	80.00	36.22	100.0	V	236.0	0.5

Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1151.800000	40.79	---	76.00	35.21	1000.0	1000.00	100.0	V	156.0	-10.3
1152.200000	---	22.35	56.00	33.65	1000.0	1000.00	100.0	V	156.0	-10.3
1999.600000	44.28	---	76.00	31.72	1000.0	1000.00	100.0	V	166.0	-7.4
2000.000000	---	27.31	56.00	28.69	1000.0	1000.00	100.0	V	166.0	-7.4
2659.600000	47.95	---	76.00	28.05	1000.0	1000.00	100.0	V	156.0	-4.7
2662.100000	---	25.18	56.00	30.82	1000.0	1000.00	100.0	V	156.0	-4.8

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Measurement Uncertainties

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus.

The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor of $k=2$, which for a normal distribution corresponds to a coverage probability of approximately 95%.

Table 1: Measurement Uncertainty levels

Test	Parameters	Expanded uncertainty (U_{lab})	Expanded uncertainty (U_{cisp})
Conducted Emission	Level accuracy (9kHz to 150kHz) (150kHz to 30MHz)	± 3.70 dB ± 3.30 dB	± 3.8 dB ± 3.4 dB
Disturbance Power	Level accuracy (30MHz to 300MHz)	± 4.27 dB	± 4.5 dB
Electromagnetic Radiated Emission (Triple-loop)	Level accuracy (9kHz to 30MHz)	± 2.67 dB	N/A
Radiated Emission (3m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.52 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.37 dB	N/A
Radiated Emission (10m SAC)	Level accuracy (30MHz to 1000MHz)	± 4.66 dB	± 6.3 dB
	Level accuracy (above 1000MHz)	± 4.35 dB	N/A
Mains Harmonic	Current	$\pm 4.60\%$	N/A
Voltage Fluctuations & Flicker	Voltage	$\pm 0.64\%$	N/A

As U_{lab} in all applicable tests listed above are less than U_{cisp} according to CISPR 16-4-2:2011+A1:2014+A2:2018,

- compliance is deemed to occur if no measured disturbance exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance exceeds the disturbance limit.