### Test Report issued under the responsibility of:



The following sample(s) was/were submitted and identified on behalf of the client as:

#### **TEST REPORT**

Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)

**Report Reference No......** GZES191102767101

Tested by (name + signature) .....: Chico

Approved by (+ signature) .......... Anlay Don Anlay Don

Total number of pages..... 22

Testing Laboratory ...... SGS-CSTC Standards Technical Services Co., Ltd

**Guangzhou Branch** 

Development Area, Guangzhou, Guangdong, China

**Test specification:** 

(EN: 50155:2017)

Non-standard test method...... None

Test Report Form(s) Originator ......: SGS-CSTC

Master TRF...... 2018-2-28

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Test item description:	Network Camera
Model/Type reference	DS-2XM6522G0-IDM, DS-2XM6512G0-ID, DS-2XM6512G0-IDUHK, DS-2XM6512G0-IDCKV, DS-2XM6512G0-IDUNS, DS-2XM6512G0-IDKVO, DS-2XM6512G0-IDHUN, DS-2XM6512G0-IDM, DS-2XM6512G0-IDMUHK, DS-2XM6512G0-IDMCKV, DS-2XM6512G0-IDMUHK, DS-2XM6512G0-IDMCKV, DS-2XM6512G0-IDMUN, DS-2XM6512G0-IDMKVO, DS-2XM6512G0-IDMUN, DS-2XM652G0-ID, DS-2XM6512G0-IDHUN, DS-2XM6522G0-IDCKV, DS-2XM6522G0-IDHUN, DS-2XM6522G0-IDKVO, DS-2XM6522G0-IDHUN, DS-2XM6522G0-IDMKVO, DS-2XM6522G0-IDMUN, DS-2XM6522G0-IDMCKV, DS-2XM6522G0-IDMUN, DS-2XM6522G0-IDMKVO, DS-2XM6522G0-IDMUN, DS-2XM6522G0-IDMKVO, DS-2XM6522G0-IDMUN, DS-2XM6512WD-ID, DS-2XM6512WD-IDHUN, DS-2XM6512WD-IDKVO, DS-2XM6512WD-IDHUN, DS-2XM6512WD-IDMKVO, DS-2XM6512WD-IDMUN, DS-2XM6512WD-IDMKVO, DS-2XM6512WD-IDMUN, DS-2XM6512WD-IDMKVO, DS-2XM6512WD-IDMUN, DS-2XM6512WD-IDMKVO, DS-2XM6512WD-IDMHUN, DS-2XM6522WD-ID, DS-2XM6522WD-IDHUN, DS-2XM6522WD-IDM, DS-2XM6522WD-IDM, DS-2XM6522WD-IDM, DS-2XM6522WD-IDM, DS-2XM6522WD-IDM, DS-2XM6522WD-IDM, DS-2XM6522WD-IDMUN, DS-2XM6522WD-IDMKVO, DS-2XM6522WD-IDMUN, DS-2XM6522WD-IMMKVO, DS-2XM6512WD-IMMUN, DS-2XM6522WD-IMKVO, DS-2XM6522WD-IMMUN, DS-2XM6522WD-IMCKV, DS-2XM6522WD-IMMUN, DS-2XM6522WD-IMCKV, DS-2XM6522WD-IMMUN, DS-2XM6522WD-IMCKV, DS-2XM6522WD-IMMUN, DS-2XM6522WD-IMCKV,
	DS-2XM6522WD-IMUVS, DS-2XM6522WD-IMKVO, DS-2XM6522WD-IMHUN





Ratings..... 24 Vd.c.; 0,36 A; 8,6 W

Brand name ...... HIKVISION

Manufacturer..... Same as applicant

Factory ...... Hangzhou Hikvision Technology Co., Ltd.

No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhejiang,

310052, China

Hangzhou Hikvision Electronics Co., Ltd.

No.299, Qiushi Road, Tonglu Economic Development Zone,

Tonglu County, Hangzhou, Zhejiang, 310052, China

Chongqing Hikvision technology Co., Ltd.

No. 118, Haikang Road, Area C, Jiangiao Industrial Park,

Dadukou District, Chongqing, 401325, China

## **Summary of testing:**

The sample(s) in this report has considered and complied below mandatory tests and requirements according to Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017).

When determining the test conclusion, the Measurement Uncertainty of test has been considered.

Model DS-2XM6522G0-IDM was selected for test as representative.

All the performance checks were carried out at both 16,8Vd.c. and 33,6Vd.c. input.



## **Tests performed:**

Selected verdict	Sub- clause	Test name	Reference test method standard
	13.4.1	Visual inspection test	
$\boxtimes$	13.4.2	Performance test	
$\boxtimes$	13.4.3	Power supply test,	
	13.4.4	Low temperature start-up test,	EN 60068-2-1:2007 (test Ad)
	13.4.5	Dry heat test	EN 60068-2-2: 2007 (test Be)
	13.4.6	Low temperature storage test*	
	13.4.7	Cyclic damp heat test	EN 60068-2-30:2005 (test Db variant 2)
$\boxtimes$	13.4.9	Insulation test	
	13.4.10	Salt mist test*	EN 60068-2-11:1999 (test Ka)
	13.4.11	Vibration and shock test	EN 61373: 2010
	13.4.12	Enclosure protection test (IP code) *	
	13.4.13	Equipment stress screening test*	
	13.4.14	Rapid temperature variation test*	

The test item with \* markings are optional test subject to contract agreement between the user and the manufacturer, and the items without marking are mandatory tests according to standard.

The report does not contain 13.4.8 EMC test.

## Copy of marking plate

HIKVISION
NETWORK CAMERA
Model: DS-2XM6522G0JD

CE

Model: DS-2XM6522G0-ID I/P: 24V== 0.36A,8.6W

SN.: C12345678 SV: V5.5.83\_190218

MAC: 58:03:FB:2F:FF:FE 12/2019 CAN ICES-3(B)/NMB-3(B) Made in China

Remark: the above marking plate is only a draft artwork to show the product ratings and model No. Marking for other models are the same except model number.



Possible test case verdicts:	
- test case does not apply to the test object	N (or N/A)
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item	2019-11-16
Date (s) of performance of tests	2019-11-16 to 2019-12-13

### **General remarks:**

The test results presented in this report relate only to the object tested.

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"(see appended table)" refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

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Function:	Network Camera main function is collecting real-time video signals, Power by 24 V d.c. then through Ethernet port transmission to PC online surveillance
Power Source:	24 Vd.c.
Installation:	Used on rolling stock inside railway vehicles, body mounted
Construction:	Metal enclosure fixed by screws
Accessories:	No
Altitude	
Operation temperature:	□OT1 □OT2 □OT3 (default requirement)
	□OT4 □OT4 □OT5 □OT6
Switch-on extended operating temperature:	☐ST0 ☐ST1 (default requirement), ☐ ST2, ☐ NA
Rapid temperature variation	⊠H1 (default requirement), ☐ H2 ☐ N/A
Vibration and shock	☐ category 1 Class A ☐ category 1 Class B (recommended requirement); ☐ 2 (Bogie mounted), ☐ 3 (Axle mounted)
Interruption voltage supply	□S1 □S2 (default requirement), □S3 □ N/A
Supply change-over	□ C1 default requirement, □ C2 □ N/A
Documentation	□class M □M0 default requirement,



CI.	Requirement-Test	Result-Remark	Verdict
13.4.1 Visu	ial inspection	1	•
13.4.1 (a)	The visual inspection test verifies the mechanical, dimensional and appearance conformance of the Electronic Equipment		Р
13.4.1 (b)	A visual inspection shall be carried out before and after tests to check whether any damage or deterioration has occurred resulting from the tests.  After test, sample shows no damage and function is fine		Р
13.4.2 Perf	ormance test		•
13.4.2 (a)	The Performance test verifies the functional requirement of the Electronic Equipment, according to the performance test specification and procedure written by the supplier	Unit was tested with 24 Vd.c., during test unit shows no damage and function is fine.	Р
13.4.2 (b)	The performance test shall be carried out at the ambient temperature, consist of a comprehensive series of measurements of the characteristics of the equipment to check the performance is in accordance with the functional requirements of the particular equipment concerned, including any special requirements of its individual specification, and general requirements of this standard.		P
13.4.3 Pow	ver supply test	1	
13.4.3.1	The test verifies the functionality of the electronic equipment in all the conditions foreseen for the power supply.	Unit was tested under 16,8 Vd.c., 24 Vd.c. and 30 Vd.c., during tests unit shows no damage and function is fine	Р
	If the electronic equipment has a large number of similar power supply ports, which are electrically identical, then a sufficient number shall be selected to simulate actual operating conditions.	Only one power supply ports	N/A
	For each selected combination of test level and duration, with a sequence of 10 dips/interruptions and overvoltage with intervals of 10s minimum and 1 min maximum.		Р



	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.3.2	Supply variations	Test under Un -1,4 Un	Р
	DC power supply range: Tests shall be performed to prove correct functioning for the voltage range.	(24 Vd.c33,6 Vd.c.) during test unit shows no damage and function is fine.	
	Temporary supply overvoltage up to 1.4Un lasting no more than 0.1s shall not cause deviation of function (performance criterion A)	See appended table	
	Voltage V DC  1,4 Un  Un  ✓ 10 ms  100 ms  ✓ 10 ms  Figure 6 — Temporary supply overvoltages (a)		
	Temporary supply overvoltage up to 1.4Un lasting no more than 1s shall fulfil performance criterion B	Test under Un -1,4 Un (24 Vd.c33,6 Vd.c.) during test unit shows no damage and function is fine. See appended table	Р
	Un		
13.4.3.3	Temporary supply dips	Test under Un – 0,6Un - Un	Р
	Temporary supply dips down to 0.6Un not exceeding 0.1s shall not cause deviation of function (performance criterion A)	(24 Vd.c14,4 Vd.c24 Vd.c.) during test unit shows no damage and function is fine.	
	Voltage V DC  Un  0,6 Un  100 ms  ≤10 ms  Time	See appended table	
	Figure 8 — Temporary supply dips		



	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.3.4	Interruptions of voltage supply  Regarding interruptions on supply voltage, there are three classes of equipment:  Table 13 — Interruptions of voltage supply classes  Class Requirements Duration of the Interruption time Tint (See Figure 9)  No performance criterion is requested but the equipment shall continue to operate as specified after the voltage interruption.  S2 The equipment shall behave according performance criterion A.  S3 The equipment shall behave according performance criterion A.	For interruptions of voltage supply: Class S2; See appended table	P
	Test shall be carried out at norminal voltage.  For voltage interruption longer than specified within the class, equipment shall behave at minimum according performance criterion C.  Voltage V DC  Un  10 ms or 20 ms  50 µs  Figure 9 — Interruption of supply voltage		N/A
13.4.3.5	Supply change-over  The equipment shall operate satisfactorily under conditions:  - Class C1: at 0.6Un during 100ms (without interruptions) Performance criterion A;  - Class C2: during a supply break of 30 ms starting at Un. Performance criterion B  Voltage V DC  Un  Figure 10 — Supply change-over Class C1  Voltage V DC  Un  Time	For supply change over: Class C1 Test under Un – 0.6Un - Un (24 Vd.c14,4 Vd.c24 Vd.c.) See appended table	P



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	Б."		- 1 age 10 01 22	10 1 (5N 50455 0047)	
		• • •	ons – Electronic equipment used on		I
CI.	Requi	rement-Tes	st	Result-Remark	Verdict
13.4.4	Low tempe	rature star	t-up test	·	
		est is carrie est Ad.	d out in accordance with EN 60068-		Р
		ment is pla chamber.	ced, without any voltage applied, in		Р
	tempe	erature clas	be tested according to its operating s, low operating temperature ken from Table 1.	Class OT2 used according to manufacturer: - 40 °C	Р
	Ta	able 1 — (	Operating temperature classes	•	
		Class	Equipment operating temperature range (°C)		
		OT1	-25 to +55		
		OT2	-40 to +55		
		OT3	-25 to +70		
		OT4	-40 to +70		
		OT5	-25 to +85		
		OT6	-40 to +85		
	after t suffici	hermal stat ent period o zation. In a	hall be first conditioned by leaving it bilization of the chamber, for a of time in which to achieve thermal ny case, this period shall not be less		Р
	switch keepii recove	ned on and ng the equi	period the equipment shall be a performance check is carried out, pment at the low temperature. After formance check is repeated at apperature.	Performance check was passed under low temperature condition and normal room temperature condition.	Р
	test, tl	he equipme	requirements: during and after the ent shall work as intended and withir (Performance criterion A)		
13.4.5	Dry heat tes	st			
	This to		d out in accordance with EN 60068-		Р



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	Pailway	applications – Electronic equip		rolling stock (EN: 50155:2017)	
CI.	1	ement-Test	inent used on	Result-Remark	Verdict
Oi.	The ter the tem operation (table 1	nperature value for this test is de apperature class and the switch-ong temperature class of equipment and table 2)	n extended ent under test	Class OT2 and ST2 used according to manufacturer: 55 °C, Test cycle C,	P
	Class ST0	Switch-on extended operating temperature (duration: 10 min)  No switch-on extended operating temperature	Thermal test cycle See 13.4.5		
	ST1	OTx +15 °C OTx +15 °C	Test cycle B Test cycle C		
<b>13.4.5.2</b> - Cycle A	where to maximum once to this per equipm 6 h with max. op	tched off equipment is placed in the temperature is progressively um operating temperature (T <sub>TEST</sub> the temperature has stabilised, living shall not be less than 2 h, the tent is switched on and left for an continuous operational check coerating temperature T <sub>TEST</sub>	raised to the r) n any case, en the time period of carried out at to ambient	Class ST2	N/A
	out after	ature and a further performance or the stabilization time. Ecceptance requirements: during a de equipment shall work as intend cified limits (Performance criterio	and after the ded and within		
<b>13.4.5.3-</b> Cycle B	where the maximum once the this per equipm 6 h with max. open once the maximum once the max	tched off equipment is placed in the temperature is progressively um operating temperature (T <sub>TEST</sub> ) the temperature has stabilised, I find shall not be less than 2 h, the lent is switched on and left for an continuous operational check coerating temperature (T <sub>TEST</sub> ). The state is complete, a continuous of scarried out with the 10 min over	raised to the raised to the r) n any case, en the time period of carried out at	Class ST2	N/A
	The equatempers out after Test actions, the	ature value.  uipment is then allowed to cool to ature and a further performance or the stabilization time.  Exceptance requirements: during a see equipment shall work as intendictified limits (Performance criterio	test is carried and after the ded and within		



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SGS

Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017) CI. Requirement-Test Result-Remark Verdict Р 13.4.5.4-The switched off equipment is placed in a chamber 70 °C, 10 min. and 55 °C, 6 h; cycle C where the temperature is progressively raised to the Performance check was extended operating temperature (T<sub>TEST</sub>+15°C) passed under dry heat according to the selected temperature class. condition and normal room temperature condition. Once the temperature has stabilised, In any case, this period shall not be less than 2 h, then the equipment is switched on and continuous operation check are carried out at this extended operating temperature value for 10 min. Equipment is then allowed to cool to the max. operating temperature (TTEST) and continuous operation check last or a time period of 6 h. The equipment is then allowed to cool to ambient temperature and a further performance test is carried out after the stabilization time. Test acceptance requirements: during and after the test, the equipment shall work as intended and within its specified limits (Performance criterion A) 13.4.6 Low temperature storage test Where the equipment is to be subjected to Р temperatures less than its minimum operating temperature, then a low temperature storage test may be carried out. This test shall be carried out in accordance with EN 60068-2-1 (test Ab) Equipment without packaging is placed, without any voltage applied, in a test chamber. The temperature value for the test shall be -40°C and the time period after stabilization shall be 16 h minimum. After recovery, a performance test shall be carried out at the ambient reference temperature. Test acceptance requirements: Performance check was passed under normal room After recovery, the equipment shall work as intended temperature condition. and within its specified limits (performance criterion A) 13.4.7 Cyclic damp heat test This test is carried out in accordance with EN 60068-2-30, test Db variant 2. The equipment under test shall not be powered except during operational check. Temperatures: + 55°C and +25°C Number of cycles: 2 Time: (2 x24 )h



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	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
	Test acceptance requirements:  The results of all insulation and performance test (result after the first and second cycles) shall be within the specified tolerances and operation performance respectively.  Before and after the test (initial and final voltage withstand and insulation), the equipment shall work as intended and within its specified limits (Performance criterion A)	Performance check was passed under Before and after the test.  Operation check was passed under the rise in temperature during the beginning of the second cycles at 35°C  Insulation was passed under Before and after the test	P
13.4.9 Ins	ulation test		
13.4.9.1	The test shall be carried out on fully assembled parts of equipment, and/or complete equipments dependent upon the scope of supply.  The test comprises two parts, an insulation measurement test (carried out before and after the voltage withstand test), and the voltage withstand test.		Р
	Insulation measurement shall be carried out at the integration level of equipment under test.		Р
	Voltage withstand test shall be performed on concerned electronic equipment. Each equipotential area shall be defined and test against mechanical earth and against all surrounding equipotential areas.		Р
	Insulation test against mechanical earth is not required for equipotential area formed by ELV circuits that have internal electronic 0V potential electrically connected to the mechanical earth.		N/A
13.4.9.2	Insulation measurement test		
	The insulation resistance test shall be carried out at 500 V d.c. and the values recorded.	See appended table	Р
	The test shall then be repeated after the voltage withstand test		
	Test acceptance requirements:		
	The minimum value of the insulation resistance after the withstand test shall be higher than 20MOhm. The equipment shall work as intended and within its specified limits after the insulation test.		
13.4.9.3	Voltage withstand test		



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	Railway applications – Electron	ic equipment used on	rolling stock (EN: 50155:20	17)
CI.	Requirement-Test		Result-Remark	Verdict
	Hz) or DC test voltage according	The test shall be performed with AC (50 Hz or 60 Hz) or DC test voltage according to table 14.		Р
	l able 14 — Lest voltages of volta	ge withstand test  Test voltage		
	Nominal battery voltage and/or I/O voltage	-		
	or 50 V AC rms	500 V AC or 750 V DC		
	72 V DC ≤ V DC < 125 V DC or from 50 to 90 V AC rms	1 000 V AC or 1 500 V DC		
	125 V DC ≤ V DC < 315 V DC or from 90 to 225 V AC rms	1 500 V AC or 2 200 V DC		
	The test voltage shall be applie increasing the voltage amplitude and maintained at the specified. Where part of the electronic equipment of the equipment shall be still dielectric tests as that circuit.	le to the test voltage, I level for 1 min. uipment is ver circuit, then this		
	Test acceptance requirements:			
	Neither disruptive discharge no occur. The equipment shall wo within its specified limits after the	rk as intended and		
13.4.10	Salt mist test		1	
	This test is carried out in accord EN 60068-2-11, test Ka.	dance with		N/A
	Equipment is placed, without a a test camber.	ny voltage applied, in		N/A
	The equipment should be teste which they are expected to be covers should be in position an arranged, as nearly as possible occupy in actual use.	used, i.e. protective d the equipment		N/A
	The test chamber shall be kept of the salt solution shall continu during the whole conditioning p recovery, operational check is	ne without interruption period of 48 h. After		N/A
	Test acceptance requirements:			
	<ul><li>visual inspection;</li></ul>			
	an operational check shall n damage. The equipment shall within its specified limit.			
13.4.11	Vibration and Shock test			•





CI.	Requirement-Test	Result-Remark	Verdict
13.4.11.1	The complete cubicle or rack together with its auxiliaries and mounting arrangements (including its shock-absorbing devices if the equipment is designed for mounting on such devices) shall be subjected to the tests indicated in EN 61373.		Р
	During the simulated long life testing the equipment shall not be operating; during the other tests the equipment shall be functional and its performance shall be monitored.		
13.4.11.2	Simulated long life testing	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 9.	Category 1, Class B. X axis, Y axis, Z axis RMS= 5,72 (m/s²)	
	Test acceptance requirements:	After test, the unit shows no	
	- no damage shall be visible after the test	visible damage. Function	
	- after the test, the equipment shall work as intended and within its specified limits.	check Pass.	
13.4.11.3	Shocking test	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 10.	Category 1, Class B. Vertical: ±50 m/s <sup>2</sup>	
	Half-sinusoidal shocks test shall be carried out on a powered functional equipment.	Transverse: ±50 m/s <sup>2</sup> Longitudinal: ±50 m/s <sup>2</sup>	
	Test acceptance requirements:	During and after test, the unit	
	- no damage shall be visible after the test	shows no visible damage. Function check Pass.	
	- during the test, the equipment is monitored and shall work as intended and within its specified limits. (Performance criterion A)	T and an and an and an	
13.4.11.4	Functional random vibration test	according to manufacturer	Р
	Test shall be carried out according to EN 61373: 2010, clause 8.	Category 1, Class B. X axis, Y axis, Z axis RMS= 1,01 (m/s²)	
	Test acceptance requirements:	During and after test, the unit	
	- no damage shall be visible after the test	shows no visible damage.	
	- during the test, the equipment is monitored and shall work as intended and within its specified limits. (Performance criterion A)	Function check Pass.	
13.4.12 En	closure protection test (IP code)		•
	As electronic equipment is generally mounted either inside the body of the vehicle or in boxes outside (e.g. Locations 1, 2 and 3 according to Table C.1), there is no need to carry out enclosure protection tests, apart form exceptional cases;this has to be defined between the user and the supplier (EN 60529 may be used as a guide).		N/A



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	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)				
CI.	Requirement-Test	Result-Remark	Verdict		
	The user may require an equipment stress screening test procedure to be applied to completed equipment or a part of it, for the purpose of eliminating dormant manufacturing or component defects.		N/A		
	The procedure may include:				
	—operation at elevated temperature;				
	—thermal cycling;				
	-vibration.				
	As appropriate to the equipment under consideration, the process, and the tests to be applied to the equipment, shall be agreed at the time of tender between involved parties.				
	To carry out this stress screening test, EN 61163-1:2016, B.2 may be used as a guide.				
13.4.14 Rap	13.4.14 Rapid Temperature variation test				
	The test specification and the test procedure shall be agreed between the involved parties.		N/A		



# Appended table (Test Results):

Table 13.4.3					Р		
13.4.3.2 Supply variations test:							
Input voltage	Test cond	Test condition			Performance criterion	Test result	
0,7 Un (16,8 Vd.c.)	Normal co	ndition		2 min	Α	Р	
Un (24 Vd.c.)	Normal co	Normal condition			Α	Р	
1,25 Un (30 Vd.c.)	Normal co	Normal condition			Α	Р	
13.4.3.3 Temporary supp	ly overvoltag	je/dips					
Input voltage	Intervals	Test times	Test condition		Performance criterion	Test result	
Un -1,4 Un	10s	10	The EUT is supplied at rated voltage and connect to the PC online surveillance, the picture can be		Α	Р	
(24 Vd.c33,6 Vd.c.) Duration 0,1s							
Un -1,4 Un	10s	10			В	Р	
(24 Vd.c33,6 Vd.c.)			shown on F	C.			
Duration 1s							
Un -0,6 Un -Un	10s	10			Α	Р	
24 Vd.c14,4 Vd.c24 Vd.c. Duration 0,1s							



13.4.3.4 interruption of voltage Supply test:				Р		
Input voltage	Intervals	Test times	Test condition	Class	Performance criterion	Test result
Un – 0 - Un (24 Vd.c. – 0 – 24 Vd.c.) Duration 10ms	10s	10	The EUT is supplied at rated voltage and connect to the PC online surveillance, the picture can be shown on PC.	S2	A	Р
13.4.3.5 Supply change over test:					Р	
Input voltage	Intervals	Test times	Test condition	Class	Performance criterion	Test result
Un -0,6 Un -Un 24 Vd.c14,4 Vd.c24 Vd.c. Duration 0,1s	10s	10	The EUT is supplied at rated voltage and connect to the PC online surveillance, the picture can be shown on PC.	C1	A	Р

Table 13.4.9.2 Insulation test before Voltage withstand test				Р
Insulation resistan	on resistance R between: R (MΩ) Required R			R (MΩ)
DC input terminal to metal enclosure		>100	20	
DC input terminal to Ethernet port		>100	20	)

Table 13.4.9.3	Table 13.4.9.3 Voltage withstand test				
Test voltage appli	rest voltage applied between:		Test voltage (V) Breakdown		
DC input terminal to metal enclosure		500 Va.c.	No		
DC input terminal	to Ethernet port	500 Va.c.	No	)	

Table 13.4.9.2 Insulation test after Voltage withstand test				Р
Insulation resistan	ulation resistance R between: R (MΩ) Required		R (MΩ)	
DC input terminal to metal enclosure		>100	20	
DC input terminal to Ethernet port		>100	20	)



# **Photo documents:**

## Details of:



## Details of:





Details of: DC input terminal



## Details of:

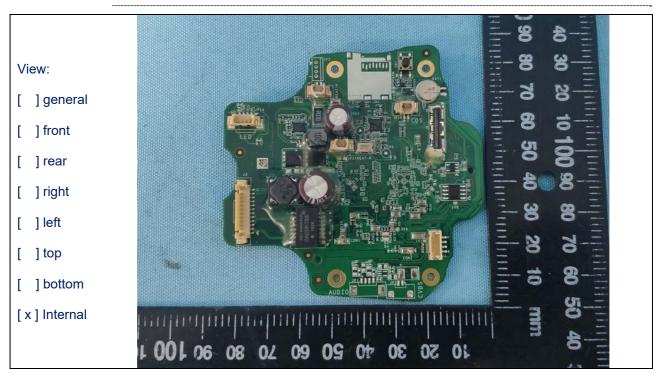




## Details of:

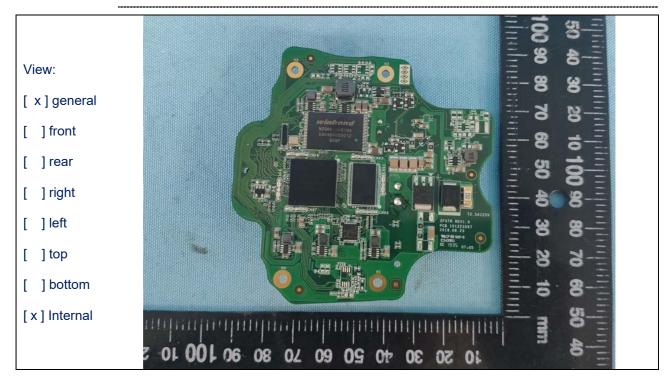


Details of: PWB





Details of: PWB



--- End of Report ---