### Page 1 of 22

# 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 – Electro	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)						
Report Reference No:	GZES190401537302						
Tested by (name + signature):	Ben Tangen Tang						
Approved by (+ signature):	Anlay Dong Anlay Dong						
Date of issue:	2019-04-29 J J						
	Amendment-1 2019-6-28						
Total number of pages:	22 电力电气头粒至 金						
Testing Laboratory	SGS-CSTC Standards Technical Services Co. Ltdk Guangzhou Branch						
Address:	198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China						
Applicant's name:	Hangzhou Hikvision Digital Technology Co., Ltd						
Address:	No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China						
Test specification:							
Test procedure:	Railway applications – Electronic equipment used on rolling stock						
	(EN: 50155:2017)						
Non-standard test method:	(EN: 50155:2017) None						
Non-standard test method: Test Report Form No							
	None						
Test Report Form No	None EN50155_D						

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Test item description	Network Camera
Model/Type reference:	DS-2XM6756G0-IS/ND, DS-2XM6756G0-IS/NDUHK,
	DS-2XM6756G0-IS/NDCKV, DS-2XM6736G0-IS/ND,
	DS-2XM6736G0-IS/NDUHK, DS-2XM6736G0-IS/NDCKV,
	DS-2XM6726G0-IS/ND, DS-2XM6726G0-IS/NDUHK,
	DS-2XM6726G0-IS/NDCKV, DS-2XM6756G0-IM/ND,
	DS-2XM6756G0-IM/NDUHK, DS-2XM6756G0-IM/NDCKV,
	DS-2XM6736G0-IM/ND, DS-2XM6736G0-IM/NDUHK,
	DS-2XM6736G0-IM/NDCKV, DS-2XM6726G0-IM/ND,
	DS-2XM6726G0-IM/NDUHK, DS-2XM6726G0-IM/NDCKV
Ratings	Powered by stabilized PoE (36 – 57 Vd.c.)
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, Jianqiao Industrial Park, Dadukou District, Chongqing.

### 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-2XM6756G0-IS/ND was selected for test as representative.

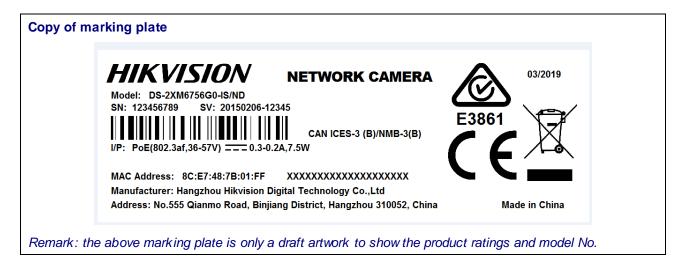
Stabilized PoE power source was used for test, all the performance checks were carried out at both 36Vd.c. and 57Vd.c. input.



ts performed:		_	
Selected verdict	Sub- clause	Test name	Reference test method standard
$\boxtimes$	13.4.1	Visual inspection test	
$\boxtimes$	13.4.2	Performance test	
	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*	EN 60068-2-1:2007 (test Ab)
	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)
$\boxtimes$	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.





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)
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- test object does meet the requirement ...... P (Pass)

- test object does not meet the requirement ...... F (Fail)

Testing .....

Date of receipt of test item...... 2019-04-17

Date (s) of performance of tests ...... 2019-04-17 to 2019-04-26

### **General remarks:**

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the lss uing testing laboratory. "(see Enclosure #)" refers to additional information appended to the report. "(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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# General product information:

Function:	Network Camera main function is collecting real-time
	video signals, Power by stabilized PoE then through
	Ethernet port transmission to PC online surveillance
Power Source:	Stabilized Power over Ethernet
Installation:	Used on rolling stock inside railway vehicles,
	body mounted
Construction:	Metal enclosure fixed by screws
Accessories:	No
Altitude	A1 (default requirement) ; A2 A3 AX
Operation temperature:	OT1 OT2 OT3 (default requirement)
Switch-on extended operating	ST0 ST1 (default requirement), ST2, NA
temperature:	
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	$\Box$ S1 $\Box$ S2 (default requirement), $\Box$ S3 $\boxtimes$ N/A
Supply change-over	C1 default requirement, C2 X/A
Documentation	Class M M0 default requirement,

### Model differences:

All models are identical except model name, trade name, and or appearance.

History:

Original report no. GZES190401537301 issued on 2019-4-29;

Amendment-1 report no. GZES190401537302 issued on 2019-6-28 with adding reference test method standard "Tests performed" on page 3.



	Railway applications - Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.1 Visu	ial inspection		
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 Per	formance test		1
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 PoE power, 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.		Ρ
13.4.3 Pow	/er 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.	powered by stabilized PoE	N/A
	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.	powered by stabilized PoE	N/A



	Railway applications - Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
13.4.3.2	Supply variations DC power supply range: Tests shall be performed to prove correct functioning for the voltage range.	powered by stabilized PoE	N/A
	Temporary supply overvoltage up to 1.4Un lasting no more than 0.1s shall not cause deviation of function (performance criterion A)		
	Voltage V DC 1,4 Un Un <u>&lt;10 ms</u> 100 ms <u>&lt;10 ms</u> Time		
	Figure 6 — Temporary supply overvoltages (a)		
	Temporary supply overvoltage up to 1.4Un lasting no more than 1s shall fulfil performance criterion B	powered by stabilized PoE	N/A
	Voltage V DC 1,4 Un Un Un <u>&lt;100 ms</u> 1 s <u>&lt;100 ms</u> Time		
	Figure 7 — Temporary supply overvoltages (b)		
13.4.3.3	Temporary supply dips Temporary supply dips down to 0.6Un not exceeding 0.1s shall not cause deviation of function (performance criterion A)	powered by stabilized PoE	N/A
	Voltage V DC Un 0.6 Un $\leq 10$ ms 100 ms $\leq 10$ ms		
	Figure 8 — Temporary supply dips		



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	Railw	ay applications – Electron	nic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requ	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		powered by stabilized PoE	N/A	
	51 52 53 <b>Test</b>	No performance criterion is requested but the equipment shall continue to operate as specified after the voltage interruption. The equipment shall behave according performance criterion A. The equipment shall behave according performance criterion A.	20 ms	powered by stabilized PoE	N/A
	the c	oltage interruption longer lass, equipment shall beh rding performance criterio	n C.		



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	Railway applicat	ions – Electronic equipment used o	n rolling stock (EN: 50155:2017)		
CI.	Requirement-Te	st	Result-Remark	Verdict	
13.4.3.5	conditions: - Class C1 interruptions - Class C2	over shall operate satisfactorily under : at 0.6Un during 100ms (without s) Performance criterion A; : during a supply break of 30 ms Jn. Performance criterion B figure 10 - Supply change-over Class C1 Figure 11 - Supply change-over Class C2	powered by stabilized PoE	N/A	
13.4.4 Lov	w temperature sta				
	-	ied out in accordance with EN 60068	3-	Р	
	Equipment is placed, without any voltage applied, in a test chamber.				
	temperature cla (T <sub>TEST</sub> )shall be ta	I be tested according to its operating ss, low operating temperature aken from Table 1. Operating temperature classe	manufacturer: - 40 °C	Р	
	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			



		i age i	0 01 22	Report No. GZES 19040	1001002
	Railway	v applications – Electronic equi	pment used o	n rolling stock (EN: 50155:2017)	
CI.	Require	ement-Test		Result-Remark	Verdict
	after th sufficie	uipment shall be first condition ermal stabilization of the cham nt period of time in which to ac ation. In any case, this period an 2 h.	ber, for a hieve thermal	it,	P
	switche keeping recover	end of this period the equipmer ed on and a performance check g the equipment at the low tem y, this performance check is re room temperature.	is carried out perature. Afte		P
	Test acceptance requirements: during and after the test, the equipment shall work as intended and within its specified limits (Performance criterion A)				
13.4.5 Dry	heat tes	t			
	This tes 2-2, tes	st is carried out in accordance st Be	with EN 6006	8-	Р
	the terr operation (table 1	nperature value for this test is of nperature class and the switch- ng temperature class of equipm and table 2) able 2 – Switch-on extended Operating tempera Switch-on extended operating temperature	on extended nent under tes	Class OT2 and ST2 used according to manufacturer: 55 °C, Test cycle C,	P
	ST0 ST1 ST2	(duration: 10 min)       No switch-on extended operating temperature       OTx +15 °C       OTx +15 °C	See 13.4.5 Test cycle A Test cycle B Test cycle C		
<b>13.4.5.2 -</b> Cycle A	the switched off equipment is placed in a chamber where the temperature is progressively raised to the maximum operating temperature (T <sub>TEST</sub> )			N/A	
	Once the temperature has stabilised, In any case, this period shall not be less than 2 h, then the equipment is switched on and left for a time period of 6 h with continuous operational check carried out at max. operating temperature $T_{TEST}$				
	The equipment is then allowed to cool to ambient temperature and a further performance test is carried out after the stabilization time.			d	
	test, th	cceptance requirements: during e equipment shall work as inte ts specified limits (Performance	nded and		



	Railway applications - Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
<b>13.4.5.3-</b> Cycle B	the switched off equipment is placed in a chamber where the temperature is progressively raised to the maximum operating temperature ( $T_{\text{TEST}}$ )	Class ST2	N/A
	Once the temperature has stabilised, In any case, this period shall not be less than 2 h, then the equipment is switched on and left for a time period of 6 h with continuous operational check carried out at max. operating temperature ( $T_{TEST}$ ).		
	once this test is complete, a continuous operation check is carried out with the 10 min over-temperature value.		
	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)		
13.4.5.4- cycle C	The switched off equipment is placed in a chamber where the temperature is progressively raised to the extended operating temperature ( $T_{TEST}$ +15°C) according to the selected temperature class.	70 °C, 10 min. and 55 °C, 6 h; Performance check was passed under dry heat condition and normal room	Р
	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.	temperature condition.	
	Equipment is then allowed to cool to the max. operating temperature ( $T_{TEST}$ ) 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 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)		N/A



	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	-
CI.	Requirement-Test	Result-Remark	Verdict
	Equipment without packaging is placed, without any voltage applied, in a test chamber.		N/A
	The temperature value for the test shall be -40 $^\circ\!\mathrm{C}$ 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:		N/A
	After recovery, the equipment shall work as intended and within its specified limits (performance criterion A)		
13.4.7 C	yclic damp heat test		
	This test is carried out in accordance with EN 60068- 2-30, test Db variant 2.		Ρ
	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		
	Test acceptance requirements:	Performance check was	Р
	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	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	
	(Performance criterion A)	Before and after the test	
13.4.9 In	sulation 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.		Р
	The test comprises two parts, an insulation measurement test (carried out before and after the voltage withstand test), and the voltage withstand test.		
	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



	Railway applications – Electror	nic equipment used on I	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test		Result-Remark	Verdict
<u></u>	Insulation test against mechan required for equipotential area f that have internal electronic OV connected to the mechanical e	ormed by ELV circuits potential electrically	Insulation test against mechanical earth is not required for ALARM Port internal electronic 0V potential electrically connected to the mechanical earth.	P
13.4.9.2	Insulation measurement test			
	The insulation resistance test s 500 V d.c. and the values reco	See appended table	Р	
	The test shall then be repeated withstand test	after the voltage		
	Test acceptance requirements:			
	The minimum value of the insu the withstand test shall be high equipment shall work as intend specified limits after the insulat	her than 20MOhm. The led and within its		
13.4.9.3	Voltage withstand test			·
	The test shall be performed wit or DC test voltage according to I able 14 – Test voltages of volta	See appended table	Р	
	Nominal battery voltage and/or I/O voltage	Test voltage		
	< 72 V DC 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 applied increasing the voltage amplitude and maintained at the specified Where part of the electronic equipart of the equipment shall be dielectric tests as that circuit.	le to the test voltage, d level for 1 min. uipment is wer circuit, then this		
	Test acceptance requirements			
	Neither disruptive discharge no The equipment shall work as in specified limits after the withsta	tended and within its		
13.4.10 Sal	t mist test			
	This test is carried out in accor EN 60068-2-11, test Ka.	rdance with		N/A
	Equipment is placed, without a a test camber.	ny voltage applied, in		N/A



	Railway applications – Electronic equipment used on	rolling stock (EN: 50155:2017)	
CI.	Requirement-Test	Result-Remark	Verdict
	The equipment should be tested in the manner in which they are expected to be used, i.e. protective covers should be in position and the equipment arranged, as nearly as possible, in the position it will occupy in actual use.		N/A
	The test chamber shall be kept closed and spraying of the salt solution shall continue without interruption during the whole conditioning period of 48 h. After recovery, operational check is carried out.		N/A
	Test acceptance requirements:		
	— visual inspection;		
	— an operational check shall not show any failure or damage. The equipment shall work as intended and within its specified limit.		
13.4.11 Vit	oration and Shock test		
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.		P
	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	
	<ul> <li>after the test, the equipment shall work as intended and within its specified limits.</li> </ul>	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/s2	
	Half-sinusoidal shocks test shall be carried out on a powered functional equipment.	Transverse: ±50 m/s2 Longitudinal: ±50 m/s2	
	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)		



	Railway applications – Electronic equipment used on		N/2 P 4
CI.	Requirement-Test	Result-Remark	Verdict
13.4.11.4	Functional random vibration test	according to manufacturer Category 1, Class B.	Р
	Test shall be carried out according to EN 61373: 2010, clause 8.	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
13.4.13 St	ress screening test		
	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 Ra	pid 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					N/A			
13.4.3.2 Supply variations test:								
Input voltage	Test condition		Duration	Performance criterion	Test result			
13.4.3.3 Temporary supply	13.4.3.3 Temporary supply overvoltage/dips							
Input voltage	Intervals	als Test times Test condition		on	Performance criterion	Test result		



13.4.3.4 interruption of voltage Supply test:					N/A		
Input voltage	Input voltage Intervals Test Test condition Class Performance criterion						
13.4.3.5 Supply change over test:						N/A	
Input voltage	Intervals	Test times	Test condition	Class	Performance criterion	Test result	

Table 13.4.9.2	2 Insulation test			
Insulation resistance R between: R (MΩ)			Required R (MΩ)	
POE terminal to m	etal enclosure	>100	20	
POE terminal to or	utput terminal	>100	20	

Table 13.4.9.3	9.3 Voltage withstand test				
Test voltage applie	d between:	Test voltage (V)	Breakdown		
POE terminal to m	etal enclosure	500 VAC	No		
POE terminal to ou	utput terminal	500 VAC	No		

Table 13.4.9.2	ble 13.4.9.2 Insulation test after Voltage withstand test				
Insulation resistant	ce R between:	R (MΩ)	Required R (MΩ)		
POE terminal to m	etal enclosure	>100	20		
POE terminal to or	utput terminal	>100	20	)	



# Photo documents:





# Details of:

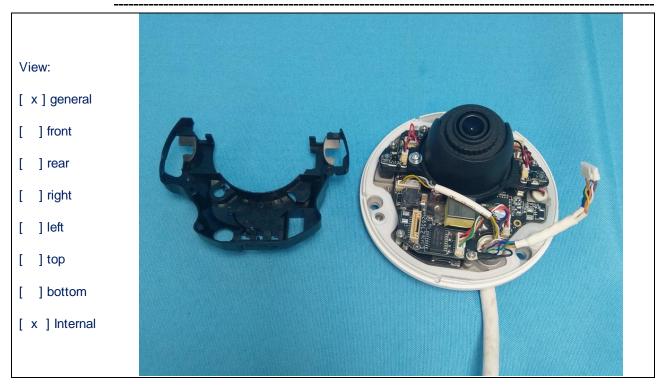




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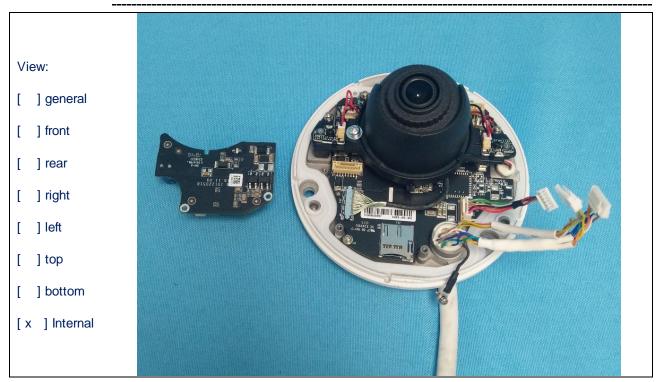
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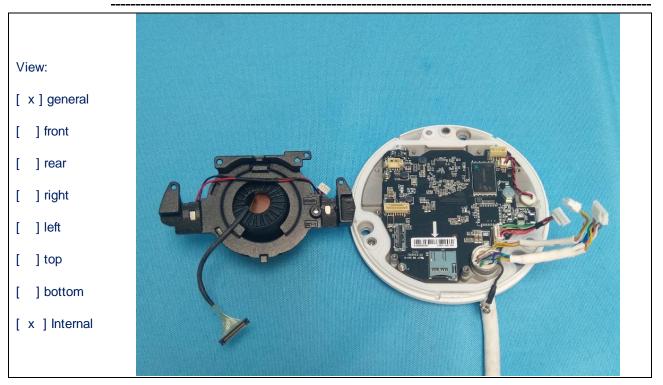
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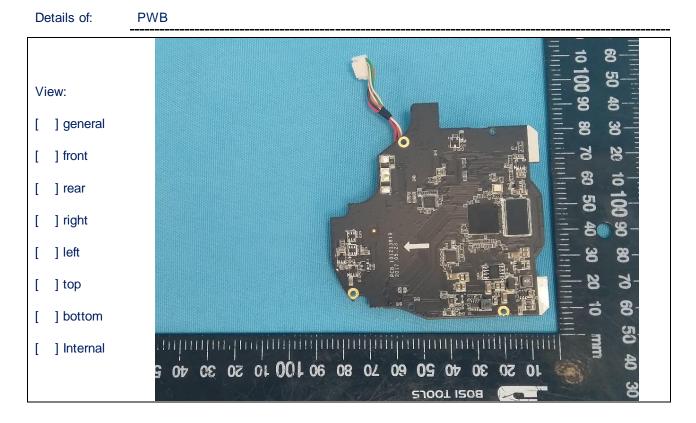
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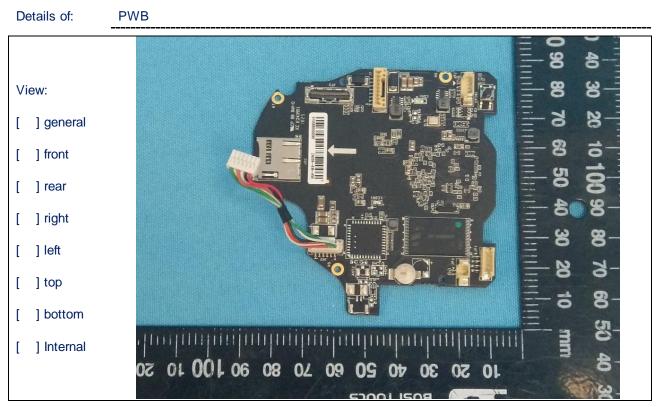


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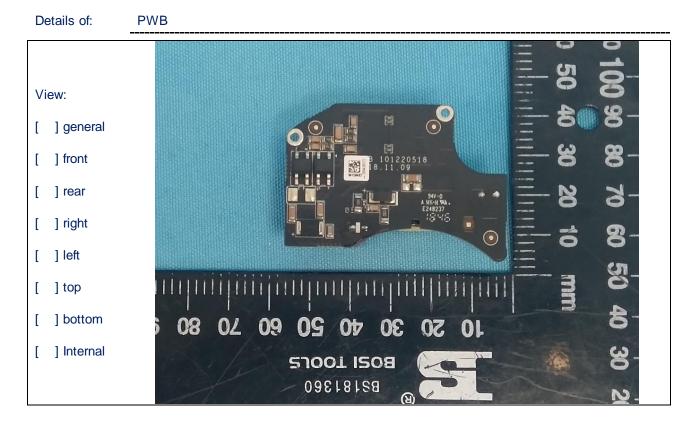


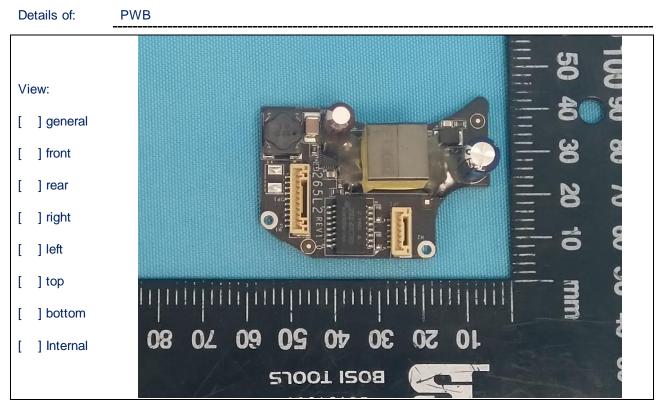




TRF No. EN50155\_D







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