

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. ...... GZES191102767202

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

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

Date of issue ...... 2020-01-07

Amendment-1: 2020-11-06

Total number of pages...... 9

Testing Laboratory...... SGS-CSTC Standards Technical Services

**Guangzhou Branch** 

Development Area, Guangzhou, Guangdong, China

Address....... No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

**Test specification:** 

(EN: 50155:2017)

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

Test Report Form No...... EN50155\_D

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-2XM6112G0-I/ND, DS-2XM6112G0-I/NDUHK, DS-2XM6112G0-I/NDCKV, DS-2XM6112G0-I/NDUVS, DS-2XM6112G0-I/NDKVO, DS-2XM6112G0-I/NDHUN, DS-2XM6112G0-IM/ND, DS-2XM6112G0-IM/NDUHK, DS-2XM6112G0-IM/NDCKV, DS-2XM6112G0-IM/NDUVS, DS-2XM6112G0-IM/NDKVO, DS-2XM6112G0-IM/NDHUN, DS-2XM6122G0-I/ND, DS-2XM6122G0-I/NDUHK, DS-2XM6122G0-I/NDCKV, DS-2XM6122G0-I/NDUVS, DS-2XM6122G0-I/NDKVO, DS-2XM6122G0-I/NDHUN, DS-2XM6122G0-IM/ND, DS-2XM6122G0-IM/NDUHK, DS-2XM6122G0-IM/ND, DS-2XM6122G0-IM/NDUHK, DS-2XM6122G0-IM/NDCKV, DS-2XM6122G0-IM/NDUVS



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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, 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).

Model DS-2XM6112G0-I/ND was selected for test as representative.

After reviewed, tests of clause 13.4.4 and 13.4.5 are needed to be considered in this report.

#### **Tests performed:**

Selected verdict	Sub- clause	Test name	Reference test method standard
	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)

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.

#### **Test location:**

Name: SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Address:198 Kezhu Road, Science City, Economic & Technology Development Area, Guangzhou, Guangdong, China

# Copy of marking plate

Refer to previous test report



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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 .....2020-11-01

Date (s) of performance of tests ......2020-11-01 to 2020-11-03

#### **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 stabilized PoE then through
	Signal terminal 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	$\triangle A1$ (default requirement); $\triangle A2$ $\triangle A3$ $\triangle AX$
Operation temperature:	□OT1 □OT2 ☑OT3 (default requirement)
	□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
Supply change-over	⊠C1 default requirement, □C2 □ N/A
Documentation	□class M □M0 default requirement,
Model differences:	
All models are identical except mo	delineare and extreme constant



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#### Amendment-1:

Test report No. GZES191102767201 dated on 2020-01-07, was modified on 2020-11-06 with following updated and changes:

1. Removed the following models:

DS-2XM6112FWD-I/ND, DS-2XM6112FWD-I/NDUHK, DS-2XM6112FWD-I/NDCKV,

DS-2XM6112FWD-I/NDUVS, DS-2XM6112FWD-I/NDKVO, DS-2XM6112FWD-I/NDHUN,

DS-2XM6112FWD-IM/ND, DS-2XM6112FWD-IM/NDUHK, DS-2XM6112FWD-IM/NDCKV,

DS-2XM6112FWD-IM/NDUVS, DS-2XM6112FWD-IM/NDKVO, DS-2XM6112FWD-IM/NDHUN,

DS-2XM6122FWD-I/ND, DS-2XM6122FWD-I/NDUHK, DS-2XM6122FWD-I/NDCKV,

DS-2XM6122FWD-I/NDUVS, DS-2XM6122FWD-I/NDKVO, DS-2XM6122FWD-I/NDHUN,

DS-2XM6122FWD-IM/ND, DS-2XM6122FWD-IM/NDUHK, DS-2XM6122FWD-IM/NDCKV,

DS-2XM6122FWD-IM/NDUVS, DS-2XM6122FWD-IM/NDKVO, DS-2XM6122FWD-IM/NDHUN

2. Changed the Operation temperature from OT2 into OT3.

After reviewed, tests of clause 13.4.4 and 13.4.5 are needed to be considered in this report.

Test report No. GZES191102767202 dated on 2020-11-06 is not valid without the previous test report No. GZES191102767201 dated on 2020-01-07.



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	Railwa	y application	ons – Electronic equipment used o	n r	olling stock (EN: 50155:2017)	
CI.	Requi	rement-Tes	st		Result-Remark	Verdict
13.4.4 L	ow tempe	rature star	t-up test			
	<b>I</b>	est is carrie est Ad.	d out in accordance with EN 60068	8-		Р
	1	ment is plac 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 OT3 used according to manufacturer: - 25 °C	Р	
	Та	able 1 — (	Operating temperature classe	es		
		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	hermal stat ent period o zation. In a	hall be first conditioned by leaving bilization of the chamber, for a of time in which to achieve thermal ny case, this period shall not be les			Р
	switch keepir recove	ned on and ng the equip	period the equipment shall be a performance check is carried out pment at the low temperature. Afterformance check is repeated at apperature.		Performance check was passed under low temperature condition and normal room temperature condition.	Р
	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 C	ory heat tes	st				
	This to		d out in accordance with EN 60068	8-		Р



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	D-0	r age o c		report No. GZEG1911027	31202
	<del></del>	applications – Electronic equip	ment used on	1	1
CI.	Require	ement-Test	Result-Remark	Verdict	
	The temperature value for this test is dependent of the temperature class and the switch-on extended operating temperature class of equipment under test (table 1 and table 2)  Table 2 — Switch-on extended Operating temperature classes			Class OT3 and ST2 used according to manufacturer: 70 °C, Test cycle C,	Р
	Class	Switch-on extended operating temperature (duration: 10 min)	Thermal test cycle See 13.4.5		
	ST0	No switch-on extended operating temperature	Test cycle A		
	ST1	OTx +15 °C	Test cycle B		
	ST2 OTx +15 °C Test cycle C				
<b>13.4.5.2</b> - Cycle A	where t	tched off equipment is placed in the temperature is progressively um operating temperature (T <sub>TEST</sub>	Class ST2	N/A	
	this per equipm 6 h with	the temperature has stabilised, lifted shall not be less than 2 h, the lent is switched on and left for a nacontinuous operational check operating temperature T <sub>TEST</sub>			
	temper	quipment is then allowed to cool ature and a further performance or the stabilization time.			
	test, the	cceptance requirements: during a e equipment shall work as intend cified limits (Performance criterio	ded and within		
<b>13.4.5.3</b> - Cycle B	where t	tched off equipment is placed in the temperature is progressively um operating temperature ( $T_{\text{TEST}}$	Class ST2	N/A	
	this per equipm 6 h with	the temperature has stabilised, lining shall not be less than 2 h, the lent is switched on and left for a national check operating temperature (T <sub>TEST</sub> ).			
	check i	is test is complete, a continuous s carried out with the 10 min over ature value.			
	temper	uipment is then allowed to cool t ature and a further performance er the stabilization time.			
	test, the	cceptance requirements: during a e equipment shall work as intend cified limits (Performance criterio	ded and within		



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	Railway applications – Electronic equipment used on rolling stock (EN: 50155:2017)						
CI.	Requirement-Test	Result-Remark	Verdict				
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 <sub>TEST</sub> +15°C) according to the selected temperature class.  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	85 °C, 10 min. and 70 °C, 6 h; Performance check was passed under dry heat condition and normal room temperature condition.	Р				
	temperature value for 10 min.  Equipment is then allowed to cool to the max. operating temperature (T <sub>TEST)</sub> 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)						

--- End of Report ---



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