Test Report issued under the responsibility of:



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

TEST REPORT Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces (EN ISO: 13732-1: 2008, ISO 13732-1:2006 (E))				
Report Reference No	GZES200201132541			
Tested by (name + signature):	Chico La Ca			
Approved by (+ signature):	Chico La Lin			
Date of issue:	2020-03-13			
Total number of pages	12 高兴电子电气实验室			
Testing Laboratory	SGS-CSTC Standards Technical Services Co., Ltd. Gnandzhou 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:	Ergonomics of the thermal environment — Methods for the assessment of human responses to contact with surfaces (EN ISO: 13732-1: 2008, ISO 13732-1:2006)			
Non-standard test method	None			
Test Report Form No	EN13732-1_A			
Test Report Form(s) Originator:	SGS-CSTC			
Master TRF	2018-04-03			



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Test item description Ne	twork Camera
Model/Type reference DS DS DS DS DS DS DS DS DS DS DS DS DS D	-2XM6522G0-I/ND, DS-2XM6512G0-I/ND, -2XM6512G0-I/NDUHK, DS-2XM6512G0-I/NDCKV, -2XM6512G0-I/NDHUN, DS-2XM6512G0-IM/ND, -2XM6512G0-IM/NDUHK, DS-2XM6512G0-IM/NDCKV, -2XM6512G0-IM/NDUHK, DS-2XM6512G0-IM/NDKVO, -2XM6512G0-IM/NDHUN, DS-2XM6522G0-I/ND, -2XM6522G0-I/NDUHK, DS-2XM6522G0-I/NDCKV, -2XM6522G0-I/NDUVS, DS-2XM6522G0-I/NDCKV, -2XM6522G0-I/NDUVS, DS-2XM6522G0-IM/ND, -2XM6522G0-I/NDUHK, DS-2XM6522G0-IM/ND, -2XM6522G0-I/NDUHK, DS-2XM6522G0-IM/NDCKV, -2XM6522G0-IM/NDUHK, DS-2XM6522G0-IM/NDCKV, -2XM6522G0-IM/NDUHK, DS-2XM6522G0-IM/NDCKV, -2XM6522G0-IM/NDUHK, DS-2XM6512WD-I/NDCKV, -2XM6512WD-I/NDUHK, DS-2XM6512WD-I/NDCKV, -2XM6512WD-I/NDUHK, DS-2XM6512WD-I/NDCKV, -2XM6512WD-I/NDUHK, DS-2XM6512WD-I/NDCKV, -2XM6512WD-I/NDUHK, DS-2XM6512WD-I/NDCKV, -2XM6512WD-I/NDHUN, DS-2XM6512WD-IM/NDCKV, -2XM6512WD-IM/NDUHK, DS-2XM6512WD-IM/NDCKV, -2XM6512WD-IM/NDUHK, DS-2XM6512WD-IM/NDCKV, -2XM6512WD-IM/NDUHK, DS-2XM6512WD-IM/NDCKV, -2XM6512WD-IM/NDUHK, DS-2XM6512WD-IM/NDCKV, -2XM6512WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDHUN, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-I/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-I/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCKV, -2XM6522WD-IM/NDUHK, DS-2XM6522WD-IM/NDCK



Ratings	: PoE (36 Vd.c. – 57 Vd.c.); 0,25 A – 0,15 A; 8,8 W			
Brand name	HIKVISION			
Manufacturer	Same as applicant			
Factory Hangzhou Hikvision Technology Co., Ltd. No.700, Dongliu Road, Binjiang District, Hangzhou Ctiy, Zhe 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:				
	eed for risk of burning, according to the requirements of Methods for to contact with surfaces (EN ISO: 13732-1: 2008, ISO 13732-			
When determining the test conclusion	n, the Measurement Uncertainty of test has been considered.			
Model DS-2XM6522G0-I/ND was sele	ected for test as representative.			
Stabilized PoE power source was use	ed for test.			
Test for assessment of risk of burning].			
The max. recommended temperature	is 55 °C by manufacturer.			
Tests performed:				
Selected Sub-clause verdict	Test name			
5	Assessment of risk of burning			
Convert marking plate				
Copy of marking plate				
SN.: C12345678	AMERA 22G0-I/ND 3-57V)== 0.25-0.15A,8.8W			
SV: V5.5.83_19021 MAC: 58:03:FB:2 CAN ICES-3(B)/NM	2F:FF:FE 01/2020			
Remark: the above marking plate is c	only a draft artwork to show the product ratings and model No.			
Marking for other models are the sam	ne except model number.			



Possible test case verdicts:
Possible lest case veroicts

Possible test case verdicts:				
- test case does not apply to the test object N (or N/A)				
- test object does meet the requirement	ent F	P (Pass)		
- test object does not meet the requir	ement F	⁻ (Fail)		
Testing				
Date of receipt of test item	2	2020-02-10		
Date (s) of performance of tests	2	2020-02-10 to 2020-03-13		
General remarks:				
The test results presented in this rep This report shall not be reproduced, a laboratory. "(see Enclosure #)" refers to addition "(see appended table)" refers to a tal Throughout this report a comma is u	except in full, without nal information appe ble appended to the	t the written approval of the Issuing testinended to the report. report.	ıg	
General product information:				
Function:	video signals, Pow	nain function is collecting real-time er by stabilized PoE then through nsmission to PC online surveillance		
Power Source:	Stabilized Power o	ver Ethernet		
Installation: Used on rolling stock inside railway vehicles, body mounted				
Construction: Metal enclosure fixed by screws				
Model differences: All models are identical except mode	I name and software	e version.		



CI.	Requirement-Test	Result-Remark	Verdict
4	Burn thresholds		
4.1	General		Р
4.2	Burn threshold data		Р
4.2.1	Burn thresholds for contact periods between 0,5 s and 10 s		Р
4.2.1.1	General		Р
4.2.1.2	Uncoated metals		N/A
4.2.1.3	Coated metals	The product surface is coated metal, coated by powder (60 µm)	Р
4.2.1.4	Ceramics, glass and stone materials		N/A
4.2.1.5	Plastics	Camera cover	Р
4.2.1.6	Wood		N/A
4.2.2	Burn thresholds for contact periods between 10 s and 1 min	Contact periods less than 10 s	N/A
4.2.3	Burn thresholds for contact periods of 1 min and longer	Contact periods less than 10 s	N/A

5	Assessment of risk of burning		
5.1	Procedure		Р
5.2	Identification of hot, touchable surfaces		Р
5.3	Task analysis		Р
5.4	Measurements of surface temperatures	Maximum surface temperature of coated metal: 58,8 °C Maximum surface temperature of plastic: 57,4 °C	Ρ
5.4.1	Procedure		Р
5.4.2	The measuring apparatus		Р
5.5	Choice of applicable burn threshold value		Р
5.5.1	Procedure		Р

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5.5.2	Determination of contact period	Contact periods less than 1 s	Р
5.5.3	Selection of the burn threshold	69-74 ℃ for coated metal 85-93 ℃ for plastic	Р
5.6	Comparison of surface temperature and burn threshold	The surface temperature is below the burn threshold.	Р
5.7	Determination of risk of burning		Р
5.7.1	Surface temperature above the burn threshold		N/A
5.7.2	Surface temperature within the burn threshold value spread		N/A
5.7.3	Surface temperature below the burn threshold	There is in general no risk of burning	Р
5.8	Repetition		N/A

6	Protective measures		
6.1	General		N/A
6.2	No risk of burning		Р
6.3	Risk of burning		N/A

7	Guidance for setting surface temperature limit values	S
7.1	Procedure	Р
7.2	Assessment of risk of burning	Р
7.3	Decision upon protective measures	N/A
7.4	Selection of appropriate values	Р
7.5	Setting of surface temperature limit value	Р
7.5.1	Contact period between 0,5 s and 1 min	Р
7.5.2	Contact period of 1 min and longer	N/A



Data table

Assessment of risk of burning			
Product information (according to 5.2)	the soleplate/ the handle/the intermediate area/ other (detail)	the soleplate/ the handle/the intermediate area	the soleplate/ the handle/the intermediate area
Assessed surface:	Metal enclosure surface	Metal enclosure surface	
Accessibility:	Easily touchable	Easily touchable	
Temperature estimation:	Moderate	Moderate	
Surface material:	Metal, coated by powder (60 µm)	Metal, coated by powder (60 µm)	
Texture of the surface:	Smooth	Smooth	
Operating conditions:	Power by PoE (36 Vd.c.), Unit normal operation	Power by PoE (57 Vd.c.), Unit normal operation	
Task analysis (according to 5.3)			
Surface which is or may be touched:	All Surface	All Surface	
Intentional or unintentional touching:	Unintentional	Unintentional	
Persons who contact or may contact:	Adults	Adults	
Duration of contact:	1 s for healthy adults	1 s for healthy adults	
Probability of unintentional touching: –	Low during operation	Low during operation	
Frequency of intentional touching:	0	0	
Measurement of surface temperature (according to 5.4)	57,3 ℃	58,8 ℃	
Choice of applicable burn threshold (according to 5.5)	69 ℃ - 74 ℃	69 ℃ - 74 ℃	
Comparison and conclusion (according to 5.6)	Below the burn threshold	Below the burn threshold	
Result of risk assessment (according to 5.7)	No risk of burning	No risk of burning	
Application of protective measures (according to Clause 6)	N/A	N/A	



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Assessment of risk of burning			
Product information (according to 5.2)	the soleplate/ the handle/the intermediate area/ other (detail)	the soleplate/ the handle/the intermediate area	the soleplate/ the handle/the intermediate area
Assessed surface:	Plastic cover	Plastic cover	
Accessibility:	Easily touchable	Easily touchable	
Temperature estimation:	Moderate	Moderate	
Surface material:	Plastic	Plastic	
Texture of the surface:	Smooth	Smooth	
Operating conditions:	Power by PoE (36 Vd.c.), Unit normal operation	Power by PoE (57 Vd.c.), Unit normal operation	
Task analysis (according to 5.3)			
Surface which is or may be touched:	All Surface	All Surface	
Intentional or unintentional touching:	Unintentional	Unintentional	
Persons who contact or may contact:	Adults	Adults	
Duration of contact:	1 s for healthy adults	1 s for healthy adults	
Probability of unintentional touching: –	Low during operation	Low during operation	
Frequency of intentional touching:	0	0	
Measurement of surface temperature (according to 5.4)	57,0 ℃	57,4 ℃	
Choice of applicable burn threshold (according to 5.5)	85 °C - 93 °C	85 ℃ - 93 ℃	
Comparison and conclusion (according to 5.6)	Below the burn threshold	Below the burn threshold	
Result of risk assessment (according to 5.7)	No risk of burning	No risk of burning	
Application of protective measures (according to Clause 6)	N/A	N/A	



Photo documents:

Details of: View: [x] general [] front [] rear 2 9 BI 8 8 15 18 GE GE GE GE GE GE GE [] right 事题#8 60 [] left (B ol [] top [] bottom [] Internal

Details of:



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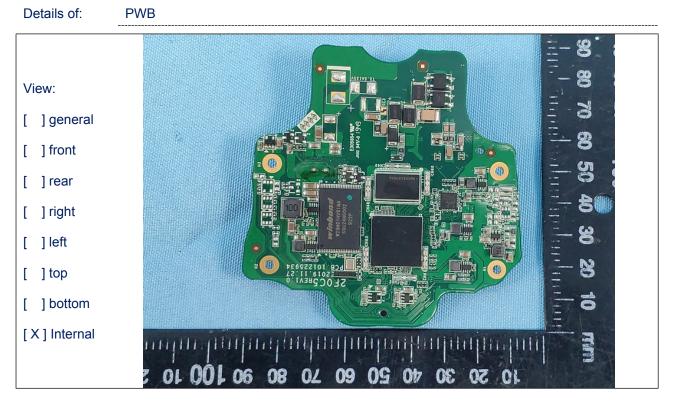


Details of:

PWB







--- End of Report ---