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)			
Report Reference No:	GZES191102767141		
Tested by (name + signature):	Chico Li Anlay Don A May Dong		
Approved by (+ signature):	Anlay Dong Dong		
Date of issue:	2020-01-07		
Total number of pages	11		
Testing Laboratory:	SGS-CSTC Standards Technical Services Co., Ltd. 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:	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	Network Camera
Model/Type reference:	DS-2XM6522G0-IDM, DS-2XM6512G0-ID,
	DS-2XM6512G0-IDUHK, DS-2XM6512G0-IDCKV,
	DS-2XM6512G0-IDUVS, DS-2XM6512G0-IDKVO,
	DS-2XM6512G0-IDHUN, DS-2XM6512G0-IDM,
	DS-2XM6512G0-IDMUHK, DS-2XM6512G0-IDMCKV,
	DS-2XM6512G0-IDMUVS, DS-2XM6512G0-IDMKVO,
	DS-2XM6512G0-IDMHUN, DS-2XM6522G0-ID,
	DS-2XM6522G0-IDUHK, DS-2XM6522G0-IDCKV,
	DS-2XM6522G0-IDUVS, DS-2XM6522G0-IDKVO,
	DS-2XM6522G0-IDHUN, DS-2XM6522G0-IDM,
	DS-2XM6522G0-IDMUHK, DS-2XM6522G0-IDMCKV,
	DS-2XM6522G0-IDMUVS, DS-2XM6522G0-IDMKVO,
	DS-2XM6522G0-IDMHUN, DS-2XM6512WD-ID,
	DS-2XM6512WD-IDUHK, DS-2XM6512WD-IDCKV,
	DS-2XM6512WD-IDUVS, DS-2XM6512WD-IDKVO,
	DS-2XM6512WD-IDHUN, DS-2XM6512WD-IDM,
	DS-2XM6512WD-IDMUHK, DS-2XM6512WD-IDMCKV,
	DS-2XM6512WD-IDMUVS, DS-2XM6512WD-IDMKVO,
	DS-2XM6512WD-IDMHUN, DS-2XM6522WD-ID,
	DS-2XM6522WD-IDUHK, DS-2XM6522WD-IDCKV,
	DS-2XM6522WD-IDUVS, DS-2XM6522WD-IDKVO,
	DS-2XM6522WD-IDHUN, DS-2XM6522WD-IDM,
	DS-2XM6522WD-IDMUHK, DS-2XM6522WD-IDMCKV,
	DS-2XM6522WD-IDMUVS, DS-2XM6522WD-IDMKVO,
	DS-2XM6522WD-IDMHUN, DS-2XM6512WD-IM,
	DS-2XM6512WD-IMUHK, DS-2XM6512WD-IMCKV,
	DS-2XM6512WD-IMUVS, DS-2XM6512WD-IMKVO,
	DS-2XM6512WD-IMHUN, DS-2XM6522WD-IM,
	DS-2XM6522WD-IMUHK, DS-2XM6522WD-IMCKV,
	DS-2XM6522WD-IMUVS, DS-2XM6522WD-IMKVO,
	DS-2XM6522WD-IMHUN



Ratings			: 24 Vd.c.; 0,36 A; 8,6 W	
Brand nam	ne		HIKVISION	
Manufactu	rer	:	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:			
			ed for risk of burning, according to the requirements of Methods for o contact with surfaces (EN ISO: 13732-1: 2008, ISO 13732-	
When dete	ermining the	e test conclusion,	the Measurement Uncertainty of test has been considered.	
Model DS	-2XM65220	G0-IDM was seled	cted for test as representative.	
DC power	source wa	s used for test.		
Test for as	ssessment	of risk of burning.		
The max.	recommen	ded temperature i	s 55 °C by manufacturer.	
Tests perf	ormed:			
	Selected verdict	Sub-clause	Test name	
		5	Assessment of risk of burning	
Copy of m	arking plate	e		
		HIKVIS NETWORK C Model: DS-2XM652 I/P: 24V=0.36A,8.	AMERA 22G0-ID	
		MAC: 58:03:FB: CAN ICES-3(B)/NM		
Remark: t	he above n	narking plate is or	nly a draft artwork to show the product ratings and model No.	



Possible test case verdicts:				
- test case does not apply to the test	objecti N (or N/A)			
- test object does meet the requirem	ent P (Pass)			
- test object does not meet the requi	rement F (Fail)			
Testing				
Date of receipt of test item	: 2019-11-16			
Date (s) of performance of tests	: 2019-12-12 to 2019-12-13			
General remarks:				
	except in full, without the written approval of the Issuing testing laboratory. nal information 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 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			

Model differences:

All models are identical except model name and software 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: 62,2 °C Maximum surface temperature of plastic: 67,1 °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 $^{\circ}$ C for coated metal 85-93 $^{\circ}$ C 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	
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:	Top of metal enclosure	Camera cover	
Accessibility:	Easily touchable	Easily touchable	
Temperature estimation:	Moderate	Moderate	
Surface material:	Metal, coated by powder (60 μm)	Plastic	
Texture of the surface:	Smooth	Smooth	
Operating conditions:	Power by 24 Vd.c., Unit under normal operation	Power by 24 Vd.c., Unit under 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)	62,2 °C	67,1 °C	
Choice of applicable burn threshold (according to 5.5)	69 °C - 74 °C	85 °C - 93 °C	
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:



Details of:



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Details of: DC input terminal



Details of:

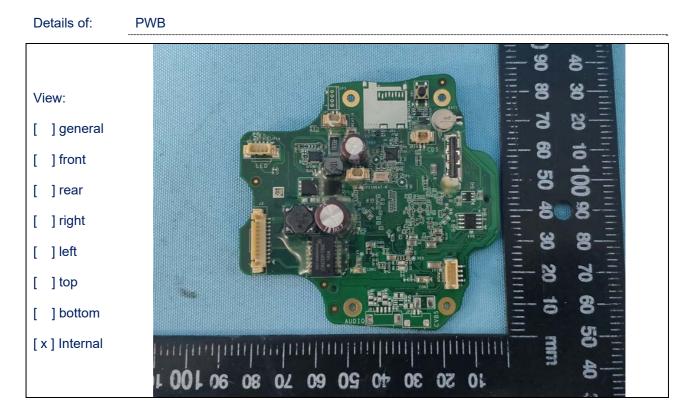




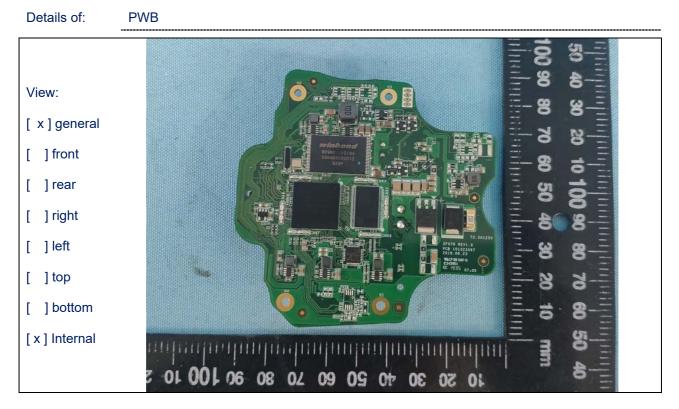
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Details of:









- - - End of Report - - -