



Test Report issued under the responsibility of:



**TEST REPORT
IEC 60950-1
Information technology equipment – Safety –
Part 1: General requirements**

Report Number..... : SHES181200039101-M1
Date of issue : 2019-01-28; Amendment 1: 2019-03-22
Total number of pages 10 pages

Applicant's name..... : Hangzhou Hikvision Digital Technology Co., Ltd.
Address : No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

Test specification:
Standard : IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013
Test procedure..... : CB Scheme
Non-standard test method..... : N/A

Test Report Form No...... : IEC60950_1F
Test Report Form(s) Originator.... : SGS Fimko Ltd
Master TRF : Dated 2014-02

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General disclaimer:

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Test item description	IP Video Intercom Indoor Station
Trade Mark	HIKVISION
Manufacturer	Same as applicant
Model/Type reference	See page 7
Ratings	12 V d.c.; 1,0 A; PoE: 37 V d.c. – 57 V d.c.; 0,35 A; Class III

Testing procedure and testing location:		
<input checked="" type="checkbox"/>	CB Testing Laboratory:	SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing location/ address		588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China
<input type="checkbox"/>	Associated CB Testing Laboratory:	
Testing location/ address		
Tested by (name + signature).....		Kade Shang <i>Kade Shang</i>
Approved by (name + signature)		Bruce Wu <i>Bruce Wu</i>
<input type="checkbox"/>	Testing procedure: TMP/CTF Stage 1:	
Testing location/ address		
Tested by (name + signature).....		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: WMT/CTF Stage 2:	
Testing location/ address		
Tested by (name + signature).....		
Witnessed by (name + signature)		
Approved by (name + signature)		
<input type="checkbox"/>	Testing procedure: SMT/CTF Stage 3 or 4:	
Testing location/ address		
Tested by (name + signature).....		
Witnessed by (name + signature)		
Approved by (name + signature)		
Supervised by (name + signature).....		



<p>List of Attachments (including a total number of pages in each attachment):</p> <p>N/A</p>	
<p>Summary of testing:</p> <p>The sample(s) tested complies with the requirements of IEC 60950-1: 2005 (Second Edition) +Am 1: 2009 + Am 2: 2013 and EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013.</p> <p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>Unless otherwise specified, all tests on model DS-KH8350-WTE1 were considered representative.</p> <p>Tma = 55 °C (declared by manufacturer) K-type thermocouple used for temperature measurement.</p>	
<p>Tests performed (name of test and test clause):</p> <p><input checked="" type="checkbox"/> 1. GENERAL</p> <p><input type="checkbox"/> 2. PROTECTION FROM HAZARDS</p> <p><input type="checkbox"/> 3. WIRING, CONNECTIONS AND SUPPLY</p> <p><input checked="" type="checkbox"/> 4. PHYSICAL REQUIREMENTS</p> <p><input checked="" type="checkbox"/> 5. ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</p> <p><input type="checkbox"/> 6. CONNECTION TO TELECOMMUNICATION NETWORKS</p> <p><input type="checkbox"/> 7. CONNECTION TO CABLE DISTRIBUTION SYSTEMS</p>	<p>Testing location:</p> <p>SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China</p>
<p>Summary of compliance with National Differences:</p> <p>List of countries addressed</p> <p>1. EU Group Differences (EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013)</p> <p>2. EU Special National Conditions, EU A-deviations: none</p> <p>The product fulfils the above requirements. which is evaluated in original report SHES181200039101.</p>	

Copy of marking plate: The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Notional Certification Body that own these marks.

Marking for model DS-KH8350-WTE1

HIKVISION

IP Video Intercom Indoor Station

Model: DS-KH8350-WTE1

I/P: 12V 1A

PoE(37-57V) 0.35 A

SN: A12345678 02/2019



CAN ICES-3 (B)/NMB-3(B)

IC: 20199-KH8350WTE1

FCC ID:2ADTD-KH8350WTE1

Made in China KZXXXXXXXXXXXXXXXXXX

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received,

including interference that may cause undesired operation.

Manufacturer: Hangzhou Hikvision Digital Technology Co.,Ltd.

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



Remark:

- 1) The Height of CE logo shall not be less than 5 mm; Height of WEEE logo shall not be less than 7 mm.
- 2) As declared by the applicant, the importer (and manufacturer, if it is different)'s name, registered trade name or registered trade mark and the postal address will be marked on the products before being place on the market. The contact details shall be in a language easily understood by end-users and market surveillance authorities.
- 3) The marking plates for other models are of the same pattern except for model name.

Test item particulars :	
Equipment mobility:	<input checked="" type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains:	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
Operating condition:	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC)	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: SELV
Mains supply tolerance (%) or absolute mains supply values	N/A
Tested for IT power systems	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	N/A
Class of equipment	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating of protective device as part of the building installation (A)	N/A
Pollution degree (PD)	<input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3
IP protection class	IPX0
Altitude during operation (m)	≤ 2000
Altitude of test laboratory (m)	≤ 100
Mass of equipment (kg)	0,35 kg.
Possible test case verdicts:	
- test case does not apply to the test object	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	2019-03-04
Date (s) of performance of tests	2019-03-04 to 2019-03-14

General remarks:

"(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 / point is used as the decimal separator.

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Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60950-1:

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided

- Yes**
- Not applicable**

When differences exist; they shall be identified in the General product information section.

Name and address of factory (ies) : 1. Hangzhou Hikvision Technology Co., Ltd.
 No. 700, Dongliu Road, Binjiang District, Hangzhou City, Zhejiang, 310052, China
 2. Hangzhou Hikvision Electronics Co., Ltd.
 No. 299, Qiushi Road, Tonglu Economic Development Zone, Tonglu County, Hangzhou, Zhejiang, 310052, China.
 3. Hangzhou Hikvision Digital Technology Co., Ltd.
 No.555 Qianmo Road, Binjiang District, Hangzhou 310052, China

General product information:

Functions	The equipment under test is a class III IP Video Intercom Indoor Station, which contains SELV circuit only and powered by (12V d.c.) LPS power or PoE as specified in user manual.
Material of enclosure	Metal & Plastic & Glass
Model difference	All models are identical except for model No. and silk.
Other features	Indoor use only
Interface	1 x Alarm, 1 x RJ45, 1 x SD card, 1 x RS485, 1 x DC 12V

Model list:

DS-KH8350-WTE1	DS-KH8350-WTE1UHK	DS-KH8350-WTE1CKV	DS-KH8350-WTE1UVS
DS-KH8350-WTE1KVO	DS-KH8350-WTE1HUN	DS-KH8350-TE1	DS-KH8350-TE1UHK
DS-KH8350-TE1CKV	DS-KH8350-TE1UVS	DS-KH8350-TE1KVO	DS-KH8350-TE1HUN

Amendment 1 Report:

The original Test Report Ref. No. SHES181200039101, dated 2019-01-28 was modified on 2019-03-22 to include the following changes and/or additions:

- Change input rating to include: PoE: 37 V d.c. – 57 V d.c.; 0,35 A.

After review, clause 1.6.2, 4.5.2 and 5.3 are considered.

Abbreviations used in the report:

- | | | | |
|--------------------------------------|-------------|----------------------------|--------------|
| - normal conditions | N.C. | - single fault conditions | S.F.C |
| - functional insulation | OP | - basic insulation | BI |
| - double insulation | DI | - supplementary insulation | SI |
| - between parts of opposite polarity | BOP | - reinforced insulation | RI |

Indicate used abbreviations (if any)

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Clause	Requirement + Test	Result - Remark	Verdict
1.6	Power interface		P
1.6.2	Input current	(see appended table 1.6.2)	P
4.5	Thermal requirements		P
4.5.1	General		P
4.5.2	Temperature tests		P
	Normal load condition per Annex L :		—
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	P
5.3	Abnormal operating and fault conditions		P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	P
5.3.7	Simulation of faults	See appended table 5.3.	P
5.3.9	Compliance criteria for abnormal operating and fault conditions	See below.	P
5.3.9.1	During the tests	No fire occurred beyond the equipment, no molten metal emitted and no deformation of enclosure.	P
5.3.9.2	After the tests		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
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1.6.2	TABLE: Electrical data (in normal conditions)						P
U (V)	I (A)	I _{rated} (A)	P (W)	Fuse #	I _{fuse} (A)	Condition/status	
PoE: 37 V d.c.	0,20	0,35	7,40	--	--	Normal operation condition.	
PoE: 57 V d.c.	0,12	0,35	6,84	--	--	Normal operation condition.	
Supplementary information:							

4.5	TABLE: Thermal requirements						P	
	Supply voltage (V)	37 V d.c.		57 V d.c.		—		
	Ambient T _{min} (°C)	55,0		55,0		—		
	Ambient T _{max} (°C)	55,0		55,0		—		
Maximum measured temperature T of part/at.....:		T (°C)				Allowed T _{max} (°C)		
RTC battery		71,3		68,3		Ref.		
PCB near DB1		79,3		73,9		130		
PCB near U3		73,4		70,2		130		
PCB near T1		75,1		72,3		130		
PCB near UW1		68,9		67,7		130		
PCB near UA1		70,0		68,2		130		
PCB near UF3		70,2		66,9		130		
Internal plastic of enclosure		60,8		59,2		Ref.		
External plastic of enclosure		64,4		61,9		95		
Panel		64,5		63,2		80		
Metal enclosure		68,3		66,1		70		
Supplementary information:								
Temperature T of winding:		t ₁ (°C)	R ₁ (Ω)	t ₂ (°C)	R ₂ (Ω)	T (°C)	Allowed T _{max} (°C)	Insulation class
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Supplementary information:								

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Clause	Requirement + Test	Result - Remark	Verdict
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5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)				23,0°C	—
	Power source for EUT: Manufacturer, model/type, output rating				--	—
Component No.	Fault	Supply voltage (V)	Test time	Fuse #	Fuse current (A)	Observation
C127	s-c	57Vdc	10min	--	--	Unit normal operation, No damage, no hazards.
CA23	s-c	57Vdc	10min	--	--	Unit normal operation, No damage, no hazards.

Supplementary information:
s-c=Short circuit; o-l: over load

*******End of report*******