

Test Report

ULR-TC698322000000528F

SUMMARY OF TEST REPORT NO: SC22EPI10251

Discipline-Electronics

(No. of pages in this test report: 55)

DATED: 07-09-2022

Group- AUDIO EQUIPMENT

TEST FORMAT AS PER IS IS 616:2017/ IEC 60065:2014

1. Name of Manufacturer: **M/S HIIH TECHNOLOGIES PRIVATE LIMITED**
2. Product: **Video Camera**
3. Model (s): **HiiH-Tex (Video Camera)**
4. Model differences provided (If applicable): N/A
5. Model differences verified as per MEITY Guidelines for series formulation: N/A
6. Test Result: See below

SL. NO.	TEST REQUIREMENT	CLAUSE	VERDICT
01.	Marking and Instructions	5	P
02.	Hazardous radiations	6	P
03.	Heating under normal operating conditions	7	P
04.	Constructional requirements with regard to the protection against electric shock	8	N/A
05.	Electric shock hazard under normal operating condition	9	N/A
06.	Insulation requirements	10	N/A
07.	Fault conditions	11	P
08.	Mechanical Strength	12	P
09.	Clearances and creepage distances	13	N/A
10.	Components	14	P
11.	Terminals	15	N/A
12.	External flexible cords	16	N/A
13.	Electrical connections and mechanical fixings	17	P
14.	Mechanical strength of picture tubes and protection against the effect of implosion	18	N/A
15.	Stability and mechanical hazards	19	P
16.	Resistance to fire	20	P

Test Report

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Discipline-Electronics

General information:

DATED: 07-09-2022
Group- AUDIO EQUIPMENT

The conformity certificates of critical components are verified to ensure complete testing of apparatus under test and details regarding harmonized IEC standards (where IEC standards are not available) are also provided in the list of critical component.

Conclusion:

- 1) Sample meets all relevant requirements of IS 616:2017/ IEC 60065:2014
- 2) ~~Sample fails to meet the following test requirements.~~

I hereby, undertake that the verdict stated in the test reports for all the tests matches with the test results. The sample meets all relevant requirements IS 616:2017/ IEC 60065:2014 / ~~does not meet the requirements stated above at 2).~~ If any deviation is found, suitable punitive action may taken by BIS.




Digitally
signed by
Deepak
Kumar
(Signature with Stamp)



Test Report

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ULR-TC698322000000528F	Issue Date: 07-09-2022
Discipline-Electronics	Group- AUDIO EQUIPMENT




Manufacturer:	M/S HIIIH TECHNOLOGIES PRIVATE LIMITED	
	NO-B-12004, SOBHA ELITE NAGASANDRA 8TH MIL, TUMUKAR ROAD BANGLORE, BANGALORE, KARNATAKA, BENGALURU (URBAN), KARNATAKA, 560073	
Test item:	Video Camera	
Identification:	HiiiH-Tex (Video Camera)	Serial No.: --
Receipt No.:	JB/BIS/2K22/00000528	Date of receipt: 30-08-2022
Testing laboratory and its address:	ACE TEST LABS PLOT NO.68, HSIIDC, INDUSTRIAL, ESTATE RAI, SONIPAT, HARYANA-131029	
Test specification:	IS 616: 2017 / IEC 60065:2014	
Test Result:	<i>The test item passed / failed the test specification(s).</i>	
Other Aspects:	<i>Nil</i>	
<i>This test report relates to the test sample submitted and list of documents attached.</i>		

Tested by:	Approved by / Authorized Signatory:	Issued by:
 Digitally signed by Junaid Ali	 Digitally signed by Deepak Kumar	 Digitally signed by Kamal Kant
Test Engineer: Junaid Ali	TM: Deepak Kumar	DTM: Kamal Kant
Date: 07-09-2022	Date: 07-09-2022	Date: 07-09-2022



Test Report

TEST REPORT IS 616: 2017 / IEC 60065:2014 Audio, Video and Similar Electronic Apparatus - Safety requirements (Fifth Revision) “Video Camera”		
ULR-TC698322000000528F	Discipline-Electronics	Group- AUDIO EQUIPMENT
Report Reference No.	SC22EPI10251	
Date of issue	07-09-2022	
Total number of pages	55	
Testing Laboratory	ACE TEST LABS	
Address	PLOT NO.68, HSIIDC, INDUSTRIAL, ESTATE RAI, SONIPAT, HARYANA-131029	
Manufacturer's name	M/S HIIIH TECHNOLOGIES PRIVATE LIMITED	
Address	NO-B-12004, SOBHA ELITE NAGASANDRA 8TH MIL, TUMUKAR ROAD BANGLORE, BANGALORE, KARNATAKA, BENGALURU (URBAN) , KARNATAKA, 560073	
Test specification:		
Standard	IS 616: 2017 / IEC 60065:2014	
Test procedure	Compliance Report	
Non-standard test method	N/A	
Test Report Form No.	BIS_AV/VC_IS 616_V1.0	
Test Report Form(s) Originator	Bureau of Indian Standards	
Master TRF	31/12/2020	
Test item description	Video Camera	
Trade Mark	See copy of marking plate.	
Model/Type reference	HiiiH-Tex (Video Camera)	
Ratings	See copy of marking plate.	
Other Documents submitted	Please refer to Table – List of Attachments at Page No. 06	

Tested by:	Approved by / Authorized Signatory:	Issued by:
 Digitally signed by Junaid Ali	 Digitally signed by Deepak Kumar	 Digitally signed by Kamal Kant
Test Engineer: Junaid Ali	TM: Deepak Kumar	DTM: Kamal Kant
Date: 07-09-2022	Date: 07-09-2022	Date: 07-09-2022



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PLOT NO. 68, HSIIDC, INDUSTRIAL ESTATE, RAI, SONIPAT, HARYANA-131029

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EL 2017	Communicating connection	Apparatus to be connected to the TELECOMMUNICATION NETWORKS (Annex B)	09	00	N/A	42
EL 2018	Insulation Properties	Measuring network for TOUCH CURRENTS (Annex D)	02	00	N/A	43
EL 2019	Electrical Safety	Measurement of Clearances and Creepage Distances(Annex E)	01	00	N/A	44
EL 2020	Electrical Safety	Table of electrochemical potentials (Annex F)	01	00	N/A	45
EL 2021	Electrical Safety	Flammability test methods (Annex G)	08	00	N/A	46
EL 2022	Insulation Properties	Insulated Winding Wires For Use Without Interleaved Insulation (Annex H)	10	00	N/A	47
EL 2023	Electrical safety	Alternative Method For Determining Minimum Clearances(Annex J)	10	00	N/A	48
EL 2024	Electrical safety	Impulse Test Generators (Annex K)	02	00	N/A	49
EL 2025	Photographic Purposes	Electronic Flash Apparatus For Photographic Purposes (Annex L)	10	00	N/A	50

Certificate: It is certified that the above tests were performed and found to be **passing/failing** in the requirement tested.

.....
(Approving Authority)

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Table EL 2009-(01 to 83)

14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹ .
PCB	YAMASHITA MATERIALS CORP	P40	V-0,130°C	UL 796, UL94 (Flammability test equivalent to IEC 60695-11-10)	UL E41152
Enclosure (Plastic)	HUIZHOU WOTE ADVANCED MATERIALS CO LTD	2000	95°C,1.14mm thickness	UL94, UL746 (Flammability test equivalent to IEC 60695-11-10)	UL E310240
Rechargeable Li-Polymer Battery	SHENZHEN HUIXINLI ELECTRONIC TECHNOLOGY CO., LTD	501051	3.8V,280mAh	IS 16046 (Part 2) : 2018 / IEC 62133-2 : 2017	BIS. R-41177482

Supplementary information:
¹ Evidences provided by the manufacturer for the listed components are verified by us and the evidences are conforming to the requirements of the relevant standard.

<p>Tested by:</p> <p>Digitally signed by Junaid Ali</p> <p>Test Engineer: Junaid Ali</p>	<p>Approved by/ Authorized Signatory:</p> <p>Digitally signed by Deepak Kumar</p> <p>TM: Deepak Kumar</p>
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Test Report

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Test item particulars.....: Video Camera		
Sample received condition.....: <input checked="" type="checkbox"/> Good <input type="checkbox"/> Others		
Classification of installation and use.....: Class III		
Supply Connection.....: Not directly connected to mains		
Laboratory conditions.....: As below		
Ambient Temperature.....: (25±3)°C		
Ambient Humidity.....: <70 %RH		
Testing:		
Date of receipt of test item.....: 30-08-2022		
Date (s) of performance of tests.....: 30-08-2022 To 07-09-2022		
Table – List of Attachments		
Attachment No.	Attachment Description	No. of pages in Attachment
Attachment – 1	Photo Documentation	03 pages (page no. 53-55)
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)
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 Issuing testing laboratory.		
General product information:		
The equipment under Test (EUT) is a Video Camera Model " HiiiH-Tex (Video Camera) " for use in general home environment and for indoor use only. This Pen Shaped camera is used to record videos from close range. This Video Camera is classified as Class III equipment which is powered by DC Supply Source through USB Cable. It has certified Rechargeable Li-Polymer Battery of rating: 3.8V, 280mAh.		
Ratings:		
Input: 5V 500mA		
Manufacturer has given the declaration that the power source provided to the EUT through any DC source of 5VDC/500mA like Laptop, adapter, power bank etc with the help of USB charging Cable. However, testing has been performed by giving 5VDC through DC source available in the lab.		
The apparatus was submitted and evaluated for recommended ambient temperature(Tma) of 25°C		
Similarities: N/A		
Differences between the models: N/A		
Model No. tested with-in the family series: N/A		

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3	General requirements	Verdict
	Safety class of the apparatus.....:	Class III apparatus P
3.3	Constructions and components not specifically covered	No such construction N/A
	Equipment involving technologies, components and materials or methods of construction not specifically covered in this standard, comply with the safety requirement of this standard	As above N/A
3.4	Components and subassemblies that comply with IEC 62368-1	No such Components and subassemblies N/A

4	General test conditions	Verdict
4.1.4	Ventilation instructions require the use of the test box	No Ventilation N/A
4.2.2	Measurement of rated current consumption or rated power consumption of television sets as specified.	Measured of rated power consumption of equipment (See appended table 7.1) P
4.2.5 (e)	Equipment containing multi-channel amplifiers, where each channel can be operated independently using rated load impedance at output power level that correspondsto1/8thof non-clipped output power and the channel that cannot be operated independently shall be operated using rated load impedance at output power level in such a way to deliver one-eighth of the non-clipped output power to the rated load impedance.	No such equipment used N/A

<p>Tested by:</p>  <p>Digitally signed by Junaid Ali</p> <p>Test Engineer: Junaid Ali</p>	<p>Approved by/ Authorized Signatory:</p>  <p>Digitally signed by Deepak Kumar</p> <p>TM: Deepak Kumar</p>
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Tests relating to Marking Requirements

EL 2000-V1.0

Clause No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
5	Marking and instructions*	EL 2000-00	Complies	P
5.1	General requirements	EL 2000-01	See below	P
	Comprehensible and easily discernible*	EL 2000-02	Marking label is comprehensible and easily discernible	P
	Permanent durability against water and petroleum spirit	EL 2000-03	Marking is found legible after the test	P
5.2	Identification and supply ratings*		See below	P
	a) Identification, maker *	EL 2000-04	See page no. 2	P
	b) Model number or type reference*	EL 2000-05	See page no. 2	P
	c) Class II symbol or Class II with functional earth symbol if applicable *	EL 2000-06	Class III equipment	N/A
	d) Nature of supply*	EL 2000-07	---	P
	e) Rated supply voltage*	EL 2000-08	See copy of marking plate	P
	f) Mains frequency if safety dependant *	EL 2000-09	Class III equipment	N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use, on apparatus or in instruction manual: Measured current or power consumption: Deviation % (max 10%):*	EL 2000-10	Rated Current is 500mA (See appended table 7.1) Less than 10% Deviation	P
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply: Measured current or power consumption for Television set: Deviation % (max 10%): *	EL 2000-11	No such type of equipment	N/A
	appliance coupler for Class I is used for Class II equipment with functional earth connection, the requirements of Clause 15 and Clause 16 related to Class I construction shall be applied up to the connecting point of the protective (earthing) conductor to the functional earth.*	EL 2000-12	No such construction	N/A
	Graphical symbols placed on the apparatus, whether required by this standard or not, shall be in accordance with IEC 60417 or ISO 3864-2 or ISO 7000, if available. In the absence of suitable symbols, the manufacturer may design specific graphical symbols.*	EL 2000-13	Graphical symbols Not used	N/A

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Tests relating to Marking Requirements

EL 2000-V1.0

Clause No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	Care shall be taken so that additional markings and instructions not required by this standard do not contradict the markings and instructions required by this standard. Symbols placed on the equipment shall be explained in the user manual.*	EL 2000-14	Other markings and symbols do not give rise to misunderstandings	P
5.3	Terminals*		Class III apparatus	N/A
	a) Earth terminal*	EL 2000-15		N/A
	b) Hazardous live terminals*	EL 2000-16		N/A
	c) Markings on supply output terminals*	EL 2000-17	No such output terminals	N/A
5.4	Caution marking*		See below	P
	a) Use of triangle with exclamation mark*	EL 2000-18	Warning details are covered in the user manual of the product.	P
	b) Marking on loudspeaker grille, IEC 60417-5036*	EL 2000-19	No such grille used	N/A
	c) User-replaceable coin / button cell battery marking *	EL 2000-20	No coin/button cell battery used	N/A
5.5	Instructions*	EL 2000-21	See below	P
5.5.1	Safety relevant information*	EL 2000-22	Suitable instruction is provided for safety purpose	P
5.5.2	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc. *	EL 2000-23	No such type of equipment	N/A
	b) Hazardous live terminals, instructions for wiring *	EL 2000-24	No hazardous live terminals	N/A
	c) Instructions for replacing lithium battery *	EL 2000-25	No replaceable battery	P
	d) Class I earth connection warning *	EL 2000-26	Class III apparatus	N/A
	e) Instructions for multimedia system connection *	EL 2000-27	Instructions provided in user manual	P
	f) Special stability warning for attachment of the apparatus to the floor/wall*	EL 2000-28	No such type of equipment	N/A
	g) Warning: battery exposure to heat *	EL 2000-29	Instruction provided in safety manual	P
	h) Warning: protective film on CRT face *	EL 2000-30	No CRT	N/A
	i) Warning: Non-floor standing TV >7kg*	EL 2000-31		N/A

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Tests relating to Marking Requirements

EL 2000-V1.0

Clause No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
	j) Warning: User replaceable coin / button cell battery*	EL 2000-32	No coin/button cell battery used	N/A
5.5.3	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings *	EL 2000-33	Class III apparatus	N/A
	c) Instructions for permanently connected equipment*	EL 2000-34	Not permanently connected Equipment	N/A
	Marking, signal lamps or similar for completely disconnection from the mains *	EL 2000-35	No such equipment	N/A

*Total number of Requirements to be observed / inspected =34
 Total No. of Applicable Requirement =12
 No of Requirements for which the sample passed =12

Total number of tests to be conducted =02
 Total No. of Applicable Tests =02
 No. of tests for which the sample passed =02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
 (Approving Authority)

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Tests relating to Radiation Requirements

EL 2001-V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
6	Hazardous radiation*	EL 2001-00	See below	P
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)		No hazardous radiation generated by the equipment	N/A
	Ionizing radiation under fault condition	EL 2001-01	See above CL. No. 6.1	N/A
6.2	Laser radiation, emission limits to IEC 60825-1: 2007	EL 2001-02	No laser present in the equipment	N/A
	Emission limits under normal operating conditions as per IEC 60825-1:2007	EL 2001-03	See above CL. No. 6.2	N/A
	Emission limits under fault conditions as per IEC 60825-1	EL 2001-04	See above CL. No. 6.2	N/A
6.3	Light emitting diodes (LEDs) according to IEC 62471	EL 2001-05	Low power LED used for indication purpose only	P

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement =01
 No of Requirements for which the sample passed =01

Total number of tests to be conducted = 05
 Total No. of Applicable Tests =01
 No. of tests for which the sample passed =01

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

.....
 (Approving Authority)

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Tests relating to Heating Requirements

EL 2002-V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
7	Heating under normal operating conditions*	EL 2002-00	See below	P
7.1	General		(See appended table 7.1)	P
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	EL 2002-01	(See appended table 7.1)	P
7.1.2	Temperature rise of accessible parts	EL 2002-02	(See appended table 7.1)	P
7.1.3	Temperature rise of parts providing electrical insulation	EL 2002-03	(See appended table 7.1)	P
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	EL 2002-04	(See appended table 7.1)	P
7.1.5	Temperature rise of windings	EL 2002-05	No winding used in equipment	N/A
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4	EL 2002-06	All parts subjected to limits of 7.1.1 to 7.1.4	N/A
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0.2 A, shall be at least 150°C	EL 2002-07	Class III equipment, not directly connected to mains	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 01
 No of Requirements for which the sample passed = 01

 Total number of tests to be conducted = 07
 Total No. of Applicable Tests = 04
 No. of tests for which the sample passed = 04

Certificate: It is certified that the above tests were performed and found to be passing/ ~~failing~~ in the requirement tested.

.....
 (Approving Authority)

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Tests relating to Electrical Safety

EL 2003- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
8	Constructional requirements with regard to the protection against electric shock*	EL 2003-00	Class III equipment, Not directly connected to mains, Powered by SELV only	P
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare *	EL 2003-01	See above Cl. No. 8	N/A
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	EL 2003-02	See above Cl. No. 8	N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material	EL 2003-03	See above Cl. No. 8	N/A
8.4	No risk of electric shock from accessible parts or from parts rendered accessible following the removal of a cover which can be removed by hand	EL 2003-04	See above Cl. No. 8	N/A
8.5	Class I apparatus*		See above Cl. No. 8	N/A
	Basic insulation between hazardous live parts and earthed accessible parts *	EL 2003-05	See above Cl. No. 8	N/A
	Resistors bridging basic insulation shall complying with 14.1 a) *	EL 2003-06	See above Cl. No. 8	N/A
	Capacitors bridging basic insulation shall complying with 14.2.1 a) *	EL 2003-07	See above Cl. No. 8	N/A
	Protective earthing terminal *	EL 2003-08	See above Cl. No. 8	N/A
8.6	Class II apparatus		See above Cl. No. 8	N/A
	a) Basic and supplementary insulation between hazardous live parts and accessible parts *	EL 2003-09	See above Cl. No. 8	N/A
	b) Reinforced insulation between hazardous live parts and accessible parts *	EL 2003-10	See above Cl. No. 8	N/A
8.7	Components bridging insulation		See above Cl. No. 8	N/A
	Basic insulation bridged by components complying with 14.4.5.3	EL 2003-11	See above Cl. No. 8	N/A
	Components bridging basic, supplementary, double or reinforced insulation complying with 14.2 a) or 14.4	EL 2003-12	See above Cl. No. 8	N/A
	Basic and supplementary insulation each being bridged by a capacitor or RC-unit complying with 14.3.2 a)	EL 2003-13	See above Cl. No. 8	N/A
	Double or reinforced insulation being bridged with 2 capacitors or RC-units in series complying with 14.3.2 a)	EL 2003-14	See above Cl. No. 8	N/A

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	Double or reinforced insulation being bridged with a single capacitor or RC-unit complying with 14.3.2 b)	EL 2003-15	See above Cl. No. 8	N/A
8.8	Insulation thickness and thin sheet materials		See above Cl. No. 8	N/A
	Basic or supplementary insulation > 0,4 mm (mm)*	EL 2003-16	See above Cl. No. 8	N/A
	Reinforced insulation > 0,4 mm (mm) *	EL 2003-17	See above Cl. No. 8	N/A
	Thin sheet material used inside the equipment	EL 2003-18	See above Cl. No. 8	N/A
	Basic or supplementary insulation, at least two layers, each meeting 10.4	EL 2003-19	See above Cl. No. 8	N/A
	Basic or supplementary insulation, three layers any two of which meet 10.4	EL 2003-20	See above Cl. No. 8	N/A
	Reinforced insulation, two layers each of which meet 10.4	EL 2003-21	See above Cl. No. 8	N/A
8.9	Adequate insulation between internal hazardous live conductors and accessible parts, or between internal hazardous live parts and conductors connected to accessible parts	EL 2003-22	See above Cl. No. 8	N/A
8.10	Double insulation between accessible parts and conductors connected to the mains	EL 2003-23	See above Cl. No. 8	N/A
	Double insulation between conductors connected to accessible parts and parts connected to the mains	EL 2003-24	See above Cl. No. 8	N/A
8.11	Detaching of wires		See above Cl. No. 8	N/A
	No undue reduction of creepage or clearance distances if wires become detached	EL 2003-25	See above Cl. No. 8	N/A
	Vibration test carried out	EL 2003-26	See above Cl. No. 8	N/A
8.12	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)	EL 2003-27	See above Cl. No. 8	N/A
8.13	Adequate fastening of covers (push/pull test 50 N for 10 s)	EL 2003-28	See above Cl. No. 8	N/A
8.14	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges	EL 2003-29	See above Cl. No. 8	N/A
8.15	Only special supply equipment can be used*	EL 2003-30	See above Cl. No. 8	N/A
8.16	Insulated winding wire without additional interleaved insulation	EL 2003-31	See above Cl. No. 8	N/A
8.17	Endurance test as required by 8.16	EL 2003-32	See above Cl. No. 8	N/A
8.18	Disconnection from the mains		See above Cl. No. 8	N/A

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	Disconnect device used in apparatus	EL 2003-33	See above Cl. No. 8	N/A
	All-pole switch or circuit breaker with >3mm contact separation.	EL 2003-34	See above Cl. No. 8	N/A
	Mains switch ON indication *	EL 2003-35	See above Cl. No. 8	N/A
8.19	Switch not fitted in the mains cord *	EL 2003-36	See above Cl. No. 8	N/A
8.20	Bridging components comply with clause 14	EL 2003-37	See above Cl. No. 8	N/A
8.21	Non-separable thin sheet material	EL 2003-38	See above Cl. No. 8	N/A

*Total number of Requirements to be observed / inspected = 13
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 26
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical Safety

EL 2004-V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
9	Electric shock hazard under normal operating conditions*	EL 2004-00	Class III equipment, Not directly connected to mains, Powered by SELV only	N/A
9.1	Testing on the outside	EL 2004-01	See above Cl. No. 9	N/A
9.1.1	Requirements		See above Cl. No. 9	N/A
	Accessible parts shall not be hazardous live	EL 2004-02	See above Cl. No. 9	N/A
	Inaccessible terminals are not accessible or comply with relevant requirements	EL 2004-03	See above Cl. No. 9	N/A
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation	EL 2004-04	See above Cl. No. 9	N/A
9.1.1.2	Determination of hazardous live parts		See above Cl. No. 9	N/A
	a) Open circuit voltages	EL 2004-05	See above Cl. No. 9	N/A
	b) Touch current measured from terminal devices using the network in annex D	EL 2004-06	See above Cl. No. 9	N/A
	c) The charge exceeds 45 μ C	EL 2004-07	See above Cl. No. 9	N/A
	d) Energy of discharge not exceeding 350 mJ	EL 2004-08	See above Cl. No. 9	N/A
9.1.1.3	Test with test finger and test probe	EL 2004-09	See above Cl. No. 9	N/A
9.1.2	No hazardous live shafts of knobs, handles or levers	EL 2004-10	See above Cl. No. 9	N/A
9.1.3	Ventilation holes and other holes tested by means of 4 mm x 100 mm test pin	EL 2004-11	See above Cl. No. 9	N/A
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032	EL 2004-12	See above Cl. No. 9	N/A
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032	EL 2004-13	See above Cl. No. 9	N/A
9.1.5	Pre-set controls tested with 2.5 mm x 100 mm test pin (10 N); test probe C of IEC 61032	EL 2004-14	See above Cl. No. 9	N/A
9.1.6	Withdrawal of the mains plug:		See above Cl. No. 9	N/A
	No shock hazard due to stored charge after 2 s :	EL 2004-15	See above Cl. No. 9	N/A
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited	EL 2004-16	See above Cl. No. 9	N/A

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	If C is not greater than 0,1 μ F no test needed	EL 2004-17	See above Cl. No. 9	N/A
9.1.7	Resistance to external forces		See above Cl. No. 9	N/A
	a) Test probe 11 of IEC 61032 for 10 s (50 N)	EL 2004-18	See above Cl. No. 9	N/A
	b) Test hook of fig. 4 for 10 s (20 N)	EL 2004-19	See above Cl. No. 9	N/A
	c) 30 mm diameter test tool for 5 s (100 or 250 N)	EL 2004-20	See above Cl. No. 9	N/A
9.2	No hazard after removing a cover by hand	EL 2004-21	See above Cl. No. 9	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 21
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/~~failing~~ in the requirement tested.

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EL 2005- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
10	Insulation requirements*	EL 2005-00	Class III equipment, Not directly connected to mains, Powered by SELV only	N/A
10.2	Surge Test		See above Cl. No. 10	N/A
	a) Insulation between desired terminals is subjected to 50 discharges at a maximum rate of 12/min, from 1nF capacitor charged to 10 kV in a test circuit as per Fig.5a.	EL 2005-01	See above Cl. No. 10	N/A
	b) After surge test, the tested insulation shall comply with clause 10.3, Table 5 : i) Insulation resistance : 2 MΩ, Min. (for basic insulation) , ii) Insulation resistance :4 MΩ, Min. (for reinforced insulation) , iii) Dielectric strength test	EL 2005-02	See above Cl. No. 10	N/A
10.3	Humidity treatment 48 h or 120 h	EL 2005-03	See above Cl. No. 10	N/A
10.4	Insulation resistance and dielectric strength		See above Cl. No. 10	N/A
10.4.1	Insulation of the insulating materials	EL 2005-04	See above Cl. No. 10	N/A
10.4.2	Between parts of different polarity directly connected to the mains	EL 2005-05	See above Cl. No. 10	N/A
	Between parts separated by BASIC or SUPPLEMENTARY insulation	EL 2005-06	See above Cl. No. 10	N/A
	Between parts separated by REINFORCED insulation	EL 2005-07	See above Cl. No. 10	N/A

*Total number of Requirements to be observed / inspected =01
 Total No. of Applicable Requirement =00
 No of Requirements for which the sample passed =N/A

Total number of tests to be conducted =07
 Total No. of Applicable Tests =00
 No. of tests for which the sample passed =N/A

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Tests relating to Electrical Safety

EL 2006- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
11	Fault conditions*	EL 2006-00	See below	P
11.1	No shock hazard under fault condition		Class III equipment, Supply Voltage is 5Vdc only	N/A
	a) - The permissible values of Open circuit voltage [as per Cl.9.1.1.1(a)] for other than audio signals, are increased to 70 V(peak) a.c. and 120 V d.c.	EL 2006-01	See above Cl. No. 11.1	N/A
	b) - The permissible values of Touch Current [Cl.9.1.1.1(b)] are increased to $U_1=70V$ (peak) and $U_2=1.4V$ (peak) for a.c. and to $U_1=4$ V for d.c.	EL 2006-02	See above Cl. No. 11.1	N/A
11.2	Heating	EL 2006-03	Complies	P
11.2.1	Requirements		See below	P
	No danger of fire to the surroundings	EL 2006-04	No danger of fire to the surrounding of the apparatus	P
	Safety not impaired by abnormal heat	EL 2006-05	No impaired by abnormal heat developed in the apparatus	P
	Flames extinguish within 10 seconds	EL 2006-06	No flame observed	P
	No hazard from softening solder	EL 2006-07	No softening at solder point.	P
	Soldered terminations not used as protective mechanism	EL 2006-08	No such termination used as protective mechanism	P
11.2.2	Measurement of temperature rises	EL 2006-09	(See appended table 11)	P
11.2.3	Temperature rise of accessible parts	EL 2006-10	(See appended table 11)	P
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	EL 2006-11	(See appended table 11)	P
11.2.5	Temperature rise of parts acting as a support or mechanical barrier	EL 2006-12	(See appended table 11)	P
11.2.6	Temperature rise of windings	EL 2006-13	No windings used in equipment	N/A
11.2.7	Printed boards		See below	P
	Temperature rise does not exceed the limits of table 3 or exceed the limits of table 3 by max. 100 K for max. 5 min	EL 2006-14	No temperature exceeded (see appended table 11)	P
	a) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ²	EL 2006-15		N/A
	b) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm ² for a maximum of 5 min	EL 2006-16		N/A

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	Meets all the special conditions if conductors on printed circuit boards are interrupted	EL 2006-17		N/A
	Class I protective earthing maintained	EL 2006-18	Class III equipment	N/A
11.2.8	Temperature rise of parts not subject to the limits of 11.2.2 to 11.2.7 shall not exceed the limits in table 3, item e), "Fault conditions".	EL 2006-19	All parts subjected to limits of 11.2.2 to 11.2.7	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 01
 No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 19
 Total No. of Applicable Tests = 10
 No. of tests for which the sample passed = 10

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Mechanical Properties

EL 2007- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
12	Mechanical strength*	EL 2007-00	See below	P
12.1.1	The apparatus have adequate mechanical strength		Equipment has adequate mechanical strength	P
12.1.2	Bump test where mass >7 kg	EL 2007-01	Mass of the equipment is <7 Kg	N/A
12.1.3	Vibration test	EL 2007-02	Equipment having plastic enclosure	N/A
12.1.4	Impact test	EL 2007-03	Class III apparatus	N/A
	Impact hammer test	EL 2007-04	See above Cl. No. 12.1.4	N/A
	Steel ball test	EL 2007-05	See above Cl. No. 12.1.4	N/A
12.1.5	Drop test for portable appliance where mass ≤7 kg	EL 2007-06	Equipment dropped three times on horizontal surface at a distance of 1m Result: No damage no hazard	P
12.1.6	Thermoplastic enclosures stress relief test	EL 2007-07	Stress relief test 70°C for 7 hours. No shrinkage or distortion occurred	P
12.2	Fixing of knobs, push buttons, keys and levers	EL 2007-08	No such parts present in the equipment	N/A
12.3	Remote control hazardous live parts	EL 2007-09	No remote controls used for this equipment	N/A
12.4	Drawers (pull test 50N,10s)	EL 2007-10	No drawer used in the equipment	N/A
12.5	Antenna coaxial sockets and providing isolation	EL 2007-11	No antenna socket which isolate hazardous live part from accessible parts	N/A
	a) - Endurance test,	EL 2007-12	See above Cl. No. 12.5	N/A
	b) - Impact test,	EL 2007-13	See above Cl. No. 12.5	N/A
	c) - Torque test	EL 2007-14	See above Cl. No. 12.5	N/A
12.6	Telescoping or rod antennas	EL 2007-15	No telescoping or rod antennas	N/A
12.6.1	6,0mm diameter end	EL 2007-16	See above Cl. No. 12.6	N/A
	Prevented from falling into the apparatus	EL 2007-17	See above Cl. No. 12.6	N/A
12.6.2	Physical securement, removal prevented	EL 2007-18	See above Cl. No. 12.6	N/A
12.7	Apparatus containing coin / button cell batteries	EL 2007-19	No such type of battery used	N/A
12.7.1	Coin/button cell batteries with a diameter of 32 mm or less.	EL 2007-20	See above Cl. No. 12.7	N/A
12.7.2	Reduced possibility for children to remove battery	EL 2007-21	See above Cl. No. 12.7	N/A

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12.7.3	Tests		See above Cl. No. 12.7	N/A
12.7.3.2	Stress relief test	EL 2007-22	See above Cl. No. 12.7	N/A
12.7.3.3	Battery replacement test	EL 2007-23	See above Cl. No. 12.7	N/A
12.7.3.4	Drop test	EL 2007-24	See above Cl. No. 12.7	N/A
12.7.3.5	Impact test	EL 2007-25	See above Cl. No. 12.7	N/A
12.7.3.6	Crush test	EL 2007-26	See above Cl. No. 12.7	N/A
12.7.4	The battery compartment door/cover shall remain functional	EL 2007-27	See above Cl. No. 12.7	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement =01
 No of Requirements for which the sample passed =01

 Total number of tests to be conducted = 27
 Total No. of Applicable Tests =02
 No. of tests for which the sample passed =02

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Mechanical Properties

EL 2008- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
13	Clearances and creepage distances*	EL 2008-00	Class III equipment, Not directly connected to mains	N/A
13.1	General		See above Cl. No. 13	N/A
13.2	Determination of Working voltage	EL 2008-01	See above Cl. No. 13	N/A
13.3	Clearances		See above Cl. No. 13	N/A
13.3.1	Comply with 13.3 or Annex J		See above Cl. No. 13	N/A
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9:	EL 2008-02	See above Cl. No. 13	N/A
13.3.3	Circuits not conductively connected to the mains comply with table 10	EL 2008-03	See above Cl. No. 13	N/A
13.3.4	Measurement of transient voltages	EL 2008-04	See above Cl. No. 13	N/A
13.4	a) Creepage distances shall be not less than the appropriate minimum values specified in Table 11, taking into account the values of operating voltage, the pollution degree and the material group.	EL 2008-05	See above Cl. No. 13	N/A
	When determining the operating voltage for a TNV circuit connected to a telecommunication network whose characteristics are not known, the normal operating voltages shall be assumed to be as : 60 V dc for TNV-1 circuits, 120 V dc for TNV-2 & TNV-3 circuits	EL 2008-06	See above Cl. No. 13	N/A
	c) - Classification of Material groups : Material group I – $600 \leq CTI$ Material group II - $400 \leq CTI < 600$ Material group IIIa - $175 \leq CTI < 400$ Material group IIIb - $100 \leq CTI < 175$	EL 2008-07	See above Cl. No. 13	N/A
13.5.1	Clearances and creepage distances between conductors on printed circuit boards, one of which may be conductively connected to the mains, as in fig. 10	EL 2008-08	See above Cl. No. 13	N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	EL 2008-09	See above Cl. No. 13	N/A
13.6	a) - Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	EL 2008-10	See above Cl. No. 13	N/A

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	b) - Conductive parts along reliably cemented joints comply with 8.8	EL 2008-11	See above Cl. No. 13	N/A
	c) - Temperature cycle test (10 times):	EL 2008-12	See above Cl. No. 13	N/A
	d) - Dielectric strength test as per Cl.10.3	EL 2008-13	See above Cl. No. 13	N/A
13.7	a) - Enclosed, enveloped or hermetically sealed parts not conductively connected to the mains, clearances and creepage distances as in table 12 i) - Temperature cycle test (10 times), ii) - Dielectric strength test as per Cl.10.3	EL 2008-14	See above Cl. No. 13	N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8	EL 2008-15	See above Cl. No. 13	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement =00
 No of Requirements for which the sample passed =N/A

Total number of tests to be conducted = 15
 Total No. of Applicable Tests =00
 No. of tests for which the sample passed =N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Components

EL 2009- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
14.	Components*	EL 2009-00	See below	P
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2.5	EL 2009-01	Safety certified material used (See table 14)	P
14.2	Resistors		No such component used in equipment	N/A
	Resistors separately approved	EL 2009-02	See above Cl. No. 14.2	N/A
	a) Resistors between hazardous live parts and accessible metal parts	EL 2009-03	See above Cl. No. 14.2	N/A
	b) Resistors, other than between hazardous live parts and accessible parts	EL 2009-04	See above Cl. No. 14.2	N/A
14.3	Capacitors and RC units	EL 2009-05	No such component used in equipment	N/A
	Capacitors separately approved :	EL 2009-06	See above Cl. No. 14.3	N/A
14.3.1	Damp heat test duration 21 days	EL 2009-07	See above Cl. No. 14.3	N/A
14.3.2	Y capacitors tested to IEC 60384-14:2005:	EL 2009-08	See above Cl. No. 14.3	N/A
14.3.3	X capacitors tested to IEC 60384-14:2005:	EL 2009-09	See above Cl. No. 14.3	N/A
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2:	EL 2009-10	See above Cl. No. 14.3	N/A
14.3.6	Capacitors with volume exceeding 1750 mm ³ , where short-circuit current exceeds 0,2 A: compliance with IEC 60384-1, 4.38 category B or better :	EL 2009-11	See above Cl. No. 14.3	N/A
	Capacitors with volume exceeding 1750 mm ³ , mounted closer to a potential ignition source than table 13 permits: compliance with IEC 60384-1, 4.38 category B or better :	EL 2009-12	See above Cl. No. 14.3	N/A
14.4	Inductors and windings	EL 2009-13	No such component used in equipment	N/A
14.4.1	Comply with IEC 61558-1, IEC 61558-2	EL 2009-14	See above Cl. No. 14.4	N/A
	Addition to above insulating material complies with 20.2.5	EL 2009-15	See above Cl. No. 14.4	N/A
14.4.2	Transformers and inductors marked with manufacturer's name and type:	EL 2009-16	No such component used in equipment	N/A
14.4.3	General		See above Cl. No. 14.4.2	N/A
	Insulation material complies with clause 20.2.5	EL 2009-17	See above Cl. No. 14.4.2	N/A

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14.4.4	Constructional requirements	EL 2009-18	Class III equipment, not directly connected to mains	N/A
14.4.4.1	Clearances and creepage distances comply with clause 13	EL 2009-19	See above Cl. No. 14.4.4	N/A
14.4.4.2	Transformers meet the constructional requirements	EL 2009-20	See above Cl. No. 14.4.4	N/A
14.4.5	Separation between windings	EL 2009-21	See above Cl. No. 14.4.4	N/A
14.4.5.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation):	EL 2009-22	See above Cl. No. 14.4.4	N/A
	Coil formers and partition walls > 0,4 mm	EL 2009-23	See above Cl. No. 14.4.4	N/A
14.4.5.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions are met	EL 2009-24	See above Cl. No. 14.4.4	N/A
14.4.5.3	Separating transformers with at least basic insulation	EL 2009-25	See above Cl. No. 14.4.4	N/A
14.4.6	Insulation between hazardous live parts and accessible parts	EL 2009-26	See above Cl. No. 14.4.4	N/A
14.4.6.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)	EL 2009-27	See above Cl. No. 14.4.4	N/A
	Coil formers and partition walls > 0,4 mm	EL 2009-28	See above Cl. No. 14.4.4	N/A
14.4.6.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal	EL 2009-29	See above Cl. No. 14.4.4	N/A
	Winding wires connected to protective earth have adequate current-carrying capacity	EL 2009-30	See above Cl. No. 14.4.4	N/A
14.5	High voltage components and assemblies (U > 4kV peak)	EL 2009-31	No high voltage components and assemblies	N/A
14.5.1	Component meets category V-1 of IEC 60695-11-10	EL 2009-32	No such components used	N/A
14.5.2	High voltage transformers and multipliers	EL 2009-33	See above Cl. No. 14.5.1	N/A
14.5.3	High voltage assemblies and other parts	EL 2009-34	See above Cl. No. 14.5.1	N/A
14.6	Protective devices	EL 2009-35	Class III equipment, not directly connected to mains	N/A
14.6.1	Protective devices used within their ratings	EL 2009-36	See above Cl. No. 14.6	N/A

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	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened	EL 2009-37	See above Cl. No. 14.6	N/A
14.6.2	Thermal Releases	EL 2009-38	No such components used	N/A
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4	EL 2009-39	See above Cl. No. 14.6.2	N/A
14.6.2.2	a) Thermal cut-outs separately approved	EL 2009-40	See above Cl. No. 14.6.2	N/A
	b) Thermal cut-outs tested as part of the submission	EL 2009-41	See above Cl. No. 14.6.2	N/A
14.6.2.3	a) Thermal links separately approved	EL 2009-42	See above Cl. No. 14.6.2	N/A
	b) Thermal links tested as part of the submission	EL 2009-43	See above Cl. No. 14.6.2	N/A
14.6.2.4	Thermal devices re-settable by soldering	EL 2009-44	See above Cl. No. 14.6.2	N/A
14.6.3	Fuse-links and fuse holders*	EL 2009-45	No fuse used in equipment	N/A
14.6.3.1	Fuse-links in the mains circuit according to IEC 60127	EL 2009-46	See above Cl. No. 14.6.3	N/A
14.6.3.2	Correct marking of fuse-links adjacent to holder :	EL 2009-47	See above Cl. No. 14.6.3	N/A
14.6.3.3	Not possible to connect fuses in parallel	EL 2009-48	See above Cl. No. 14.6.3	N/A
14.6.3.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool :	EL 2009-49	See above Cl. No. 14.6.3	N/A
14.6.4	PTC thermistors comply with IEC 60730-1:2010	EL 2009-50	No such components used	N/A
	PTC devices (>15 W) category V-1 or better	EL 2009-51	See above Cl. No. 14.6.4	N/A
14.6.5	Circuit protectors have adequate breaking capacity and their position is correctly marked	EL 2009-52	Class III equipment, not directly connected to mains	N/A
14.7	Switches*	EL 2009-53	No such switch used	N/A
14.7.1	Separate testing to IEC 61058-1 including:	EL 2009-54	See above Cl. No. 14.7	N/A
a)	- 10 000 operations - Normal pollution suitability - For CRT TV's, make and break speed independent of speed of actuation - V-0 or compliance with G.1.1			
14.7.1	Tested in the apparatus		See above Cl. No. 14.7	N/A
b)				

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	Switch controlling > 0.2A with open contact voltage > 35 V (peak) / 24 V dc complying with 14.6.3, 14.6.4 and V-0 or G.1.1	EL 2009-55	See above Cl. No. 14.7	N/A
	Switch controlling > 0.2A with open contact voltage < 35 V (peak) / 24 V dc complying with 14.6.3 and V-0 or G.1.1	EL 2009-56	See above Cl. No. 14.7	N/A
	Switch controlling ≤ 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 or G.1.1	EL 2009-57	See above Cl. No. 14.7	N/A
14.7.2	Switch tested to 14.7.1 b) checked according to IEC 61058-1 clause 13.1 and 10 000 operation test	EL 2009-58	See above Cl. No. 14.7	N/A
14.7.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use	EL 2009-59	See above Cl. No. 14.7	N/A
14.7.4	Switch tested to 14.6.1 b) has adequate dielectric strength	EL 2009-60	See above Cl. No. 14.7	N/A
14.7.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1	EL 2009-61	See above Cl. No. 14.7	N/A
14.8	Safety interlocks according to 2.8 of IEC 60950-1	EL 2009-62	No safety interlocks used	N/A
14.9	Voltage setting device and the like are not likely to be changed accidentally	EL 2009-63	No voltage setting device used	N/A
14.10	Motors*	EL 2009-64	No motors used	N/A
14.10.1	a) Endurance test on motors	EL 2009-65	See above Cl. No. 14.10	N/A
	b) Motor start test Dielectric strength test	EL 2009-66	See above Cl. No. 14.10	N/A
14.10.2	Not adversely affected by oil or grease etc.	EL 2009-67	See above Cl. No. 14.10	N/A
14.10.3	Protection against moving parts	EL 2009-68	See above Cl. No. 14.10	N/A
14.10.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B	EL 2009-69	See above Cl. No. 14.10	N/A
14.11	Batteries*	EL 2009-70	Safety certified Rechargeable Li-Polymer Battery used (see table 14)	P
14.11.1	Comply with IEC 62133 if applicable *	EL 2009-71	See above Cl. No. 14.11	P
	Batteries mounted with no risk of accumulation of flammable gases	EL 2009-72	See above Cl. No. 14.11	P
14.11.2	No possibility of recharging user replaceable non-rechargeable batteries	EL 2009-73	Not a user replaceable battery	N/A
14.11.3	Recharging currents and times within manufacturers limits	EL 2009-74	Safety certified Rechargeable Li-Polymer Battery used (see table 14)	P

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	Lithium batteries discharge and reverse currents within the manufacturers limits	EL 2009-75	Safety certified Rechargeable Li-Polymer Battery used (see table 14)	P
14.11.4	Battery mould stress relief	EL 2009-76	No such battery used	N/A
14.11.5	Battery drop test	EL 2009-77	See above Cl. No. 14.11.14	N/A
14.12	Opto couplers*	EL 2009-78	No such components used	N/A
	Comply with constructional requirements of clause 8	EL 2009-79	See above Cl. No. 14.12	N/A
	External clearances and creepage comply with 13.1	EL 2009-80	See above Cl. No. 14.12	N/A
	Compound completely filling the casing or internal clearances and creepage comply with 13.1:	EL 2009-81	See above Cl. No. 14.12	N/A
	a) Complies with 13.6 (jointed insulation) and N.3.2	EL 2009-82	See above Cl. No. 14.12	N/A
	b) Complies with IEC 60747-5-5:2007	EL 2009-83	See above Cl. No. 14.12	N/A
	c) Complies with 13.8	EL 2009-84	See above Cl. No. 14.12	N/A
14.13	Surge suppression varistors*	EL 2009-85	No such components used	N/A
	Comply with IEC 61051-2*	EL 2009-86	See above Cl. No. 14.13	N/A
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus	EL 2009-87	See above Cl. No. 14.13	N/A
	GDT bridging basic insulation complies with electric strength and distance requirements	EL 2009-88	See above Cl. No. 14.13	N/A
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13	EL 2009-89	See above Cl. No. 14.13	N/A

*Total number of Requirements to be observed / inspected =09
 Total No. of Applicable Requirement =03
 No of Requirements for which the sample passed =03

Total number of tests to be conducted =85
 Total No. of Applicable Tests =04
 No. of tests for which the sample passed =04

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Test s relating to wiring

EL 2010- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
15	Terminals *	EL 2010-00	See below	N/A
15.1	Plugs and Sockets*	EL 2010-01	Class III equipment, not directly connected to the mains	N/A
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	EL 2010-02	See above Cl. No. 15.1	N/A
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	EL 2010-03	See above Cl. No. 15.1	N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets	EL 2010-04	See above Cl. No. 15.1	N/A
15.1.2	Design of connectors other than for mains power *	EL 2010-05	No such construction	N/A
	Design of sockets with symbol of 5.3 b) design *	EL 2010-06	See above Cl. No. 15.1.2	N/A
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus *	EL 2010-07	See above Cl. No. 15.1.2	N/A
15.2	Provisions for protective earthing	EL 2010-08	Class III equipment	N/A
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	EL 2010-09	See above Cl. No. 15.2	N/A
	Protective earth conductors correctly fixed and coloured	EL 2010-10	See above Cl. No. 15.2	N/A
	Separate protective earth terminal near mains terminal and comply with 15.3	EL 2010-11	See above Cl. No. 15.2	N/A
	Protective earth terminal resistant to corrosion	EL 2010-12	See above Cl. No. 15.2	N/A
	Earth resistance test: $< 0,1 \Omega$ at 25 A :	EL 2010-13	See above Cl. No. 15.2	N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply*	EL 2010-14	Class III equipment, not directly connected to the mains	N/A
15.3.1	Adequate terminals for connection of permanent wiring*	EL 2010-15	See above Cl. No. 15.3	N/A
15.3.2	Reliable connection of non-detachable cords	EL 2010-16	See above Cl. No. 15.3	N/A
	Not soldered to conductors of a printed circuit board	EL 2010-17	See above Cl. No. 15.3	N/A

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	Adequate clearances and creepage distances between connections should a wire break away	EL 2010-18	See above Cl. No. 15.3	N/A
	Wire secured by additional means to the conductor	EL 2010-19	See above Cl. No. 15.3	N/A
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar *	EL 2010-20	Class III equipment, not directly connected to the mains	N/A
15.3.4	Conductors adequately fixed (two independent fixings) *	EL 2010-21	See above Cl. No. 15.3.3	N/A
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area	EL 2010-22	See above Cl. No. 15.3.3	N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	EL 2010-23	See above Cl. No. 15.3.3	N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure	EL 2010-24	No such terminal used	N/A
	Terminals designed to avoid conductor slipping out when tightened	EL 2010-25	See above Cl. No. 15.3.7	N/A
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)	EL 2010-26	See above Cl. No. 15.3.7	N/A
15.3.8	Terminals carrying a current more than 0.2 A, contact pressure not transmitted by insulating material except ceramic*	EL 2010-27	See above Cl. No. 15.3.7	N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other	EL 2010-28	See above Cl. No. 15.3.7	N/A
	Terminals located and shielded: test with 8 mm strand	EL 2010-29	See above Cl. No. 15.3.7	N/A
15.4	Devices forming a part of the mains plug*	EL 2010-30	Class III equipment, not directly connected to the mains	N/A
15.4.1	No undue strain on mains socket-outlets. Device shall be tested on the equipment as per Fig.11: Torque to be applied : 0.25 Nm (Max)	EL 2010-31	See above Cl. No. 15.4	N/A
15.4.2	Device complies with standard for dimensions of mains plugs	EL 2010-32	See above Cl. No. 15.4	N/A
15.4.3	Device has adequate mechanical strength (tests a, b, c)	EL 2010-33	See above Cl. No. 15.4	N/A

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Total No. of Applicable Requirement = 00
No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 23
Total No. of Applicable Tests = 00
No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Test s relating to wiring

EL 2011- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
16	External flexible cords*	EL 2011-00	No External flexible cords used, not directly connected to mains	N/A
16.1	a) - Mains supply flexible cords shall be sheathed type, complying with IEC 60227 for PVC cords or as per IEC 60245 for synthetic rubber cords	EL 2011-01	See above Cl. No. 16	N/A
	b) - Non-detachable cords for Class I have green/yellow core for protective earth	EL 2011-02	See above Cl. No. 16	N/A
16.2	Mains cords conductors shall have a nominal cross-sectional area not less than the values given in Table 18, for rated current consumption of the apparatus	EL 2011-03	See above Cl. No. 16	N/A
16.3	a) Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages, have adequate dielectric strength as per Cl.10.3	EL 2011-04	See above Cl. No. 16	N/A
	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress as per 3.1 of IEC 60227-2 read with except that Table-19 of this ISS applies i)Flexing : 15000 times(30000 movements) ii) Dielectric strength test as per Cl.10.3	EL 2011-05	See above Cl. No. 16	N/A
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions	EL 2011-06	See above Cl. No. 16	N/A
16.5	a) - Adequate strain relief on external flexible cords	EL 2011-07	See above Cl. No. 16	N/A
	b) - Not possible to push cord back into equipment	EL 2011-08	See above Cl. No. 16	N/A
	c) - Strain relief device unlikely to damage flexible cord	EL 2011-09	See above Cl. No. 16	N/A
	d) - For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor	EL 2011-10	See above Cl. No. 16	N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use	EL 2011-11	See above Cl. No. 16	N/A

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16.7	a) Transportable apparatus fitted with detachable cord sets with appliance inlet as per IEC 60320-1 or	EL 2011-12	See above Cl. No. 16	N/A
	b) Transportable apparatus shall have a means of stowage to protect the cord	EL 2011-13	See above Cl. No. 16	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 13
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to wiring

EL 2012- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
17	Electrical connections and mechanical fixings*	EL 2012-00	See below	P
17.1	a) - Screws are loosened and then tightened with a torque according to table 20	EL 2012-01	No such construction	N/A
	b) -5 times in the case of screws operating in a thread of metal	EL 2012-02		N/A
	c) -10 times in the case of screws operating in wood or in a thread in insulating material:	EL 2012-03		N/A
17.2	Correct introduction of screws into female threads in non-metallic material	EL 2012-04	Complies	P
17.3	a) Screws or other fixing devices intended to fix Covers, legs, stands or the like, shall be captive in order to prevent replacement during servicing by screws or other fixing devices.....	EL 2012-05		N/A
	b) Non-captive fixing screws: no hazard when replaced by a screw whose length is 10 times its diameter	EL 2012-06		N/A
17.4	No loosening of conductive parts carrying a current > 0.2 A	EL 2012-07	Complies	P
17.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0.2 A *	EL 2012-08	Complies	P
17.6	Stranded conductors of flexible supply cords carrying a current > 0.2 A with screw terminals not consolidated by solder *	EL 2012-09	No such construction	N/A
17.7	Cover fixing devices other than screws have adequate strength and their positioning is unambiguous	EL 2012-10	No such device used	N/A
17.8	Detachable legs or stands supplied by the manufacturer of the apparatus shall be delivered with the relevant fixing means *	EL 2012-11		N/A
17.9	a) - Internal pluggable connections, affecting safety, unlikely to become disconnected	EL 2012-12	No such possibility	N/A
	b) - By applying a 2N pull force in any direction to the connection, in case of doubt	EL 2012-13		N/A

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Total No. of Applicable Requirement = 01
No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 10
Total No. of Applicable Tests = 02
No. of tests for which the sample passed = 02

Certificate: It is certified that the above tests were performed and found to be passing/ ~~failing~~ in the requirement tested

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Tests relating to Physical Properties

EL 2013- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION*	EL 2013-00	No picture tube used	N/A
18.1	Comply with IEC 61965 or 18.2	EL 2013-01		N/A
18.2	Non-intrinsically protected tubes	EL 2013-02		N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

 Total number of tests to be conducted = 02
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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 (Approving Authority)

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Tests relating to Physical Properties

EL 2014- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
19	Stability and mechanical hazards*	EL 2014-00	See below	P
19.1	Apparatus > 7kg have adequate stability or is required to be fastened in place and provided with the warning of 5.5.2 f)	EL2014-01	Mass <7kg	N/A
	The test of 19.4 – apparatus with a mass of 25 kg or more, or	EL2014-02	No such construction	N/A
	– apparatus, excluding loudspeaker systems, with a height of 1 m or more, or	EL2014-03	No such construction	N/A
	– apparatus, excluding loudspeaker systems, in combination with a supplied or recommended cart or stand with a total height of 1 m or more.	EL2014-04	No such construction	N/A
19.2	Test at 10° to the horizontal	EL2014-02	No such construction	N/A
19.3	Vertical force test 100 N applied downwards	EL2014-03	No such construction	N/A
19.4	Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability	EL2014-04	No such construction	N/A
19.5	Edges or corners not hazardous*	EL2014-05	Edges and corner are rounded & smooth	P
19.6	Mechanical strength of glass	EL2014-06	No such type of construction	N/A
19.6.1	Glass surfaces (exc. laminated) with an area exceeding 0,1 m ² or major dimension > 450 mm, pass the test of 12.1.4	EL2014-07	See above cl no. 19.6.1	N/A
19.6.2	Fragmentation test	EL2014-08	See above cl no. 19.6.1	N/A
19.7	Wall or ceiling mounting means	EL2014-09	Not a wall or ceiling mounting equipment	N/A
19.7.1 - 19.7.3	Not dislodged and remain mechanically intact after test according to 19.7.2 Test 1, Test 2 or Test 3:	EL2014-10	See above cl no. 19.7	N/A

*Total number of Requirements to be observed / inspected = 02
 Total No. of Applicable Requirement = 02
 No of Requirements for which the sample passed = 02

Total number of tests to be conducted = 09
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Physical Properties

EL 2015- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
20	Resistance to fire*	EL2015-00	See below	P
20.1	Start and spread of fire is prevented	EL 2015-01	Complies	P
20.2	Electrical components and mechanical parts	EL 2015-02	See below	P
20.2.1	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with openings not exceeding 1 mm in width	EL 2015-03	No openings	P
	b) Exemption for small components	EL 2015-04	Components are mounted on a PCB at category V-0	P
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5	EL 2015-05	Electrical components complies with requirements of clause 14 & 20.2.5	N/A
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2	EL 2015-06	All internal wiring working on SELV	N/A
20.2.4	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC 60695-11-10, unless used in a fire enclosure	EL 2015-07		N/A
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60695-11-10.	EL 2015-08	PCB material is certified to V-0 Flammability category (See appended table 14)	N/A
20.2.5	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21	EL 2015-09	No such parts or components used	N/A
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13	EL 2015-10	No such construction used	N/A
	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure	EL 2015-11	Voltage <4kV	N/A
20.3	Fire enclosure*	EL 2015-12	See below	N/A

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20.3.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1	EL 2015-13	Class III equipment	N/A
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	EL 2015-14	No internal fire enclosure present	N/A
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	EL 2015-15		N/A

*Total number of Requirements to be observed / inspected = 02
 Total No. of Applicable Requirement = 01
 No of Requirements for which the sample passed = 01

Total number of tests to be conducted = 14
 Total No. of Applicable Tests = 04
 No. of tests for which the sample passed = 04

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Protection against Splashing Water

EL 2016- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
ANNEX A	Annex A, ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER	EL 2016-00	IPX0	N/A
A.5	Marking and instructions*	EL 2016-01	See above annex A	N/A
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply	EL 2016-02	See above annex A	N/A
A.10	Insulation requirements*	EL 2016-03	See above annex A	N/A
A.10.3	Splash and humidity treatment	EL 2016-04	See above annex A	N/A
A.10.3.1	The enclosure provide adequate protection against splashing water	EL 2016-05	See above annex A	N/A
A.10.3.2	Complies with 10.3, duration of the test is 168h	EL 2016-06	See above annex A	N/A

*Total number of Requirements to be observed / inspected = 02
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 05
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Telecommunication Networks

EL 2017- V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
ANNEX B	Annex B, APPARATUS TO BE CONNECTED TO TELECOMMUNICATION THE TELECOMMUNICATION NETWORKS*	EL 2017-00	No telecommunication network used	N/A
	Complies with IEC 62151 clause 1	EL 2017-01	See above annex B	N/A
	Complies with IEC 62151 clause 2	EL 2017-02	See above annex B	N/A
	Complies with IEC 62151 clause 3 modified	EL 2017-03	See above annex B	N/A
	Complies with IEC 62151 clause 4 modified	EL 2017-04	See above annex B	N/A
	Complies with IEC 62151 cause 5 modified	EL 2017-05	See above annex B	N/A
	Complies with IEC 62151 clause 6	EL 2017-06	See above annex B	N/A
	Complies with IEC 62151 clause 7	EL 2017-07	See above annex B	N/A
	Complies with IEC 62151 annex A, B and C	EL 2017-08	See above annex B	N/A

*Total number of Requirements to be observed / inspected = 01
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 08
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Insulation Properties

EL 2018- V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex D	Annex D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS	EL 2018-00	Class III equipment, not directly connected to mains	N/A
D.1	Measuring instrument	EL 2018-01	See above annex D	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 02
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical Safety

EL 2019-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex E	Annex E, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 13)	EL2019-00	Class III equipment, not directly connected to mains	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 01
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical Safety

EL 2020-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex F	Annex F, TABLE OF ELECTROCHEMICAL POTENTIALS	EL 2020-00	Class III equipment	N/A
	Metal(s) used :		See above Annex F	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement =00
 No of Requirements for which the sample passed =N/A

Total number of tests to be conducted = 01
 Total No. of Applicable Tests =00
 No. of tests for which the sample passed =N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical Safety

EL 2021-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex G	Flammability test methods	EL2021-00	Certified materials used (See Table 14)	N/A
G.1	Test as per IEC 60695-11-5	EL2021-01	See above Annex G	N/A
G.1.1	Flame test for V-0 material.	EL2021-02	See above Annex G	N/A
G.1.2	Flame test for V-1 material.	EL2021-03	See above Annex G	N/A
G.1.3	Flame test for V-2 material.	EL2021-04	See above Annex G	N/A
G.1.4	Flame test for HB75 or HB40 material.	EL2021-05	See above Annex G	N/A
G.2	Test for insulation of wires according to IEC 60695-11-5	EL2021-06	See above Annex G	N/A
G.3	Test for barrier according to IEC 60695-11-5	EL2021-07	See above Annex G	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement =00
 No of Requirements for which the sample passed =N/A

Total number of tests to be conducted = 08
 Total No. of Applicable Tests =00
 No. of tests for which the sample passed =N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Wiring

EL 2022-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex H	Annex H, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see8.17)	EL2022-00	Class III equipment, not directly connected to mains	N/A
H.1	General	EL2022-01	See above Annex H	N/A
H.2	Type tests	EL2022-02	See above Annex H	N/A
H.2.1	General		See above Annex H	N/A
H.2.2	Electric strength	EL2022-03	See above Annex H	N/A
H.2.3	Flexibility and adherence	EL2022-04	See above Annex H	N/A
H.2.4	Heat shock	EL2022-05	See above Annex H	N/A
H.2.5	Retention of electric strength after bending	EL2022-06	See above Annex H	N/A
H.3	Testing during manufacturing	EL2022-07	See above Annex H	N/A
H.3.1	General		See above Annex H	N/A
H.3.2	Routine tests	EL2022-08	See above Annex H	N/A
H.3.3	Sampling test	EL2022-09	See above Annex H	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 10
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical safety

EL 2023-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex J	Annex J, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES	EL 2023-00	Alternate method not used	N/A
J.1	General		See above Annex J	N/A
J.2	Summary of the procedure for determining minimum clearances	EL 2023-01	See above Annex J	N/A
J.3	Determination of mains transient voltage (V)	EL 2023-02	See above Annex J	N/A
J.4	Determination of telecommunication network transient voltage (V)	EL 2023-03	See above Annex J	N/A
J.5	Determination of required withstand voltage (V)	EL 2023-04	See above Annex J	N/A
J.5.1	Mains transients and internal repetitive peaks	EL 2023-05	See above Annex J	N/A
J.5.2	Transients from telecommunication networks:	EL 2023-06	See above Annex J	N/A
J.5.3	Combination of transients	EL 2023-07	See above Annex J	N/A
J.5	Measurement of transient voltages (V)	EL 2023-08	See above Annex J	N/A
	a) Transients from a mains supply		See above Annex J	N/A
	For an a.c. mains supply		See above Annex J	N/A
	For a d.c. mains supply		See above Annex J	N/A
	b) Transients from a telecommunication network		See above Annex J	N/A
J.6	Determination of minimum clearances	EL 2023-09	See above Annex J	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 10
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical safety

EL 2024-V1.0

Cl. No.	Test / Requirement name	Test Code	Test result/ observation	Verdict
Annex K	Annex K, IMPULSE TEST GENERATORS (see 13.3.4 and annex J, J.5)	EL 2024-00	Not connected to TNV circuit	N/A
K1	ITU-T impulse test generators	EL 2024-01	See above Annex K	N/A

*Total number of Requirements to be observed / inspected = 00
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 02
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Tests relating to Electrical safety

EL 2025-V1.0

Clause No	Test / Requirement name	Code	Test result/ observation	Verdict
ANNEX L	ANNEX L, ADDITIONAL REQUIREMENTS FOR ELECTRONIC FLASH APPARATUS FOR PHOTOGRAPHIC PURPOSES*	EL 2025-00	No such construction used in equipment	N/A
L.2	General requirements		See above Annex L	N/A
L.4	General test conditions		See above Annex L	N/A
L.5	Marking and instructions*	EL 2025-01	See above Annex L	N/A
L.5.5.1	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used *	EL 2025-02	See above Annex L	N/A
	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used *	EL 2025-03	See above Annex L	N/A
L.7	Heating under normal operating conditions	EL 2025-04	See above Annex L	N/A
L.7.1.6	Lithium batteries meet permissible temp rise in Table 3 *	EL 2025-05	See above Annex L	N/A
L.9	Electric shock hazard under normal operating conditions	EL 2025-06	See above Annex L	N/A
L. 9.1.1.1	Terminals for connection to synchroniser not hazardous live	EL 2025-07	See above Annex L	N/A
L.14	Components	EL 2025-08	See above Annex L	N/A
L.14.6.7	Mains switch characteristics appropriate to its function under normal conditions	EL 2025-09	See above Annex L	N/A

*Total number of Requirements to be observed / inspected = 05
 Total No. of Applicable Requirement = 00
 No of Requirements for which the sample passed = N/A

Total number of tests to be conducted = 05
 Total No. of Applicable Tests = 00
 No. of tests for which the sample passed = N/A

Certificate: It is certified that the above tests were performed and found to be passing/failing in the requirement tested.

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Table EL 2002-(00 to 06)

7.1 TABLE: Heating Test							P
Ambient (°C) :						23.6°C	—
Loudspeaker impedance (Ω) :						--	—
Cond.	Un (V)	Hz	In (A)	Pn (W)	Uout (V)	Pout (W)	Operating Condition / Status
1	5Vdc	--	0.342	1.71	--	--	Maximum Normal load at charging Mode
2	3.8Vdc	--	0.136	0.51	--	--	Maximum Normal load at discharging mode
Test condition No.				dT (K)		dT (K) limit	
Thermocouple Locations				Charging Mode	Discharging Mode	--	
PCB Material				4.6	3.8	105	
PCB Material near charging connector				5.4	4.2	105	
Plastic enclosure				5.6	4.4	50	
Rechargeable Li-Polymer Battery				4.2	6.6	50	
Ambient temperature				23.6	24.8	--	
Supplementary information:							

TABLE: Heating test, resistance method						N/A
Test condition No. :						—
Ambient, t ₁ (°C) :						—
Ambient, t ₂ (°C) :						—
Temperature rise of winding	R ₁ (Ω)	R ₂ (Ω)	ΔT (K)	Max. dT (K)	Insulation class	
--	--	--	--	--	--	
Supplementary information:						

Table EL 2002-07

7.2 TABLE: Heat Resistance of Insulating Materials				N/A
Temperature T of part	T - normal conditions (°C)	T - fault conditions (°C)	Min T softening (°C)	
--	--	--	--	
Supplementary information:				

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Table EL 2005-(03 to 07)

10.4	TABLE: Dielectric Strength	N/A
Test voltage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Between mains poles (primary fuse disconnected)	--	--
Between parts separated by basic or supplementary insulation	--	--
Between parts separated by double or reinforced insulation	--	--
Supplementary information:		

10.4	TABLE: Insulation Resistance Measurements	N/A
Insulation resistance R between:	R (MΩ)	Required R (MΩ)
Between mains poles (primary fuse disconnected)	--	--
Between parts separated by basic or supplementary insulation	--	--
Between parts separated by double or reinforced insulation	--	--
Supplementary information:		

Table EL 2006-(08 to 19)

11	TABLE: Fault Conditions	P		
No.	Component	Fault	dT (K) / Component	Test conditions, test duration, test result
1	Input Connector (+ve & -ve)	Short-circuit	0.5 °C	Equipment working Properly except charging Test duration: 15 Minutes Result: No fire No hazard
Supplementary information:				

Table EL 2008-(01 to 15)

13	TABLE: Clearance And Creepage Distance Measurements	N/A				
Rated supply voltage:	---	Pollution degree:	---	Material Group:	---	
2 N force on internal parts applied:		---		---		
30 N force on outside of conductive enclosure applied:		---		---		
clearance and creepage distance at/of:	Working voltage (V)		Clearance (mm)		Creepage (mm)	
	U peak	U r.m.s.	Required	Measured	required	Measured
---	---	---	---	---	---	---
Supplementary information:						

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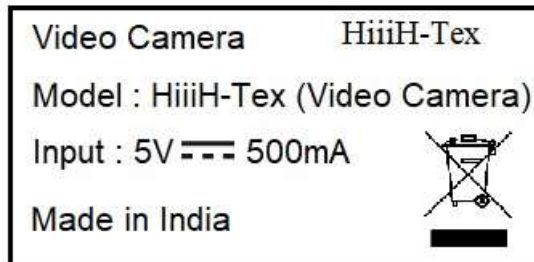
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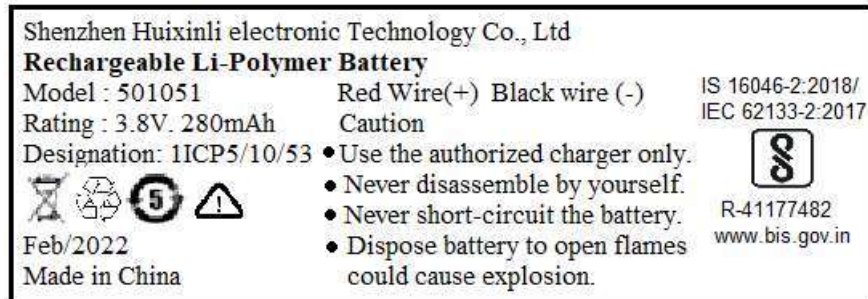
Attachment -I

Copy of marking plate

Marking Label of Video Camera



Marking Label of Rechargeable Li-Polymer Battery



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Photographs of the sample tested

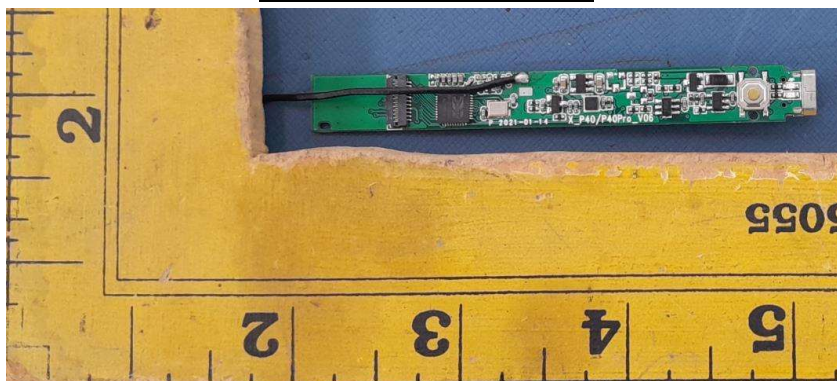
Overall View of Video Camera



Internal View of Video Camera



PCB Front View of Video Camera



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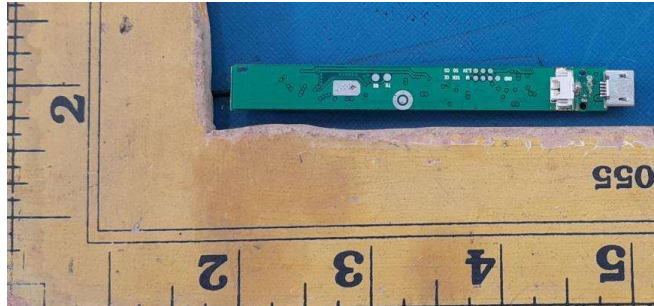
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PCB Back View of Video Camera



Rechargeable Li-Polymer Battery



QR Code
From BIS Test
Request

End of Test Report



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