

TEST REPORT On Behalf of Azlan Logistics Limited HDMI Splitter Model: TC-HDMI12

**Prepared For** 

: Azlan Logistics Limited Redwood 2, Chineham Business Park, Crockford Lane,Basing stoke, Hampshire, RG24 8WQ, United Kingdom

#### **Prepared By**

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 Date of Test:
 Jun.19, 2017 to Jun. 23, 2017

 Date of Report:
 Jun. 23, 2017

 Report Number:
 R0317060135S



TEST REPORT				
	IEC 60065			
Audio, video and sir	nilar electronic apparatus – Safety requirements			
Report				
Report reference No				
Tested by (+ signature)				
Approved by (+ signature)	<sup>1</sup> Jason Xia Anbolek Jason xia			
Date of issue	: Jun.23, 2017			
Contents	: 41 pages			
Testing laboratory				
	<sup>:</sup> Shenzhen Anbotek Compliance Laboratory Limited			
Address	<sup>:</sup> 1/F., Building 1, SEC Industrial Park, No.0409 Qianhai Road,			
	Nanshan District, Shenzhen, Guangdong, China			
Testing location	: As above			
Applicant				
Name	Azlan Logistics Limited			
Address	: Redwood 2, Chineham Business Park, Crockford Lane, Basingstoke, Hampshire, RG24 8WQ, United Kingdom			
Test specification				
Standard	: IEC 60065: 2014			
Test procedure	: Compliance with IEC 60065: 2014			
Non-standard test method				
Test item				
Description				
Trademark	· VISION			
Model/type reference				
Manufacturer	. Azlan Logistics Limited			
	: Redwood 2, Chineham Business Park, Crockford Lane,Basingstoke, Hampshire, RG24 8WQ, United Kingdom			
Factory	•			
Address	: Redwood 2, Chineham Business Park, Crockford Lane,Basingstoke, Hampshire, RG24 8WQ, United Kingdom			
Rating	: Input:5V===1A, 5W (Adapter: 100-240VAC, 50/60Hz,0.4A)			

Particulars: test item vs. test requirements		
Equipment mobility		
Operating condition		
Tested for IT power systems ····································		
IT testing, phase-phase voltage (V)····································		
Class of equipment : Neither class I equipment nor class II equipment		
Protection against ingress of water : IPX0		
Possible test case verdicts		
-test case does not apply to the test object N/A (Not Applicable))		
-test object does meet the requirement ····································		
-test object does not meet the requirement		
Testing		
Date of receipt of test item		
Data of performance of test		
General remarks		
"(See remark #)" refers to a remark appended to the report.		
"(See appended table)" refers to a table appended to the report.		
Throughout this report a dot is used as the decimal separator.		
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 testing laboratory.		
Procedure deviation		
N.A.		
Comments		
N.A.		
General product information		
1 Clearance was evaluated for altitude up to 2000m shows assisted		
1. Clearance was evaluated for altitude up to 2000m above sea level.		
2. HDMI Splitter, used indoor only and the maximum operating temperature is $35^{\circ}$ C.		
3. Adapter: input:100-240VAC, 50/60Hz,0.4A, output: 5VDC, 2A		



#### Copy of marking plate(s)

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

HDMI Splitter Model: TC-HDMI12 Input: 5V=1A, 5W Azlan Logistics Limited Made in China



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		IEC 60065		
Clause	Requirement – Test		Result - Remark	Verdict

3	GENERAL REQUIREMENTS		
		Neither class I equipment nor class II equipment	Р

4	GENERAL TEST CONDITIONS		
4.1.4	Ventilation instructions require the use of the test	Tested according to user	N/A
	box	manual	

5	MARKING AND INSTRUCTIONS		
-			
5.1	General requirements		Р
	Comprehensible and easily discernible		P
	Permanent durability against water and petroleum spirit		P
5.2	Identification and supply rating		P
	a) Identification, maker	Azlan Logistics Limited	Р
	b) Model number or type reference:	TC-HDMI12	Р
	c) Class II symbol or Class II with functional earth symbol if applicable	Not class II equipment	N/A
	d) Nature of supply:		Р
	e) Rated supply voltage	5V	Р
	f) Mains frequency if safety dependant:		N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use, on apparatus or in instruction manual	1A, 5W	Р
	Measured current or power consumption	(see appended table 7.1)	Р
	Deviation % (max 10%):	(see appended table 7.1)	Р
	h) Rated current or power consumption for apparat- us intended for connection to an a.c. mains supply.:		N/A
	Measured current or power consumption		N/A
	Measured current or power consumption for Television set:		Р
	Deviation % (max 10%):		N/A
	Symbols explained in the user manual		N/A
5.3	Terminals	,	N/A
	a) Earth terminal	No earth terminal	N/A
	b) Hazardous live terminals		N/A
	c) Markings on supply output terminals		N



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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
5.4	Caution marking		Р
	a) Use of triangle with exclamation mark		Р
	b) Marking on loudspeaker grille, IEC 60417-5036		N/A
	c) User-replaceable coin / button cell battery marking	No battery	N/A
5.5	Instructions		Р
5.5.1	Safety relevant information	English	Р
5.5.2	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.	Mentioned in user manual	N/A
	b) Hazardous live terminals, instructions for wiring		N/A
	c) Instructions for replacing lithium battery		N/A
	d) Class I earth connection warning		N/A
	e) Instructions for multimedia system connection		Р
	f) Special stability warning for attachment of the apparatus to the floor/wall		N/A
	g) Warning: battery exposure to heat		N/A
	h) Warning: protective film on CRT face	No CRT	N/A
	i) Warning: Non-floor standing TV >7kg		N/A
	j) Warning: User replaceable coin / button cell battery		N/A
5.5.3	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings		N/A
	c) Instructions for permanently connected equipment		N/A
	Marking, signal lamps or similar for completely disconnection from the mains		N/A

6	HAZARDOUS RADIATION		
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)	No ionizing radiation	N/A
	Ionizing radiation under fault condition		N/A
6.2	Laser radiation, emission limits to IEC 60825-1:2007	No laser radiation	N/A
	Emission limits under fault conditions:		N/A
6.3	Light emiting diodes (LEDs) according to IEC 62471		N/A

7	HEATING UNDER NORMAL OPERATING CONDITIONS	
7.1	General	Р



	IEC 60065				
Clause	Requirement – Test	Result - Remark	Verdict		
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	(see appended table 7.1)	Р		
7.1.2	Temperature rise of accessible parts	(see appended table 7.1)	Р		
7.1.3	Temperature rise of parts providing electrical insulation	(see appended table 7.1)	Р		
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	(see appended table 7.1)	Р		
7.1.5	Temperature rise of windings	(see appended table 7.1)	Р		
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4	(see appended table 7.1)	Р		
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0,2 A at least 150 °C		N/A		

8	CONSTRUCTIONAL REQUIREMENTS WITH REG AGAINST ELECTRIC SHOCK	ARD TO THE PROTECTION	
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare		N/A
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	No such components are replaced by hand	N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material	No hygroscopic material used	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	No cover removable barely by hand. Tools are required.	N/A
8.5	Class I apparatus		N/A
	Basic insulation between hazardous live parts and earthed accessible parts	Not class I apparatus	N/A
	Resistors bridging basic insulation complying with 14.2 a)		N/A
	Capacitors bridging basic insulation complying with 14.3.2 a)		N/A
	Protective earthing terminal		N/A
8.6	Class II apparatus		N/A
	a) Basic and supplementary insulation between hazardous live parts and accessible parts	Not class II apparatus	N/A
	b) Reinforced insulation between hazardous live parts and accessible parts		N/A
8.7	Components bridging insulation		N/A
	Basic insulation bridged by components complying with 14.4.5.3		N/A



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	IEC 60065		1
Clause	Requirement – Test	Result - Remark	Verdict
	Components bridging basic, supplementary, double or reinforced insulation complying with 14.2 a) or 14.4		N/A
	Basic and supplementary insulation each being bridged by a capacitor or RC-unit complying with 14.3.2 a)		N/A
	Double or reinforced insulation being bridged with 2 capacitors or RC-units in series complying with 14.3.2 a)		N/A
	Double or reinforced insulation being bridged with a single capacitor or RC-unit complying with 14.3.2 b)		N/A
8.8	Insulation thickness and thin sheet materials		N/A
	Basic or supplementary insulation > 0,4 mm (mm):		N/A
	Reinforced insulation > 0,4 mm (mm):		N/A
	Thin sheet material used inside the equipment		N/A
	Basic or supplementary insulation, at least two layers, each meeting 10.4		N/A
	Basic or supplementary insulation, three layers any two of which meet 10.4		N/A
	Reinforced insulation, two layers each of which meet 10.4		N/A
	Reinforced insulation, three layers any two which meet 10.4		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		N/A
8.10	Double insulation between accessible parts and conductors connected to the mains		N/A
	Double insulation between conductors connected to accessible parts and parts connected to the mains		N/A
8.11	Detaching of wires	1	N/A
	No undue reduction of creepage or clearance distances if wires become detached		N/A
	Vibration test carried out:		N/A
8.12	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)		N/A
8.13	Adequate fastening of covers (push/pull test 50 N for 10 s)		N/A
8.14	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges		N/A
8.15	Only special supply equipment can be used		N/A



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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
8.16	Insulated winding wire without additional interleaved insulation		N/A
8.17	Endurance test as required by 8.16		N/A
8.18	Disconnection from the mains		N/A
	Disconnect device		N/A
	All-pole switch or circuit breaker with >3mm contact separation	No such device within the EUT	N/A
	Mains switch ON indication		N/A
8.19	Switch not fitted in the mains cord	n C/	N/A
8.20	Bridging components comply with clause 14	No such component used to bridge	N/A
8.21	Non-separable thin sheet material	No such material	N/A

9	ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITION	
9.1	Testing on the outside	N/A
9.1.1	General	N/A
9.1.1.1	Requirements	N/A
	Accessible parts shall not be hazardous live	N/A
	Inaccessible terminals are not accessible or comply with relevant requirements	N/A
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation	N/A
9.1.1.2	Determination of hazardous live parts	N/A
	a) Open circuit voltages	N/A
	b) Touch current measured from terminal devices using the network in annex D	N/A
	c) Discharge not exceeding 45 µC	N/A
1	d) Energy of discharge not exceeding 350 mJ	N/A
9.1.1.3	Test with test finger and test probe	N/A
9.1.2	No hazardous live shafts of knobs, handles or levers	N/A
9.1.3	Ventilation holes and other holes tested by means of 4 mm x 100 mm test pin	N/A
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032	N/A
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032	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	N/A



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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
9.1.6	Withdrawal of the mains plug		N/A
	No shock hazard due to stored charge after 2 s :	No X-cap. used	N/A
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited		N/A
	If C is not greater than 0,1 µF no test needed		N/A
9.1.7	Resistance to external force		N/A
	a) Test probe 11 of IEC 61032 for 10 s (50 N)		N/A
	b) Test hook of fig. 4 for 10 s (20 N)		N/A
	c) 30 mm diameter test tool for 5 s (100 or 250 N)		N/A
9.2	No hazard after removing a cover by hand	No such cover can be removed by hand	N/A

10	INSULATION REQUIREMENTS		
10.2	Insulation resistance ( $M\Omega$ ) at least 2 $M\Omega$ min. after surge test for basic and 4 $M\Omega$ min. for reinforced insulation		N/A
10.3	Humidity treatment 48 h or 120 h	48 h	Р
10.4	Insulation resistance and dielectric strength		Р
	Between parts of different polarity directly connected to the mains	(see appended table 10.3)	N/A
	Between parts separated by BASIC or SUPPLEMENTARY insulation	(see appended table 10.3)	Р
	Between parts separated by REINFORCED insulation	(see appended table 10.3)	N/A

11	FAULT CONDITIONS		
11.1	No shock hazard under fault condition		Р
11.2	Heating	·	Р
11.2.1	Requirements		Р
	No danger of fire to the surroundings		Р
	Safety not impaired by abnormal heat		Р
	Flames extinguish within 10 seconds		N/A
	No hazard from softening solder		N/A
	Soldered terminations not used as protective mechanism		Р
11.2.2	Measurement of temperature rises	(see appended table 11.2)	Р
11.2.3	Temperature rise of accessible parts	(see appended table 11.2)	Р



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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation	(see appended table 11.2)	N/A
11.2.5	Temperature rise of parts acting as a support or mechanical barrier		Р
11.2.6	Temperature rise of windings	(see appended table 11.2)	N/A
11.2.7	Printed boards		Р
	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	(see appended table 11.2)	Р
	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 <sup>2</sup>	R	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 <sup>2</sup> for a maximum of 5 min		N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted		N/A
	Class I protective earthing maintained		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".	(see appended table 11.2)	Р

12	MECHNICAL STRENGTH		
12.1	Complete apparatus		Р
12.1.1	The apparatus have adequate mechanical strength		Р
12.1.2	Bump test where mass >7 kg	<7Kg	N/A
12.1.3	Vibration test		Р
12.1.4	Impact hammer test		Р
1	Steel ball test		Р
12.1.5	Drop test for portable apparatus where mass ≤ 7 kg	1000mm, 3 times	Р
12.1.6	Thermoplastic enclosures stress relief test	Metal enclosure	N
12.2	Fixing of knobs, push buttons, keys and levers		Р
12.3	Remote controls with hazardous live parts		N/A
12.4	Drawers (pull test 50 N, 10 s)		N/A
12.5	Antenna coaxial sockets providing isolation		N/A
12.6	Telescoping or rod antennas	·	N/A
12.6.1	6,0mm diameter end		N/A
	Prevented from falling into the apparatus		N/A



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IEC 60065		
Requirement – Test	Result - Remark	Verdict
	1	1
Physical securement, removal prevented		N/A
Apparatus containing coin / button cell batteries		N/A
Reduced possibility for children to remove battery		N/A
Tests		N/A
Stress relief test		N/A
Battery replacement test		N/A
Drop test		N/A
Impact test		N/A
Battery not accessible; or not removable		N/A
	Requirement – Test         Physical securement, removal prevented         Apparatus containing coin / button cell batteries         Reduced possibility for children to remove battery         Tests         Stress relief test         Battery replacement test         Drop test         Impact test	Requirement – Test       Result - Remark         Physical securement, removal prevented       Apparatus containing coin / button cell batteries         Reduced possibility for children to remove battery       Tests         Stress relief test       Stress relief test         Battery replacement test       Drop test         Impact test       Impact test

13	CLEARANCES AND CREEPAGE DISTANCES	
13.1	Clearances in accordance with 13.3	N/A
	Creepage distances in accordance with 13.4	N/A
13.2	Determination of working voltage	N/A
13.3	Clearances	N/A
13.3.1	Comply with 13.3 or Annex J	N/A
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9	N/A
13.3.3	Circuits not conductively connected to the mains comply with table 10	N/A
13.3.4	Measurement of transient voltages	N/A
13.4	Creepage distances not less than appropriate table 11 minimum values	N/A
13.5	Printed boards	N/A
13.5.1	Conductors complying with pull-of and peel strength requirements, one of which may be conductively connected to the mains, as in fig. 10	N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)	N/A
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4	N/A
	Conductive parts along reliably cemented joints comply with 8.8	N/A
	Temperature cycle test and dielectric strength test	N/A
	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety	N/A



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	IEC 60065		1
Clause	Requirement – Test	Result - Remark	Verdict
13.7	Enclosed, enveloped or hermetically sealed parts not conductively connected to the mains, clearances and creepage distances as in table 12		N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8		N/A
14	COMPONENTS		
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2.5	20	Р
14.2	Resistors		N/A
	Resistors separately approved		N/A
	a) Resistors between hazardous live parts and accessible metal parts		N/A
	b) Resistors, other than between hazardous live parts and accessible parts		N/A
14.3	Capacitors and RC units		N/A
	Capacitors separately approved :		N/A
14.3.1	Damp heat test duration 21 days		N/A
14.3.2	Y capacitors tested to IEC 60384-14:2005	No Y-cap. used	N/A
14.3.3	X capacitors tested to IEC 60384-14:2005:	No X-cap. used	N/A
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2		N/A
14.3.6	Capacitors with volume exceeding 1750 mm <sup>3</sup> , where short-circuit current exceeds 0,2 A: compliance with IEC 60384-1, 4.38 category B or better:		N/A
	Capacitors with volume exceeding 1750 mm <sup>3</sup> , mounted closer to a potential ignition source than table 13 permits: compliance with IEC 60384-1, 4.38 category B or better		N/A
14.4	Inductors and windings		N/A
14.4.1	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.2.5		N/A
	Transformers and inductors separately approved .:		N/A
14.4.2	Transformers and inductors marked with manufacturer's name and type		N/A
14.4.3	General		N/A
	1.1.1.1 Insulation material complies with clause 20.2.5		N/A
14.4.4	Constructional requirements		N/A
14.4.4.1	Clearances and creepage distances comply with clause 13		N/A



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	IEC 60065	1	I
Clause	Requirement – Test	Result - Remark	Verdict
14.4.4.2	Transformers meet the constructional requirements		N/A
14.4.5	Separation between windings		N/A
14.4.5.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
	Coil formers and partition walls > 0,4 mm		N/A
14.4.5.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions are met		N/A
14.4.5.3	Separating transformers with at least basic insulation	500	N/A
14.4.6	Insulation between hazardous live parts and acce	essible parts	N/A
14.4.6.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
	Coil formers and partition walls > 0,4 mm		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		N/A
	Winding wires connected to protective earth have adequate current-carrying capacity		N/A
14.5	High voltage components and assemblies (U > 4k	(V peak)	N/A
14.5.1	Component meets category V-1 of IEC 60695-11-10		N/A
14.5.2	High voltage transformers and multipliers		N/A
14.5.3	High voltage assemblies and other parts		N/A
14.6	Protective devices		N/A
14.6.1	Protective devices used within their ratings		N/A
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened		N/A
14.6.2	Thermal releases	·	N/A
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4		N/A
14.6.2.2	a) Thermal cut-outs separately approved		N/A
	b) Thermal cut-outs tested as part of the submission		N/A
14.6.2.3	a) Thermal links separately approved		N/A
	b) Thermal links tested as part of the submission		N/A
14.6.2.4	Thermal devices re-settable by soldering		N/A
14.6.3	Fuses and fuse holders		N/A



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	IEC 60065	1	
Clause	Requirement – Test	Result - Remark	Verdict
14.6.3.1	Fuse-links in the mains circuit according to IEC 60127		N/A
14.6.3.2	Correct marking of fuse-links adjacent to holder:		N/A
14.6.3.3	Not possible to connect fuses in parallel		N/A
14.6.3.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool		N/A
14.6.4	PTC thermistors comply with IEC 60730-1:2010		N/A
	PTC devices (>15 W) category V-1 or better		N/A
14.6.5	Circuit protectors have adequate breaking capacity and their position is correctly marked		N/A
14.7	Switches		N/A
14.7.1 a)	Separate testing to IEC 61058-1 including: - 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		N/A
14.7.1 b)	Tested in the apparatus		N/A
	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		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		N/A
	Switch controlling $\leq$ 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 or G.1.1		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		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		N/A
14.7.4	Switch tested to 14.6.1 b) has adequate dielectric strength		N/A
14.7.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1		N/A
14.8	Safety interlocks according to 2.8 of IEC 60950-1		N/A
14.9	Voltage setting device and the like are not likely to be changed accidentally		N/A
14.10	Motors		N/A
14.10.1	a) Endurance test on motors		N/A
	b) Motor start test		N/A



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	IEC 60065	1	
Clause	Requirement – Test	Result - Remark	Verdic
	Dielectric strength test		N/A
14.10.2	Not adversely affected by oil or grease etc.		N/A
14.10.3	Protection against moving parts		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		N/A
14.11	Batteries		N/A
14.11.1	Comply with IEC 62133 if applicable		N/A
	Batteries mounted with no risk of accumulation of flammable gases		N/A
14.11.2	No possibility of recharging user replaceable non- rechargeable batteries		N/A
14.11.3	Recharging currents and times within manufacturers limits		N/A
	Lithium batteries discharge and reverse currents within the manufacturers limits		N/A
14.11.4	Battery mould stress relief		N/A
14.11.5	Battery drop test		N/A
14.12	Optocouplers		N/A
	Comply with constructional requirements of clause 8	No such component	N/A
	External clearances and creepage comply with 13.1		N/A
	Compound completely filling the casing or internal clearances and creepage comply with 13.1		N/A
	a) Complies with 13.6 (jointed insulation) and N.3.2		N/A
	b) Complies with IEC 60747-5-5:2007		N/A
	c) Complies with 13.8		N/A
14.13	Surge suppression varistors		N/A
1	Comply with IEC 61051-2		N/A
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus		N/A
	GDT bridging basic insulation complies with electric strength and distance requirements		N/A
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13		N/A

15	TERMINALS	
15.1	Plugs and sockets	N/A



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	IEC 60065	1	1
Clause	Requirement – Test	Result - Remark	Verdict
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	(see appended table 14)	N/A
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets		N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets		N/A
15.1.2	Design of connectors other than for mains power		N/A
	Design of sockets with symbol of 5.3 b) design		N/A
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus		N/A
15.2	Provision for protective earthing		N/A
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Not class I equipment	N/A
	Protective earth conductors correctly fixed and coloured		N/A
	Separate protective earth terminal near mains terminal and comply with 15.3		N/A
	Protective earth terminal resistant to corrosion		N/A
	Earth resistance test: < 0,1 $\Omega$ at 25 A		N/A
15.3	Terminals for external flexible cords and for perm mains supply	anent connection to the	N/A
15.3.1	Adequate terminals for connection of permanent wiring		N/A
15.3.2	Reliable connection of non-detachable cords		N/A
	Not soldered to conductors of a printed circuit board		N/A
	Adequate clearances and creepage distances between connections should a wire break away		N/A
	Wire secured by additional means to the conductor		N/A
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar		N/A
15.3.4	Conductors adequately fixed (two independent fixings)		N/A
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area		N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16		N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure		N/A



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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
	Terminals designed to avoid conductor slipping out when tightened		N/A
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)		N/A
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic		N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other		N/A
	Terminals located and shielded: test with 8 mm strand		N/A
15.4	Devices forming a part of the mains plug		N/A
15.4.1	No undue strain on mains socket-outlets		N/A
15.4.2	Device complies with standard for dimensions of mains plugs		N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N/A

16	EXTERNAL FLEXIBLE CORDS		
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords	No such EXTERNAL FLEXIBLE CORDS	N/A
	Non-detachable cords for Class I have green/yellow core for protective earth		N/A
16.2	Mains cords conductors have adequate cross- sectional area for rated current consumption of the equipment		N/A
16.3	Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages comply with a) and b)		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		N/A
16.5	Adequate strain relief on external flexible cords		N/A
	Not possible to push cord back into equipment		N/A
	Strain relief device unlikely to damage flexible cord		N/A
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		N/A



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	IEC 60065				
Clause	Requirement – Test	Result - Remark	Verdict		
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use		N/A		
16.7	Transportable apparatus have appliance inlet according to IEC 60320-1 or means of stowage to protect the cord		N/A		

17	ELECTRICAL CONNECTIONS AND MECHANICAL	FIXINGS	
17.1	Table 20 torque test metal thread, 5 times:	Screws for fixing enclosure: Diameter: 2,95 mm Torque: 0,5 Nm	Р
	Table 20 torque test non-metallic thread, 10 times:		N/A
17.2	Correct introduction into female threads in non- metallic material		Р
17.3	Cover fixing screws captive or no hazard when replaced by a screw whose length is 10 times its diameter		Р
17.4	No loosening of conductive parts carrying a current > 0,2 A		Р
17.5	Contact pressure not transmitted through insulating material other than ceramic for connections carrying a current > 0,2 A		N/A
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder		N/A
17.7	Cover fixing devices have adequate strength and their positioning is unambiguous		N/A
17.8	Fixing means for detachable legs or stands provided		N/A
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected		Р

18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		
18.1	Comply with IEC 61965 or 18.2		N/A
18.2	Non-intrinsically protected tubes		N/A

19	STABILITY AND MECHANICAL HAZARDS	
	Apparatus > 7kg have adequate stability or is required to be fastened in place and provided with the warning of 5.5.2 f)	N/A
19.2	Test at 10° to the horizontal	N/A



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IEC 60065	1	
Requirement – Test	Result - Remark	Verdict
Vertical force test 100 N applied downwards		N/A
Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability		N/A
Edges or corners not hazardous		Р
Mechanical strength of glass		N/A
Glass surfaces (exc.laminated) with an area exceeding 0,1 m <sup>2</sup> or major dimension > 450 mm, pass the test of 12.1.4		N/A
Fragmentation test		N/A
Wall or ceiling mounting means		N/A
Not dislodged and remain mechanically intact after test according to 19.7.2 Test 1, Test 2 or Test 3:		N/A
	Requirement – Test         Vertical force test 100 N applied downwards         Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability         Edges or corners not hazardous         Mechanical strength of glass         Glass surfaces (exc.laminated) with an area exceeding 0,1 m² or major dimension > 450 mm, pass the test of 12.1.4         Fragmentation test         Wall or ceiling mounting means         Not dislodged and remain mechanically intact after	Requirement – Test       Result - Remark         Vertical force test 100 N applied downwards       Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability         Edges or corners not hazardous       Mechanical strength of glass         Glass surfaces (exc.laminated) with an area exceeding 0,1 m² or major dimension > 450 mm, pass the test of 12.1.4       Fragmentation test         Wall or ceiling mounting means       Not dislodged and remain mechanically intact after

20	RESISTANCE TO FIRE		
20.1	Start and spread of fire is prevented		Р
20.2	Electrical components and mechanical parts		N/A
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		N/A
	b) Exemption for small components		Р
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		Р
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		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	PWB is of V-0 material	P
	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.	PWB is of V-0 material	Р
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	(see appended table 14)	P
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A



	IEC 60065				
Clause	Requirement – Test	Result - Remark	Verdict		
	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		N/A		
20.3	Fire enclosure		N/A		
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		N/A		
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled		N/A		
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure		N/A		

ANNEX A	ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER	
A.5	Marking and instructions	N/A
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply	N/A
A.10	Insulation requirements	N/A
A.10.3	Splash and humidity treatment	N/A
A.10.3.1	The enclosure provide adequate protection against splashing water	N/A
A.10.3.2	Complies with 10.3, duration of the test is 168h	N/A

ANNEX B	APPARATUS TO BE CONNECTED TO TELECOMUNICATION THE TELECOMMUNICATION NETWORKS	
	Complies with IEC 62151 clause 1	N/A
	Complies with IEC 62151 clause 2	N/A
	Complies with IEC 62151 clause 3 modified	N/A
	Complies with IEC 62151 clause 4 modified	N/A
	Complies with IEC 62151 cause 5 modified	N/A
	Complies with IEC 62151 clause 6	N/A
	Complies with IEC 62151 clause 7	N/A
	Complies with IEC 62151 annex A, B and C	N/A

ANNEX L	ADDITIONAL REQUIREMENTS FOR ELECTRONIC FLASH APPARATUS FOR
	PHOTOGRAPHIC PURPOSES

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	IEC 60065		
Clause	Requirement – Test	Result - Remark	Verdict
L.5	Marking and instructions		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		N/A
	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N/A
L.7	Heating under normal operating conditions		N/A
L.7.1.6	Lithium batteries meet permissible temp rise in Table 3		N/A
L.9	Electric shock hazard under normal operating co	nditions	N/A
L. 9.1.1.1	Terminals for connection to synchroniser not hazardous live		N/A
L.14	Components		N/A
L.14.6.7	Mains switch characteristics appropriate to its function under normal conditions		N/A

#### ATTACHMENT TO TEST REPORT IEC 60065 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

(Audio, video and similar electronic apparatus – Safety requirements)

Differences according to	EN 60065:2014				
Attachment Form No	EU_GD_IEC60065L				
Attachment Originator	Intertek Semko AB				
Master Attachment	Date 2015-03				
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	CENELEC COMMON MO	DIFICATIONS	(EN)			
General	1.1.3 Note 2		Note	5.5.2	Note 1 and Note 2	Р
	13.3.1 Note 4	14.1	Note 1 and	15.1.1	Note 1 and	
			Note 2		Note 2	
	15.2 Note 2	16.1	Note 2	16.2	Note	
	20 Note		Note 1 and			
		Table J.1	Note 2			
1.2	Normative references					
	Add the following: EN 71-1, Safety of toys – F physical properties EN 50332-1, Sound system Headphones and earphone personal music players – M pressure level measuremen 1: General method for "one EN 50332-2, Sound system Headphones and earphone personal music players – M pressure level measuremen 2: Matching of sets with her both are offered separately package equipment but wit connectors between the tw components of different ma different design	n equipment: es associated faximum soun nt methodolog package equipment: es associated faximum soun nt methodolog adphones if en c, or are offere h standardise o allowing to o	with od iy – Part ipment" with od iy – Part ither or d as one d combine			N/A
3	General requirements					
3.Z1	<ul> <li>Protective devices</li> <li>To protect against excessive circuits and earth faults in M devices shall be included error of the equipment or as part installation, subject to the final except as detailed in b) are devices necessary to compare requirements of Clause 11 parts of the equipment;</li> <li>b) for components in series mains input to the equipment cord, appliance coupler, r.f. short-circuit and earth fault provided by protective devi installation;</li> <li>c) it is permitted for equipment</li> </ul>	MAINS, protect ither as integristic s of the buildin ollowing, a), b and c), protect by with the shall be include or parallel with the such as the i. filter and sw protection matces in the buil	tive al parts ng ) and c): tive ded as th the e supply <i>r</i> itch, ay be ding			Ρ



	industrial mains plug or for PERMANENTLY	
	CONNECTED APPARATUS, to rely on dedicated	
	over current and short-circuit protection in the	
	building installation, provided that the means of	
	protection, e.g. fuses or circuit breakers, is fully	
	specified in the installation instructions.	
	If reliance is placed on protection in the building	
	installation, the installation instructions shall so	
	state, except that for apparatus not supplied via	
	an industrial mains plug or for PERMANENTLY	
	CONNECTED APPARATUS the building	
	installation shall be regarded as providing	
	protection in accordance with the rating of the	
	wall socket outlet.	
4	General test conditions	
4.1.1	Replace the text of the note by:	N/A
	NOTE For ROUTINE TEST, reference is made to EN	
	50514:2008.	
6	Hazardous radiations	
6.1	Replace the entire subclause by the following:	N/A
	Apparatus including a potential source of ionizing	
	radiation shall be so constructed that personal	
	protection against ionizing radiation is provided	
	under normal operating conditions and under fault	
	conditions.	
	Compliance is checked by measurement under	
	the following conditions:	
	In addition to the normal operating conditions, all	
	controls adjustable from the outside BY HAND, by	
	any object such as a tool or a coin, and those	
	internal adjustments or pre-sets which are not	
_	locked in a reliable manner, are adjusted so as to	
	give maximum radiation whilst maintaining an	
	intelligible picture for 1 h, at the end of which the	
	measurement is made.	
	NOTE 1 Soldered joints and paint lockings are examples of	
	adequate locking.	
	The dose-rate is determined by means of a	
	radiation monitor with an effective area of 10 cm <sup>2</sup> ,	
	at any point 10 cm from the outer surface of the	
	apparatus	
	Moreover, the measurement shall be made under	
	fault conditions causing an increase of the high-	
	voltage, provided an intelligible picture is	
	maintained for 1 h, at the end of which the	
	measurement is made.	
	The dose-rate shall not exceed 1 $\mu$ Sv/h (0,1	
	mR/h) taking account of the background level.	
	NOTE 2 These values appear in Council Directive	
	96/29/Euratom of 13 May 1996.	
	A picture is considered to be intelligible if the	
	following conditions are met:	
	- a scanning amplitude of at least 70 % of the	
	usable screen width;	
	- a minimum luminance of 50 cd/m² with locked	
	blank raster provided by a test generator;	
	- a horizontal resolution corresponding to at least	
	1,5 MHz in the centre, with a similar vertical	



	degradation; - not more than one flashover per 5 min.	
16	External flexible cords	
16.1	Add the following note after the first paragraph: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.	N/A

1.2 Z1	1.3 Protection against excessive sound pressure from personal music players		
Z1.1	General This subclause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment for personal use, that: - is designed to allow the user to listen to recorded or broadcast sound or video; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - is body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around while in use. EXAMPLES CD players MP3 audio players, mobile phones with MP3 type features, PD4s or similar equipment. A personal music player shall comply with the requirements of this subclause. NOTE 1 Protection against acoustic energy sources from telecom terminal equipment is referenced to ITU-T Recommendiation P.360. The requirements on this subclause are valid for music or video mode only. The requirements on to a popy to: - professional equipment and other devices for assistive listening: - the following types of analogue personal music players: - long distance radio receiver (for example, a multiband radio receiver, an AM radio receiver) and - is desting to the user to walk around while in use. For equipment clearly designed or intended for	N/A	

	use by young children, the limits of EN 71-1	
	apply.	
Z1.2	Equipment requirements	N/A
	No safety provision is required for equipment that	
	complies with the following:	
	- equipment provided as a package (personal	
	music player with its listening device), where the	
	acoustic output $L_{Aeq,T}$ is $\leq 85 \text{ dB}(A)$ measured	
	while playing the fixed "programme simulation	
	noise" as described in EN 50332-1; and	
	- personal music player provided with an	
	analogue electrical output socket for a listening	
	device, where the electrical output is $\leq 27 \text{ mV}$	
	measured as described in EN 50332-2, while	
	playing the fixed "programme simulation noise" as	
	described in EN 50332-1.	
	NOTE 1 Wherever the term acoustic output is used in this subclause, the 30 s A-weighted equivalent sound pressure level LAeq,T is meant. See also Z1.5 and Annex ZE.	
	All other equipment shall:	
	a) protect the user from unintentional acoustic	
	outputs exceeding those mentioned above; and	
	b) have a standard acoustic output level not	
	exceeding those mentioned above, and	
	automatically return to an output level not	
	exceeding those mentioned above when the	
	power is switched off; and	
	c) provide a means to actively inform the user of	
	the increased sound pressure when the	
	equipment is operated with an acoustic output	
	exceeding those mentioned above. Any means used shall be acknowledged by the user before	
	activating a mode of operation which allows for an	
	acoustic output exceeding those mentioned	
	above. The acknowledgement does not need to	
	be repeated more than once every 20 h of	
	cumulative listening time; and	
	NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.	
	NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched off.	
	d) have a warning as specified in Z1.3; and	
	e) not exceed the following:	
	1) equipment provided as a package (player with	
	its listening device), the acoustic output shall be $\leq$	
	100 dB(A) measured while playing the fixed	
	"programme simulation noise" described in EN	
	50332-1; and	
	2) a personal music player provided with an	
	analogue electrical output socket for a listening	
	device, the electrical output shall be $\leq 150 \text{ mV}$	
	measured as described in EN 50332-2, while	
	playing the fixed "programme simulation noise"	
	described in EN 50332-1.	
	For music where the average sound pressure	
	(long term $L_{Aeq,T}$ ) measured over the duration of	
	the song is lower than the average produced by	
	the programme simulation noise, the warning	
	does not need to be given as long as the average	
	sound pressure of the song does not exceed the	
	basic limit of 85 dB(A). In this case, <i>T</i> becomes	



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Intermeter and the owner programme simulation one. Therefore, if the player is capable to univergener and the owner player player is a set in the playe		the duration of the song.		
generation of the average source of the source of the State Link of the State Link of the State State Link of the source of the source average and the source of the so		lower than the average programme simulation noise. Therefore, if the player is capable to analyse		
Z1.3       The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: <ul> <li>the symbol of Figure Z1 with a minimum height of 5 mm; and</li> <li>the symbol of Figure Z1 with a minimum height of 5 mm; and</li> <li>the following wording, or similar:</li> <li>To prevent possible hearing damage, do not listen at high volume levels for long periods.</li> </ul> <li>Figure Z1 - Warning label (IEC 60417-6044)         <ul> <li>Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.</li> </ul> </li> <li>Z1.4 Requirements for listening devices (headphones, earphones, etc.)</li> <li>N/A</li> <li>N/A</li> <li>Xin 94 dB(A) sound pressure output LAeq.T, the input Vith 94 dB(A) sound pressure output LAeq.T, the input Vith 94 dB(A) sound pressure output LAeq.T, the input Vith 94 dB(A) sound pressure output LAeq.T, the equilable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).</li> <li>XIA:</li> <li>XiA:</li> <li>Cordes listening devices (headphones level addition addition additional sound feature like equalization, etc.).</li> <li>N/A</li>		given as long as the average sound pressure of the song is below the basic limit of 85 dB(A).		
Z1.3       The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: <ul> <li>the symbol of Figure Z1 with a minimum height of 5 mm; and</li> <li>the following wording, or similar:</li> <li>To prevent possible hearing damage, do not listen at high volume levels for long periods.</li> </ul> <li>Figure Z1 - Warning label (IEC 60417-6044)         <ul> <li>Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.</li> </ul> </li> <li>Z1.4.1</li> <li>Requirements for listening devices (headphones, earphones, etc.)</li> <li>X/A</li> <		average music level of the song is only 65 dB(A), there is no need to give a warning or ask an		
on the packaging, or in the instruction manual and shall consist of the following:       - the symbol of Figure Z1 with a minimum height of 5 mm; and         - the following wording, or similar:       To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure Z1 - Warning label (IEC 60417-6044)         Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4.1       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices (headphones, earphones, etc.)         N/A       with 94 dB(A) sound pressure output Laeq.T, the input voltage of the fixed "programme sinulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).       N/A         Z1.4.3       Cordless listening devices in any mode where his mode: no etc.)       N/A		acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dB(A).		
shall consist of the following:       - the symbol of Figure Z1 with a minimum height of 5 mm; and         - the following wording, or similar:       To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure Z1 – Warning label (IEC 60417-6044)         Atternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4       Requirements for listening devices (headphones, earphones, etc.)       N/A         Z1.4.1       Corded passive listening devices with analogue input with 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). N/A       N/A         Z1.4.3       Cordless listening devices in any mode where the headphones of 40(A) = 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) = 75 mV. This mode:	Z1.3	The warning shall be placed on the equipment, or		N/A
shall consist of the following:       - the symbol of Figure Z1 with a minimum height of 5 mm; and         - the following wording, or similar:       To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure Z1 – Warning label (IEC 60417-6044)         Atternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4       Requirements for listening devices (headphones, earphones, etc.)       N/A         Z1.4.1       Corded passive listening devices with analogue input with 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). N/A       N/A         Z1.4.3       Cordless listening devices in any mode where the headphones of 40(A) = 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) = 75 mV. This mode:		on the packaging, or in the instruction manual and		
of 5 mm; and - the following wording, or similar: To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure 21 - Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         21.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input With 94 dB(A) sound pressure output Laeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be 275 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) - 75 mV correspond with 85 dB(A) - 27 mV and 100 dB(A) - 150 mV.       N/A         Z1.4.3       Cordless listening devices In wireless mode: - with any playing and transmitting device playing       N/A		shall consist of the following:		
of 5 mm; and - the following wording, or similar: To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure 21 - Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         21.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input With 94 dB(A) sound pressure output Laeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be 275 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) - 75 mV correspond with 85 dB(A) - 27 mV and 100 dB(A) - 150 mV.       N/A         Z1.4.3       Cordless listening devices In wireless mode: - with any playing and transmitting device playing       N/A		- the symbol of Figure Z1 with a minimum height		
To prevent possible hearing damage, do not listen at high volume levels for long periods.         Figure Z1 - Warning label (IEC 60417-6044)         Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOT ROTE The values of 84 dB(A) - 75 mV correspond with 85 dB(A) - 27 mV and 100 dB(A) - 150 mV.       N/A         Z1.4.3       Cordless listening devices in wireless mode: - with any playing and transmitting device playing       N/A		of 5 mm; and		
Iisten at high volume levels for long periods.         Figure Z1 – Warning label (IEC 60417-6044)         Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input         With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 5032-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example bullt-in volume level control, an additional sound feature like equalization, etc.).       N/A         Z1.4.3       Cordless listening devices       N/A		- the following wording, or similar:		
Iisten at high volume levels for long periods.         Figure Z1 – Warning label (IEC 60417-6044)         Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input         With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 5032-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example bullt-in volume level control, an additional sound feature like equalization, etc.).       N/A         Z1.4.3       Cordless listening devices       N/A		To prevent possible hearing damage, do not		
Figure Z1 – Warning label (IEC 60417-6044)         Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.         Z1.4         Requirements for listening devices (headphones, earphones, etc.)         Z1.4         Corded passive listening devices (headphones, earphones, etc.)         Z1.4.1         Corded passive listening devices with analogue input with 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.       N/A         XI.4.3         Cordless listening devices is the any playing and transmitting device playing				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State		r n		
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State		4.9		
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State		ノッシノ		
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State				
Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.       Image: Constant State		Figure Z1 – Warning label (IEC 60417-6044)		
Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input         With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).       N/A         Z1.4.3       Cordless listening devices       N/A				
Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input With 94 dB(A) sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.       N/A         Z1.4.3       Cordless listening devices listening device playing       N/A				
higher level.N/AZ1.4Requirements for listening devices (headphones, earphones, etc.)Z1.4.1Corded passive listening devices with analogue input With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.N/AZ1.4.3Cordless listening devices In wireless mode: – with any playing and transmitting device playingN/A				
Z1.4       Requirements for listening devices (headphones, earphones, etc.)         Z1.4.1       Corded passive listening devices with analogue input         With 94 dB(A) sound pressure output LAeq.T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices listening device playing				
Z1.4.1Corded passive listening devices with analogue input With 94 dB(A) sound pressure output $L_{Aeq,T}$ , the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be $\geq 75$ mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.N/AZ1.4.3Cordless listening devices In wireless mode: - with any playing and transmitting device playingN/A	Z1.4		s, earphones, etc.)	
analogue input With 94 dB(A) sound pressure output $L_{Aeq,T}$ , the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be $\geq 75$ mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.N/AZ1.4.3Cordless listening devices In wireless mode: – with any playing and transmitting device playingN/A			<b>,,,</b>	N/A
With 94 dB(Å) sound pressure output LAeq,T, the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices In with any playing and transmitting device playing				
input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices In wireless mode: – with any playing and transmitting device playing				
noise" described in EN 50332-2 shall be ≥ 75 mV.         This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).         NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices In with any playing and transmitting device playing				
This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).       NOTE The values of 94 dB(A) - 75 mV correspond with 85 dB(A) - 27 mV and 100 dB(A) - 150 mV.         Z1.4.3       Cordless listening devices In write and transmitting device playing       N/A				
Z1.4.3       Cordless listening devices         In wireless mode:       – with any playing and transmitting device playing				
available setting (for example built-in volume level control, an additional sound feature like equalization, etc.).       NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices listening devices mode: – with any playing and transmitting device playing       N/A				
Z1.4.3       Cordless listening devices         In wireless mode:       – with any playing and transmitting device playing				
equalization, etc.).       NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices         In wireless mode:       – with any playing and transmitting device playing				
NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.         Z1.4.3       Cordless listening devices listening devices mode: – with any playing and transmitting device playing				
dB(A) - 27 mV and 100 dB(A) - 150 mV.         Z1.4.3       Cordless listening devices In wireless mode: - with any playing and transmitting device playing		NOTE The values of 94 dB(A) – 75 mV correspond with 85		
In wireless mode: – with any playing and transmitting device playing		dB(A) – 27 mV and 100 dB(A) – 150 mV.		
- with any playing and transmitting device playing	Z1.4.3			N/A
the fixed programme simulation noise described				
		the fixed programme simulation noise described		
in EN 50332-1; and				
<ul> <li>respecting the wireless transmission standards,</li> </ul>				
where an air interface standard exists that				
specifies the equivalent acoustic level; and				
<ul> <li>with volume and sound settings in the listening</li> </ul>				
device (for example built-in volume level control,				
additional sound feature like equalization, etc.)		additional sound feature like equalization, etc.)		
set to the combination of positions that maximize		set to the combination of positions that maximize		
the measured acoustic output for the above-		the measured acoustic output for the above-		
mentioned programme simulation noise, the				
acoustic output <i>L</i> <sub>Aeq,T</sub> of the listening device shall				
be ≤ 100 dB(A).				
Z1.5 Measurement methods N/A	71.5	Measurement methods		N/A



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Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval <i>T</i> shall be 30 s. NOTE Test method for cordless equipment provided without listening device should be defined.	

1.4	1.5 ANNEXES	
Annex B	<b>Replace</b> the text of Note 1 by the following: In the CENELEC countries listed in IEC 62151, special national conditions apply.	N/A
Annex N	After the note in N.1, <b>add</b> the following: For ROUTINE TEST, reference is made to EN 50514:2008.	N/A

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS

1.6 ZB	1.7 ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)	
2.6.1	Denmark         The following is added:         Certain types of Class I apparatus, see 15.1.1,         may be provided with a plug not establishing         earthing continuity when inserted in Danish         socket-outlets         Justification:         Heavy Current Regulations, Section 6c	N/A
3.Z1	Denmark         Add to the end of the subclause         Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification:         In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	N/A
5.4	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: CLASS I apparatus which is intended for connection to the building installation wiring via a plug or an appliance coupler, or both and in addition is intended for connection to other apparatus or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network TERMINALS and ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an earthed MAINS socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord."	N/A



	varustettuun pistorasiaan"		
	In Norway: "Apparatet må tilkoples jordet		
	stikkontakt"		
	In Sweden: "Apparaten skall anslutas till jordat		
	uttag"		No.
5.5.2	Norway and Sweden		N/A
	Add to the end of 5.5.2 (after the compliance		
	statement) the following:		
	The screen of the coaxial cable of the television		
	distribution system is normally not earthed at the		
	entrance of the building and there is normally no		
	equipotential bonding system within the building.		
	Therefore the protective earthing of the building		
	installation need to be isolated from the screen of		
	a coaxial cable based television distribution		
	system.		
	It is however accepted to provide the insulation		
	external to the apparatus by an adapter or an		
	interconnection cable with galvanic isolator, which		
	may be provided by a retailer, for example.		
	The user manual shall then have the following or		
	similar information in Norwegian and Swedish	57 C	
	language respectively, depending on in what	P	
	country the apparatus is intended to be used in:		
	"Apparatus connected to the protective earthing		
	of the building installation through the MAINS		
	connection or through other apparatus with a		
	connection to protective earthing – and to a		
	television distribution system using coaxial cable, may in some circumstances create a fire hazard.		
	Connection to a television distribution system has		
	therefore to be provided through a device		
	providing electrical isolation below a certain		
	frequency range (galvanic isolator, see EN		
	60728-11)"		
	NOTE In Norway, due to regulation for installations of CATV-		
	installations, and in Sweden, a galvanic isolator shall provide		
	electrical insulation below 5 MHz. The insulation shall		
	withstand a dielectric strength of 1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.		
	Translation to Norwegian (the Swedish text will		
	also be accepted in Norway):		
	"Utstyr som er koplet til beskyttelsesjord via		
	nettplugg og/eller via annet jordtilkoplet utstyr –		
	og er tilkoplet et kabel-TV nett, kan forårsake		
	brannfare.		
	For å unngå dette skal det ved tilkopling av		
	utstyret til kabel-TV nettet installeres en galvanisk		
	isolator mellom utstyret og kabel-TV nettet."		
	Translation to Swedish:		
	"Utrustning som är kopplad till skyddsjord via		
	jordat vägguttag och/eller via annan utrustning		
	och samtidigt är kopplad till kabel-TV nät kan i		
	vissa fall medfőra risk főr brand.		
	Főr att undvika detta skall vid anslutning av		
	utrustningen till kabel-TV nät galvanisk isolator		
	finnas mellan utrustningen och kabel-TV nätet."		
13.3.1	Norway		Р



	Add to the second paragraph the following: Due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault. <i>Justification:</i> Based on a use in Norway of an IT power distribution system where the neutral is not	
15.1.1	provided Denmark	N/A
	To the first paragraph the following is added: In Denmark, supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. Appliances of Class I provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug which assure earth continuity with the socket-outlet in accordance with DS 60884-2-D1. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-1. To the second paragraph the following is added: Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-1c. To the third paragraph the following is added: Mains socket-outlets with earthing contact shall be in compliance with DS 60884-2-D1, Standard sheet DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a <i>Justification</i> :	
15.1.1	Heavy Current Regulations, Section 6cIrelandApparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. Justification: SI 525: 1997	N/A
15.1.1	Norway Mains socket-outlets mounted on Class II apparatus shall comply with the specifications given in CEE Publ. 7 as far as applicable, with the following amendments: § 8 Dimensions	N/A



	a) 2,5 A 250 V two-pole socket-outlets for	
	electronic apparatus shall comply with the	
	enclosed Standard Sheet I.	
	STANDARD SHEET I	
	2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC	
	APPLIANCES OF CLASS II	
	27,5 min. R 5 max.	
	15+0,5-0	
	45"	
	43 /	
	39 +1 -1,5	
	Dimensions in mm	
	Other dimensions according to CEE	
	Publication 7 Standard Sheet I	
	"Portable Single-Way Socket-Outlets".	
	§ 24 Mechanical strength	
	a) 2,5 A, 250 V socket-outlets for Class II	
	electronic apparatus are tested as specified in EN	
	60065:2014, 12.1.3. Also the protecting rim shall	
	be tested.	
	Justification:	
	Act of 24 May 1929 relating to supervision of	
	electrical installation (TEA 1929/FEL 1998).	
15.1.1	United Kingdom	
13.1.1		
	Apparatus which is fitted with a flexible cable or	
	cord and is designed to be connected to a mains	
	socket conforming to BS 1363 by means of that	
	flexible cable or cord and plug shall be fitted with	
	a "standard plug" in accordance with Statutory	
	Instrument 1768: 1994: The Plugs and Sockets	
	etc. (Safety) Regulations 1994, unless exempted	
	by those Regulations.	
	NOTE "Standard plug" is defined in SI 1768:1994 and	
	essentially means an approved plug conforming to BS 1363 or	
	an approved conversion plug.	
	Justification:	
	SI 1768: 1994	
Annex B	Finland, Norway and Sweden	I
	All sub clauses given below are sub clauses of	
	IEC 62151 (ref. corrigenda 1 and 2 to IEC 62151).	
	Subclause 4.1.1 (corrigendum 2):	
	Add after the first paragraph:	
	NOTE In Finland, Norway and Sweden, CLASS I equipment which is intended for	
	connection to the building installation via a non-industrial plug or a non-industrial appliance coupler, or both and in addition is intended for connection to other	
	equipment or a network shall, if safety relies on connection to protective earth or if	
	surge suppressors are connected between the network terminals and ACCESSIBLE parts, has a marking stating that the equipment must be connected	
	to an earthed mains socket-outlet.	
	The marking text in the applicable countries shall	
	be as follows:	
	In Finland: " Laite on liitettävä suojakoskettimilla	
	varustettuun pistorasiaan "	
	In Norway: "Apparatet må tilkoples jordet	
	stikkontakt"	
	JUNNUHANI	
	In Swodon: "Annaratan akall analytaa till jardat	
	In Sweden: "Apparaten skall anslutas till jordat uttag"	

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Subclause 4.1.4 (corrigendum 1) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1. Subclause 4.2.1.2 (corrigendum 1) Add at the end of the subclause: NOTE 3 In Norway, for requirements see 5.3.1, note 1. Subclause 4.2.1.3 (corrigendum 2) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1. Subclause 4.2.1.4 (corrigendum 1)	
Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1. Subclause 4.2.1.2 (corrigendum 1) Add at the end of the subclause: NOTE 3 In Norway, for requirements see 5.3.1, note 1. Subclause 4.2.1.3 (corrigendum 2) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
Subclause 4.2.1.2 (corrigendum 1) Add at the end of the subclause: NOTE 3 In Norway, for requirements see 5.3.1, note 1. Subclause 4.2.1.3 (corrigendum 2) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
Add at the end of the subclause: NOTE 3 In Norway, for requirements see 5.3.1, note 1. Subclause 4.2.1.3 (corrigendum 2) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
NOTE 3 In <b>Norway</b> , for requirements see 5.3.1, note 1. <b>Subclause 4.2.1.3 (corrigendum 2)</b> <b>Add</b> at the end of the subclause: NOTE In <b>Norway</b> , for requirements see 4.1.1, note and 5.3.1, note 1.	
Subclause 4.2.1.3 (corrigendum 2) Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
Add at the end of the subclause: NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
Subclause 4.2.1.4 (corrigendum 1)	
Number the existing note as NOTE 1 and add at	
the end of the subclause the	
following NOTE 2: NOTE 2 In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.	
Subclause 5.3.1 (corrigendum 1)	
Add after the first test specifications paragraph:	
NOTE 1 In Finland, Norway and Sweden, there are additional requirements for	
the insulation.	
Renumber the existing note as NOTE 2.	
For additional requirements for the insulation in Finland, Norway and Sweden in NOTE 1 the	
following text is added between the first and the second paragraph (this text is identical to the	
corresponding EN 60950-1:2001):	
NOTE 1 In Finland, Norway and Sweden, if this insulation is solid, including	
insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or	
one layer having a distance through insulation of at least 0,4 mm, which shall	
pass the electric strength test below If this insulation forms part of a semiconductor component (e.g. an optocoupler),	
there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and	
CREEPAGE DISTANCES do not exist, if the component passes the electric	
strength test in the accordance with the compliance clause below and in addition: • passes the test and inspection criteria of 13.6 with an electric strength test of 10.3	
using the test voltage of 1,5 kV multiplied by 1,6, and • is subject to routine testing for electric strength during manufacturing, using a test	
voltage of 1,5 kV (for performance of the test see N.2.1).	
It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.	
A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions:	
the insulation requirements are satisfied by having a capacitor classified Y3 as	
defined by EN 132400, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in IEC 62151:2000, 6.2.1;	
the additional testing shall be performed on all the test specimens as described in EN 132400;	
<ul> <li>the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 in the sequence of tests as described in EN 132400.</li> </ul>	
Subclause 5.3.2 (corrigendum 1)	
Add after the fourth dash:	
NOTE In Finland, Norway and Sweden, exclusions are applicable for equipment	
which is intended for connection to the building installation wiring using screw terminals or other reliable means, and for equipment which is intended for	
connection to the building installation wiring via an industrial plug and socket -outlet or an appliance coupler, or both, complying with EN 60309 or with a comparable	
national standard.	
2 Norway P	
After Table J.1 the following is added:	
Due to the IT power distribution system used, the	
a.c. MAINS supply voltage is considered to be	
equal to the line-to-line voltage, and will remain	
230 V in case of a single earth fault.	
Justification:	
Based on a use in Norway of an IT power	
distribution system where the neutral is not	
provided	

1.8 ZC	1.9 ANNEX ZC, NATIONAL DEVIATIONS (EN)	
5.1	Italy	N/A



	The following requirements shall be fulfilled: - The power consumption in Watts (W) shall be indicated on TV receivers and in their instruction for use (Measurement according to IEC 60107-1) NOTE EN 60555-2 has since been replaced by IEC 60107- 1:1997. - TV receivers shall be provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language. - Marking for controls and terminals shall be in Italian language. Abbreviation and international symbols are allowed provided that they are explained in the instruction for use. - The ECC manufacturers are bound to issue a conformity declaration according to the above requirements in the instruction manual. The correct statement for conformity to be written in the instruction manual, shall be: Questo apparecchio è fabbricato nella CEE nel rispetto delle disposizioni del D.M. marzo 1992 ed è in particolare conforme alle prescrizioni dell'art. 1 dello stesso D.M. - The first importers of TV receivers manufactured outside EEC are bound to submit the TV receivers for previous conformity certification to the Italian Post Ministry (PP.TT). The TV receivers shall have on the backcover the certification number in the following form: D.M. 26/03/1992 xxxxx/xxxx/S or T or pT S for stereo T for teletext pT for retrofitable teletext Justification: Ministerial Decree of 26 March 1992: National rules for television receivers trade. NOTE The ministerial decree above contains additional, but not safety relevant requirements.	
6.1	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. <i>Justification</i> : German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the Council Directive 96/29/Euratom in Germany. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D- 38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet:	N/A
14.1	http://www.ptb.de Sweden The following requirements shall be fulfilled: Switches containing mercury such as thermostats, relays and level controllers are not allowed.	N/A



#### Test Tables

7.1	TABLE: Temperature rise measurement						Р					
	Power consumption in the OFF/Stand-by:											
	Position of	of the function	nal switch	(W)·····	:							
Operating of	conditons											
Un (V)	Hz	In (A)	Pn (W)	) Uout	t (V)	Pou	t (W)	Oper	rating Co	ndition/	Status	
5		0.297	1.49		_	-		Norm	nal workir	ng		
		I		•	(					$\square$		
	Loudspea	aker impedan	ce (Ω)·····		:							
	Several lo	oudspeaker s	ystems		:							
	Marking o	of loudspeake	er terminal	s	:							
Monitored p	point:					ď	Г (К)			Limit	max. dT (K)	
Test condition			5Vd.c.									
PCB near I	C2				28.2		95					
DC input te	rminal				10.9			60				
Enclosure i	nside					1	2.3				40	
Enclosure of	outside						8.6				40	
Ambient	6					<b>35</b> ℃						
Comments: For compor		emperature n	narking, al	llowed Tma	ax = Tr	nax- T	ma (Tr	na = 3	35 °C)			
	Winding	temperature	rise meas	urements								
	Ambient temperature t1 (°C) ·······				:							
Ambient temperature t2 (°C)·······				:								
Temperature rise dT of winding: $dT = \frac{(R_2 - R_1)}{R_1} \times (234.5 + t1) - (t2 - t1) \qquad R_1$			R <sub>1</sub> (Ω)	R <sub>2</sub>	(Ω)	dT	(K)	Limit ma	ax. (K)	Insulation class		
					-	-		-				
Note: Acco ambient ter	-	e user manua s 35℃.	I, the app	liance is in	tendeo	d to be	used	in moo	derate cli	mate, s	o the basic	

7.2	TABLE: Softening temperature of thermoplastics						
Temperatur	e T of part	T – normal conditions (°C)	T – fault conditions (°C)	Min. T softening (°C)			
Note:							

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Test Tables

10.4	TABLE: Insulation resistance measurements		N/A			
Insulation re	sistance R between	R (MΩ)	Required R (MΩ)			
			_			
Note:						
1) BI: Basic insulation; SI: Supplementary insulation; DI: Double insulation; RI: Reinforced insulation						

10.3	TABLE: Electric strength measurements		Р
Test voltage	applied between	Test voltage (V)	Breakdown
Input and enclosure		DC 500	No
Input and output terminals DC 500 No			
Note: 1) BI: Basi	ic insulation; SI: Supplementary insulation; DI: Dout	ble insulation; RI: Reinf	orced insulation

1) BI: Basic insulation; SI: Supplementary insulation; DI: Double insulation; RI: Reinforced insulation

11	٦	TABLE	: Fault Con	ditions		Р
No.	Component Fault dT (K) / Component		Test conditions, test duration, test	result		
4.	C13		SC		After SC, unit shut down immediately. No damaged, no hazard.	
5.	R2		SC		After SC, unit shut down immediately. No damaged, no hazard.	
Supp	lementar	y infori	mation:			

1) SC: short circuit

13.3/13.4	TABLE: Clearances and creepage distances						
		Operating Voltage [V]		Clearance [mm]		Creepage [mm]	
Location		Urms [V]	Upeak [V]	Minimum	Actual	Minimum	Actual
Test conditi	ons: - Pollution degree:	II					
	- Material group:	IIIb					
Note: (RI) ≡	<ul> <li>Main transient vo Reinforced insulation,</li> </ul>	•		ulation, (BI) ≡	Basic insu	lation	

14	TABLE: List of critical components					Р	
Object/par No.	t	Manufacturer/tradem ark	Type/model	Technical data	Standard		lark(s) of onformity <sup>1)</sup>

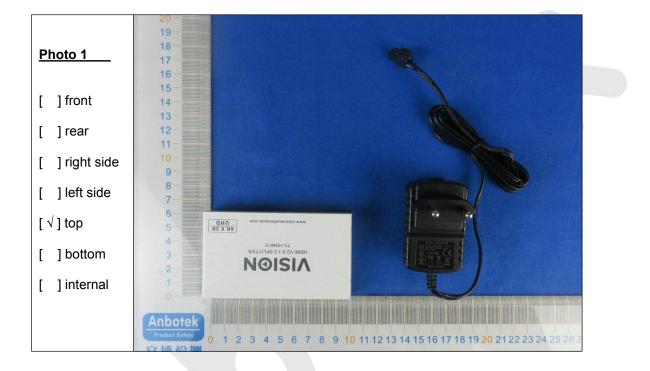
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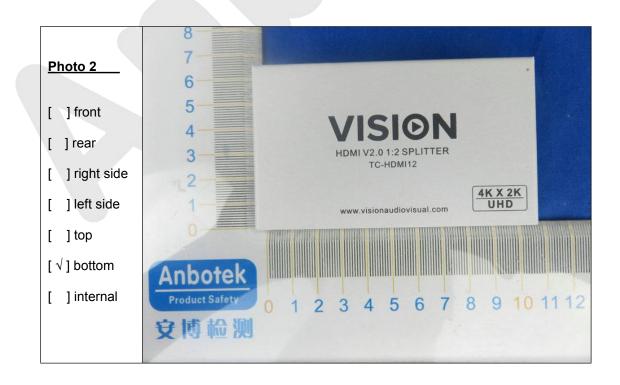


#### Test Tables

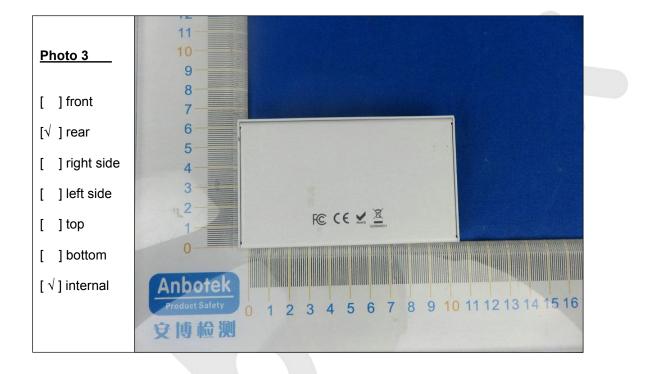
14	TABLE: List of critical components					
Object/par No.	t Manufacturer/tradem ark	Type/model	Technical data	Standard		ark(s) of nformity <sup>1)</sup>
РСВ	Interchangeable	Interchangea ble	<b>V-0, 130</b> ℃	UL 94 UL 746	UL	
Adapter	Shenzheng Mingxin Power Technologies Co.,Ltd.	MX15Z- 0502000VX	Input: 100- 240V 50/60Hz, 0.4A Output: 5Vd.c., 2A	IEC/EN 60950- 1	CE	

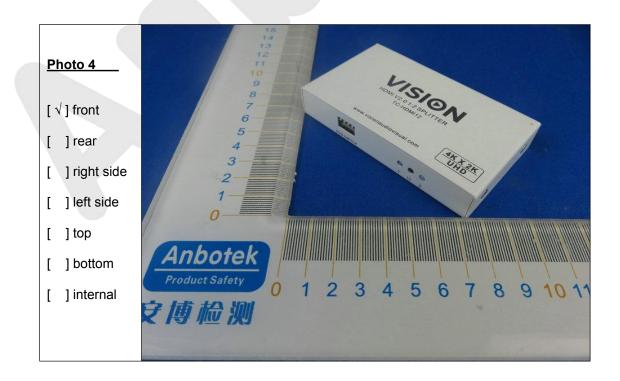




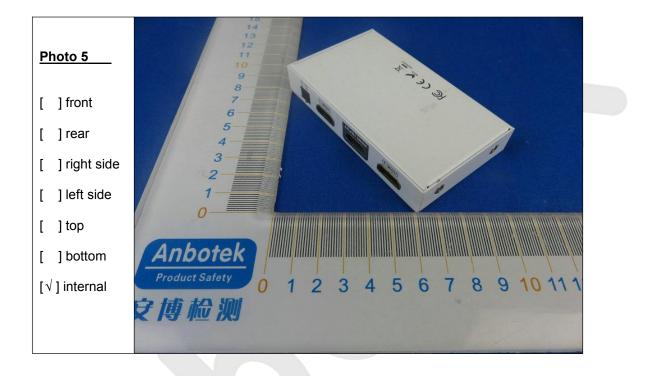


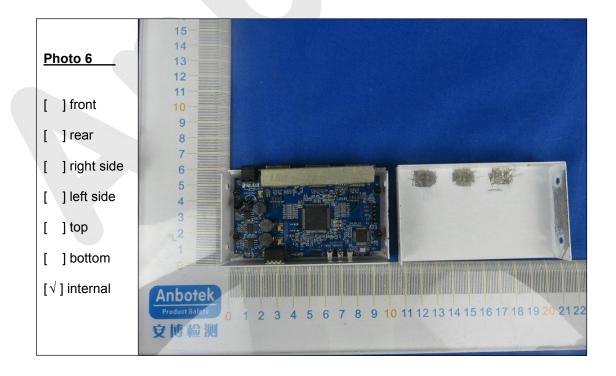




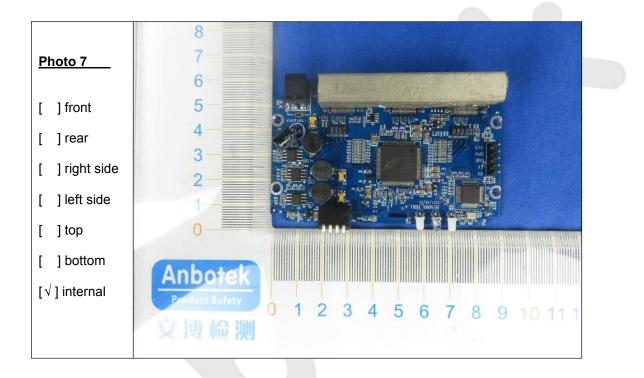














\*\*\*End of the report\*\*\*