

TEST REPORT

On Behalf of

Azlan Logistics Limited

TECHCONNECT TC-HDMIIP

Model:TC-HDMIIP

Prepared For : Azlan Logistics Limited
Redwood 2, Chineham Business Park, Crockford Lane,
Basingstoke, Hampshire, RG24 8WQ, United Kingdom

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited
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Date of Test: May 15, 2017 to May 22, 2017

Date of Report: May 22, 2017

Report Number: R0317050113S

TEST REPORT

IEC 60065

Audio, video and similar electronic apparatus – Safety requirements

Report

Report reference No.: R0317050113S
Tested by (+ signature): Damon Yan
Approved by (+ signature): Jason Xia
Date of issue.....: May 22, 2017
Contents: 29 pages



Damon Yan

Jason Xia

Testing laboratory

Name: Shenzhen Anbotek Compliance Laboratory Limited
Address.....: 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

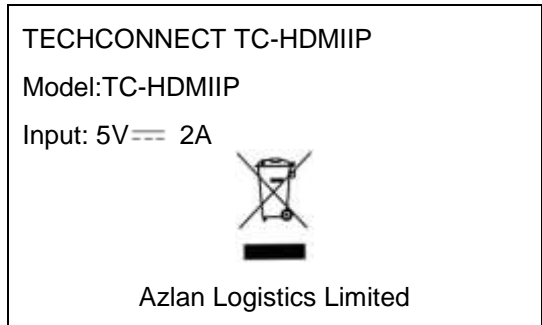
Standard: IEC 60065: 2014
Test procedure: Compliance with
IEC 60065: 2014
Non-standard test method: N.A.

Test item

Description.....: TECHCONNECT TC-HDMIIP
Trademark: VISION
Model/type reference.....: TC-HDMIIP
Manufacturer: Azlan Logistics Limited
Address.....: Redwood 2, Chineham Business Park, Crockford Lane,
Basingstoke, Hampshire, RG24 8WQ, United Kingdom
Factory: Azlan Logistics Limited
Address: Redwood 2, Chineham Business Park, Crockford Lane,
Basingstoke, Hampshire, RG24 8WQ, United Kingdom
Rating: Input: 5V==2A

Particulars: test item vs. test requirements	
Equipment mobility	Portable apparatus
Operating condition.....	Continuous operation
Tested for IT power systems.....	N.A.
IT testing, phase-phase voltage (V)	N.A.
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	P (Pass)
-test object does not meet the requirement	F (Fail)
Testing	
Date of receipt of test item.....	May 15, 2017
Data of performance of test	May 15, 2017 to May 22, 2017
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. The maximum operating temperature is 35°C.	

Copy of marking plate(s)



IEC 60065			
Clause	Requirement – Test	Result - Remark	Verdict
3	GENERAL REQUIREMENTS		
	Safety class of the apparatus	Neither class I equipment nor class II equipment	P
4	GENERAL TEST CONDITIONS		
4.1.4	Ventilation instructions require the use of the test box	Tested according to user manual	N/A
5	MARKING AND INSTRUCTIONS		
5.1	General requirements		P
	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	P
	b) Model number or type reference	TC-HDMIIP	P
	c) Class II symbol or Class II with functional earth symbol if applicable	Not class II equipment	N/A
	d) Nature of supply	⎓ for dc	P
	e) Rated supply voltage	5V	P
	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	2A	P
	Measured current or power consumption	(see appended table 7.1)	P
	Deviation % (max 10%)	<10%	P
	h) Rated current or power consumption for apparatus 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		N/A
	Deviation % (max 10%)		N/A
	Symbols explained in the user manual		P
5.3	Terminals		P
	a) Earth terminal		N/A
	b) Hazardous live terminals		N/A
	c) Markings on supply output terminals	See marking plate for details	P

IEC 60065			
Clause	Requirement – Test	Result - Remark	Verdict
5.4	Caution marking		P
	a) Use of triangle with exclamation mark		P
	b) Marking on loudspeaker grille, IEC 60417-5036		N/A
	c) User-replaceable coin / button cell battery marking		N/A
5.5	Instructions		P
5.5.1	Safety relevant information	English	P
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		P
	f) Special stability warning for attachment of the apparatus to the floor/wall		N/A
	g) Warning: battery exposure to heat	Mentioned in user manual	P
	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 emitting diodes (LEDs) according to IEC 62471		N/A
7	HEATING UNDER NORMAL OPERATING CONDITIONS		
7.1	General		P

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)	P
7.1.2	Temperature rise of accessible parts	(see appended table 7.1)	P
7.1.3	Temperature rise of parts providing electrical insulation	(see appended table 7.1)	P
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	(see appended table 7.1)	P
7.1.5	Temperature rise of windings	(see appended table 7.1)	P
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4	(see appended table 7.1)	P
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 REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK		
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

IEC 60065			
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		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

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/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
	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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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 (MΩ) at least 2 MΩ min. after surge test for basic and 4 MΩ min. for reinforced insulation		N/A
10.3	Humidity treatment 48 h or 120 h		P
10.4	Insulation resistance and dielectric strength		P
	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)	P
	Between parts separated by REINFORCED insulation	(see appended table 10.3)	N/A
11	FAULT CONDITIONS		
11.1	No shock hazard under fault condition		P
11.2	Heating		P
11.2.1	Requirements		P
	No danger of fire to the surroundings		P
	Safety not impaired by abnormal heat		P
	Flames extinguish within 10 seconds		N/A
	No hazard from softening solder		N/A
	Soldered terminations not used as protective mechanism		P
11.2.2	Measurement of temperature rises	(see appended table 11.2)	P
11.2.3	Temperature rise of accessible parts	(see appended table 11.2)	P

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		P
11.2.6	Temperature rise of windings	(see appended table 11.2)	N/A
11.2.7	Printed boards		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	(see appended table 11.2)	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		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		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)	P

12	MECHANICAL STRENGTH		
12.1	Complete apparatus		P
12.1.1	The apparatus have adequate mechanical strength		P
12.1.2	Bump test where mass >7 kg	<7Kg	N/A
12.1.3	Vibration test	2J	P
12.1.4	Impact hammer test	1000mm,3 times	P
	Steel ball test		P
12.1.5	Drop test for portable apparatus where mass ≤ 7 kg		P
12.1.6	Thermoplastic enclosures stress relief test		N/A
12.2	Fixing of knobs, push buttons, keys and levers		P
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

IEC 60065			
Clause	Requirement – Test	Result - Remark	Verdict
12.6.2	Physical securement, removal prevented		N/A
12.7	Apparatus containing coin / button cell batteries		N/A
12.7.2	Reduced possibility for children to remove battery		N/A
12.7.3	Tests		N/A
12.7.3.2	Stress relief test		N/A
12.7.3.3	Battery replacement test		N/A
12.7.3.4	Drop test		N/A
12.7.3.5	Impact test		N/A
12.7.4	Battery not accessible; or not removable		N/A

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	Certified PCB used	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

IEC 60065			
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		N/A
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 ³ , 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 ³ , 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

IEC 60065			
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		N/A
14.4.6	Insulation between hazardous live parts and accessible 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 > 4kV 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

IEC 60065			
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 ≤ 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

IEC 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	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
	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

IEC 60065			
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 Ω at 25 A		N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		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

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

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.....:		N/A
	Table 20 torque test non-metallic thread, 10 times....:		N/A
17.2	Correct introduction into female threads in non-metallic material		N/A
17.3	Cover fixing screws captive or no hazard when replaced by a screw whose length is 10 times its diameter		N/A
17.4	No loosening of conductive parts carrying a current > 0,2 A		N/A
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		N/A

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		
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)		N/A
19.2	Test at 10° to the horizontal		N/A
19.3	Vertical force test 100 N applied downwards		N/A

IEC 60065			
Clause	Requirement – Test	Result - Remark	Verdict
19.4	Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability		N/A
19.5	Edges or corners not hazardous		P
19.6	Mechanical strength of glass		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		N/A
19.6.2	Fragmentation test		N/A
19.7	Wall or ceiling mounting means		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		N/A

20	RESISTANCE TO FIRE		
20.1	Start and spread of fire is prevented		P
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		P
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		P
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 V-1 or better 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 V-1 or better material	P
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 TELECOMMUNICATION 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	

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 conditions		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

Test Tables

7.1	TABLE: Temperature rise measurement						P
	Power consumption in the OFF/Stand-by..... :					--	--
	Position of the functional switch (W)					--	--
Operating conditons							
Un (V)	Hz	In (A)	Pn (W)	Uout (V)	Pout (W)	Operating Condition/Status	
5Vdc	--	0.69	3.45	--	--	Normal operation and charger an empty battery	
	Loudspeaker impedance (Ω)..... :					--	
	Several loudspeaker systems..... :					--	
	Marking of loudspeaker terminals..... :					--	
Monitored point:				dT (K)		Limit max. dT (K)	
Test condition				5Vdc		--	
PCB near U2				15.2		95	
E-cap. C220				9.6		Ref.	
Enclosure inside				4.7		Ref.	
Enclosure outside				4.3		40	
Ambient				35°C		--	
Comments:							
For components with temperature marking, allowed Tmax = Tmax- Tma (Tma = 35 ° C)							
	Winding temperature rise measurements						--
	Ambient temperature t1 (°C)					--	--
	Ambient temperature t2 (°C)..... :					--	--
Temperature rise dT of winding: $dT = \frac{(R_2 - R_1)}{R_1} \times (234.5 + t_1) - (t_2 - t_1)$			R ₁ (Ω)	R ₂ (Ω)	dT (K)	Limit max. (K)	Insulation class
--			--	--	--	--	--
Note: According to the user manual, the appliance is intended to be used in moderate climate, so the basic ambient temperature is 35°C.							

7.2	TABLE: Softening temperature of thermoplastics			N/A
Temperature T of part	T – normal conditions (°C)	T – fault conditions (°C)	Min. T softening (°C)	

Test Tables

--	--	--	--
Note:			

10.4	TABLE: Insulation resistance measurements	N/A
Insulation resistance 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	N/A
Test voltage applied between		Test voltage (V) Breakdown
--		-- --
Note: 1) BI: Basic insulation; SI: Supplementary insulation; DI: Double insulation; RI: Reinforced insulation		

11	TABLE: Fault Conditions			P
No.	Component	Fault	dT (K) / Component	Test conditions, test duration, test result
1.	U2 in VCC to pin GND	S-C	--	After SC, unit shut down immediately. No damaged, no hazard.
Supplementary information:				

13.3/13.4	TABLE: Clearances and creepage distances				N/A		
		Operating Voltage [V]		Clearance [mm]		Creepage [mm]	
Location		Urms [V]	Upeak [V]	Minimum	Actual	Minimum	Actual
--		--	--	--	--	--	--
--		--	--	--	--	--	--
Test conditions: - Pollution degree: II - Material group: IIIb - Main transient voltage: 2,50KV							
Note: (RI) ≡ Reinforced insulation, (SI) ≡ Supplementary insulation, (BI) ≡ Basic insulation							

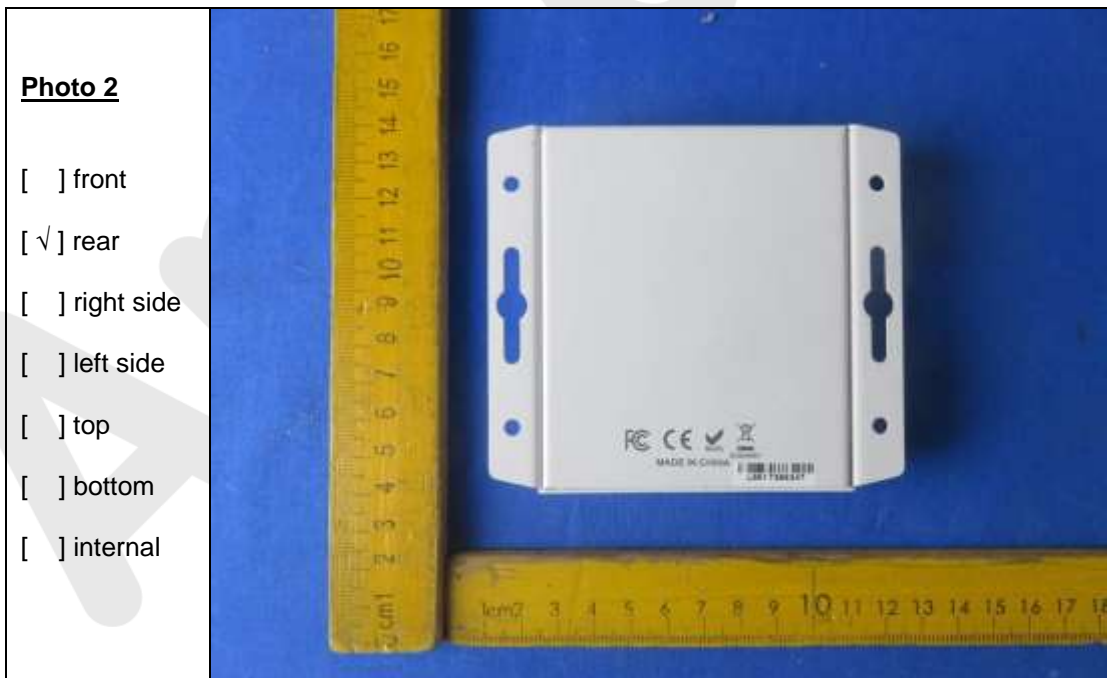
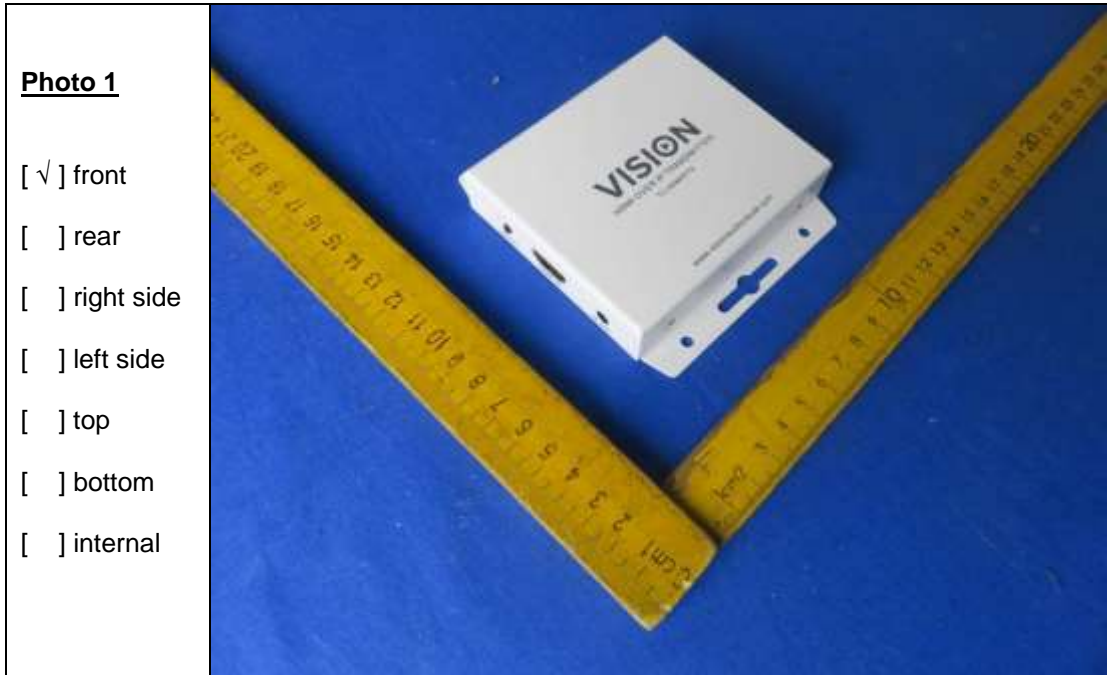
14	TABLE: List of critical components					P
Object/part No.	Manufacturer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹⁾	

Test Tables

14	TABLE: List of critical components					P
Object/part No.	Manufacturer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity ¹⁾	
Adapter	Shenzhen Fujia Appliance Co., Ltd.	FJ-SW1260502000DN	Input: 100-240V~50/60Hz, 0.4A Max. Output: 5Vd.c., 2000mA	AS/NZS 60065	RCM	
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL	
Note:						

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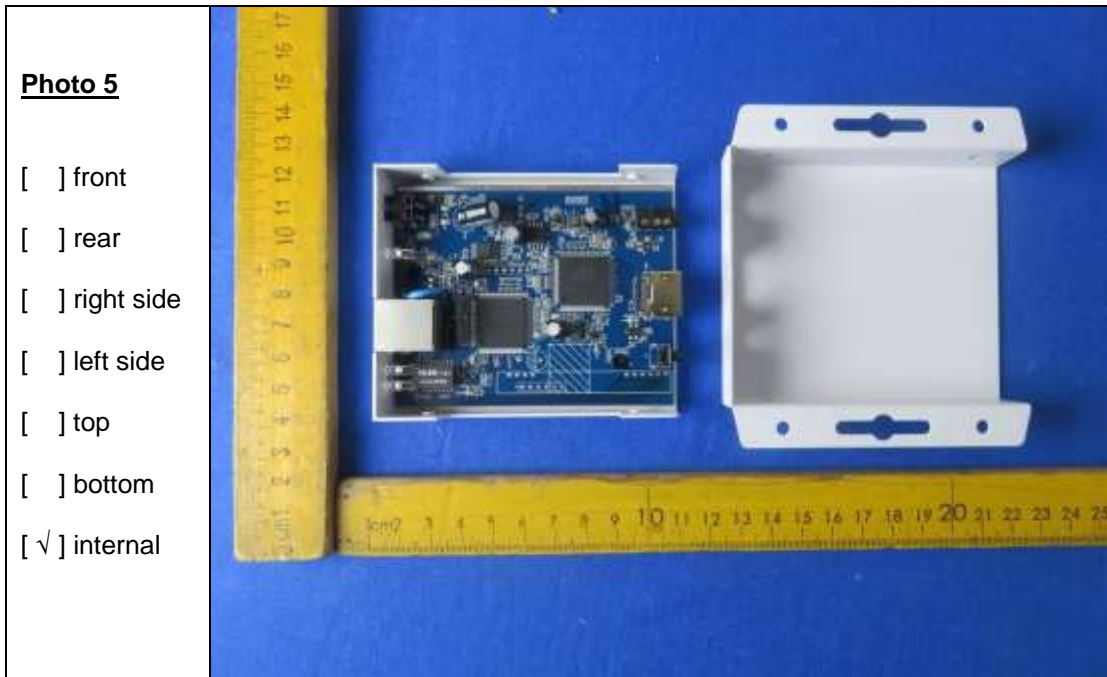
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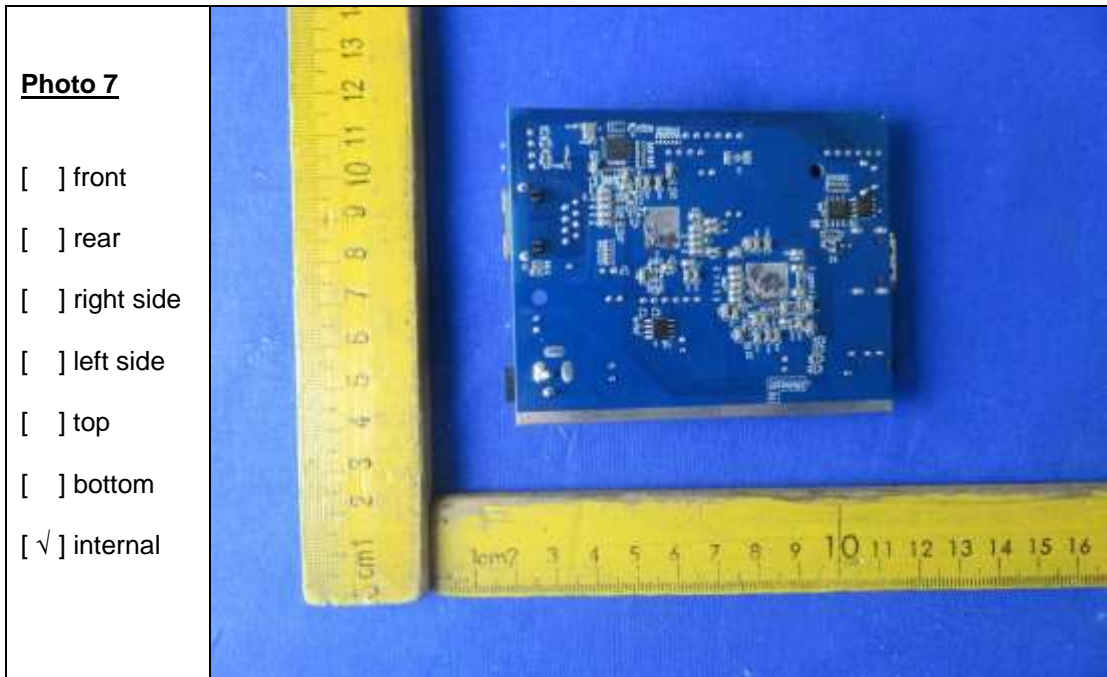
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End of the report