



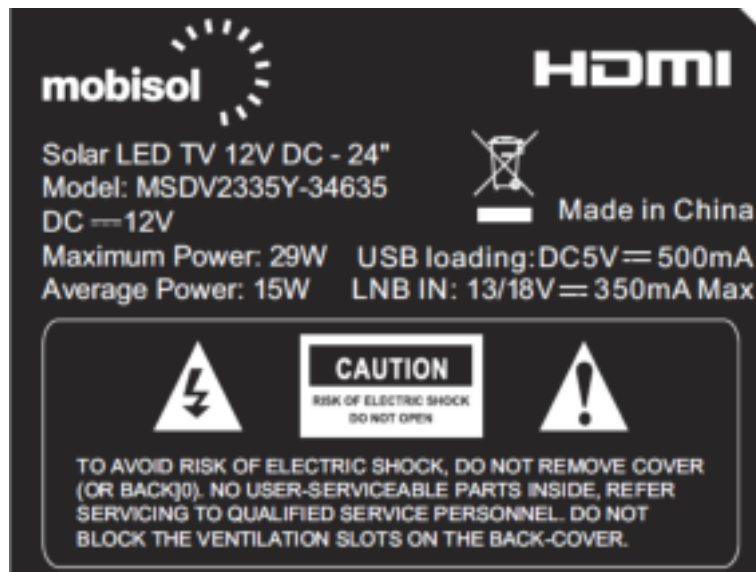
TEST REPORT IEC 60065 Audio, video and similar electronic apparatus – Safety requirements	
Report Number: SZES161100436301 Date of issue: 2016-11-23 Total number of pages: 29 Pages	
Name of Testing Laboratory preparing the Report:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
Applicant's name:	Shen Zhen MTC Co., Ltd.
Address:	MTC Industry Park, 1 st Lilang Road, Xialilang Community, Nanwan Street, Longgang, Shenzhen, Guangdong, China
Test specification:	
Standard:	IEC 60065: 2014 (Eight Edition)
Test procedure:	SGS-CSTC
Non-standard test method:	N/A
Test Report Form No:	IEC60065L
Test Report Form(s) Originator:	Intertek Semko AB
Master TRF:	Dated 2014-08
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Test item description:	LED TV (Product name: Solar LED TV 12V DC – 24")	
Trade Mark:	(for all models), (for model MSDV2335Y-34635)	
Manufacturer	Same as applicant	
Model/Type reference:	MSDV2335Y-34635, MSDV23**Y-34635 (* can be alphabet from A to Z or digit from 0 to 9)	
Ratings:	12 V ; 29 W	
Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):		
<input checked="" type="checkbox"/> CB Testing Laboratory:	SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch	
Testing location/ address	No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China 518057	
<input type="checkbox"/> Associated CB Testing Laboratory:		
Testing location/ address		
Tested by (name, function, signature) :	Peter He	
Approved by (name, function, signature) .. :	Jerry Xiao	
Testing procedure: TMP/CTF Stage 1:		
<input type="checkbox"/> Testing procedure: TMP/CTF Stage 1:	N/A	
Testing location/ address		
Tested by (name, function, signature) :		
Approved by (name, function, signature) .. :		
Testing procedure: WMT/CTF Stage 2:		
<input type="checkbox"/> Testing procedure: WMT/CTF Stage 2:	N/A	
Testing location/ address		
Tested by (name + signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
Testing procedure: SMT/CTF Stage 3 or 4:		
<input type="checkbox"/> Testing procedure: SMT/CTF Stage 3 or 4:	N/A	
Testing location/ address		
Tested by (name, function, signature) :		
Witnessed by (name, function, signature) . :		
Approved by (name, function, signature) .. :		
Supervised by (name, function, signature) :		

<p>List of Attachments (including a total number of pages in each attachment): Attachment 1: 6 pages of Photos.</p>	
<p>Summary of testing: The sample(s) tested complies with the requirements of IEC 60065:2014 When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>All test data in this report was copied from test report: SZES160800329301, dated 2016-10-10 with following changes:</p> <ul style="list-style-type: none"> - Changed the LCD panel size from 32" to 24"; - Changed model number to MSDV2335Y-34635, MSDV23**Y-34635 (* can be alphabet from A to Z or digit from 0 to 9) which are identical to MSDV3235Y-34635 in circuitry and electrical, mechanical and physical construction except the LCD panel size model number for trading purpose; - Changed rated input power from 40 W to 29 W. <p>For above change, clause 5.1, 5.2, 7.1 and 19.7 were reconsidered on sample with model number MSDV2335Y-34635.</p> <p>Tropical condition (Ta = 45 °C) has been considered and complied. External loading of USB port: 5,08 Vd.c./500 mA; LNB in: 18,18 Vd.c./350mA Operation mode under test: Unless otherwise specified, all tests were carried out with 1 kHz sine wave signal and three vertical bar products three equidistant vertical white bars on a black background.</p>	
<p>Tests performed (name of test and test clause):</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 5. Marking <input type="checkbox"/> 6. Hazardous radiations <input checked="" type="checkbox"/> 7. Heating under normal operating condition <input type="checkbox"/> 8. Constructional requirements with regard to the protection against electric shock <input type="checkbox"/> 9. Electric shock hazard under normal operating conditions <input type="checkbox"/> 10. Insulation requirements <input checked="" type="checkbox"/> 11. Fault conditions <input type="checkbox"/> 12. Mechanical strength <input type="checkbox"/> 13. Clearances and creepage distances <input checked="" type="checkbox"/> 14. Components <input type="checkbox"/> 15. Terminal <input type="checkbox"/> 16. External flexible cords <input type="checkbox"/> 17. Electrical connections and mechanical fixings <input type="checkbox"/> 18. Mechanical strength of picture tubes and protection against the effects of implosion <input checked="" type="checkbox"/> 19. Stability and mechanical hazards <input type="checkbox"/> 20. Resistance to fire 	<p>Testing location: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch</p> <p>No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China 518057</p>
<p>Summary of compliance with National Differences: List of countries addressed: --</p>	

Copy of marking plate:

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

**Note:**

- The above markings are the minimum requirements required by the safety standard. For the final production, the additional markings which do not give rise to misunderstanding may be added.
- The model no. and trade mark can be replaced by others which listed in this report.

Test item particulars	
Classification of installation and use	: Desk-top type
Supply Connection	: DC connector
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	: 2016-11-05
Date (s) of performance of tests	: 2016-11-07 to 2016-11-08
General remarks:	
<p>"(see Enclosure #)" refers to additional information appended to the report. "(see appended table)" refers to a table appended to the report.</p> <p>Throughout this report a <input checked="" type="checkbox"/> comma / <input type="checkbox"/> point is used as the decimal separator.</p> <p>This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.</p>	
Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60065:	
The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not applicable
When differences exist; they shall be identified in the General product information section.	
Name and address of factory (ies) : Same as applicant	

General product information:

Product name	LED TV
Functions	TV, PC, HDMI, USB, YPbPr, SCART, AV IN, LNB
Power source	External DC Power supply
Material of enclosure	Plastic enclosure with little metal enclosure cover signal board
Speakers	4 Ω X 2, internal
Other features	Indoor use only
Package	Remote control powered by two AAA size batteries
Model difference	All models are identical, except for model No., trade mark, colour of enclosure and decoration of enclosure.

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
3	GENERAL REQUIREMENTS		--
	Safety class of the apparatus	Powered by external power source	N/A
4	GENERAL TEST CONDITIONS		--
4.1.4	Ventilation instructions require the use of the test box	Yes	P
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	See page 2	P
	b) Model number or type reference.....	See page 2	P
	c) Class II symbol or Class II with functional earth symbol if applicable		N/A
	d) Nature of supply	See marking plate	P
	e) Rated supply voltage	See marking plate	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.....	29 W	P
	Measured current or power consumption	27,0 W	P
	Deviation % (max 10%)	-6,9 %	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		N/A
5.3	Terminals		P
	a) Earth terminal		N/A
	b) Hazardous live terminals		N/A
	c) Markings on supply output terminals	USB, LNB terminals	P
5.4	Caution marking		N/A
	a) Use of triangle with exclamation mark		N/A
	b) Marking on loudspeaker grille, IEC 60417-5036		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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.		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		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)		N/A
	Ionizing radiation under fault condition		N/A
6.2	Laser radiation, emission limits to IEC 60825-1:2007 :		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
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	(see appended table)	P
7.1.2	Temperature rise of accessible parts	(see appended table)	P
7.1.3	Temperature rise of parts providing electrical insulation		N/A
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
7.1.5	Temperature rise of windings		N/A
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4	(see appended table)	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.		N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material		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		N/A
8.5	Class I apparatus		N/A
	Basic insulation between hazardous live parts and earthed accessible parts		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		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
	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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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
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		N/A
	Mains switch ON indication		N/A
8.19	Switch not fitted in the mains cord		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
8.20	Bridging components comply with clause 14		N/A
8.21	Non-separable thin sheet 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
9.1.6	Withdrawal of the mains plug		N/A
	No shock hazard due to stored charge after 2 s		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		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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		N/A
10.4	Insulation resistance and dielectric strength		N/A
	Between parts of different polarity directly connected to the mains		N/A
	Between parts separated by BASIC or SUPPLEMENTARY insulation		N/A
	Between parts separated by REINFORCED insulation		N/A

11	FAULT CONDITIONS		--
11.1	No shock hazard under fault condition		N/A
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	No Flame	P
	No hazard from softening solder		N/A
	Soldered terminations not used as protective mechanism		N/A
11.2.2	Measurement of temperature rises	(see appended table)	P
11.2.3	Temperature rise of accessible parts	(see appended table)	P
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation		N/A
11.2.5	Temperature rise of parts acting as a support or mechanical barrier		N/A
11.2.6	Temperature rise of windings		N/A
11.2.7	Printed boards		N/A
	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		N/A
	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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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)	P

12	MECHNICAL STRENGTH		--
12.1	Complete apparatus		N/A
12.1.1	The apparatus have adequate mechanical strength	Mass = 2,95 kg	N/A
12.1.2	Bump test where mass >7 kg		N/A
12.1.3	Vibration test		N/A
12.1.4	Impact hammer test		N/A
	Steel ball test		N/A
12.1.4	Drop test for portable apparatus where mass ≤ 7 kg		N/A
12.1.5	Thermoplastic enclosures stress relief test		N/A
12.2	Fixing of knobs, push buttons, keys and levers		N/A
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
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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
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		N/A
14.3.3	X capacitors tested to IEC 60384-14:2005		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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
	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
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	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		P
14.11.1	Comply with IEC 62133 if applicable		N/A
	Batteries mounted with no risk of accumulation of flammable gases	For two AAA size batteries in remote control	P
14.11.2	No possibility of recharging user replaceable non-rechargeable batteries		P
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		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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard		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		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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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
	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		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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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)	Mass = 2,95 kg	N/A
19.2	Test at 10° to the horizontal		N/A
19.3	Vertical force test 100 N applied downwards		N/A
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		P
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	Test 2 118N	P

20	RESISTANCE TO FIRE		--
20.1	Start and spread of fire is prevented		N/A
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		N/A
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		N/A
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2		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		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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.		N/A
20.2.5	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21		N/A
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A
	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure		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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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	--
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

IEC 60065							
Clause	Requirement + Test				Result - Remark	Verdict	
7.1	TABLE: Heating Test						P
	Ambient (°C) :				22,2 – 22,4	—	
	Loudspeaker impedance (Ω)				4 Ω X 2	—	
Cond.	U _n (Vd.c.)	Hz	I _n (A)	P _n (W)	U _{out} (V)	P _{out} (W)	Operating Condition / Status
1	13,2	--	2,03	26,8	USB: 5,08 Vd.c. / 0,5 A , LNB: 18,18V.d.c /0,35A, Speaker: R = L = 1,1 VAC	9,51	Audio: 1/8 of max. non-clipped output power with 1 kHz sine wave signal input; Video: The three vertical bar signal products three equidistant vertical white bars on a black background.
2	12,0	--	2,03	26,8	USB: 5,08 Vd.c. / 0,5 A , LNB: 18,18V.d.c /0,35A, Speaker: R = L = 1,1 VAC	9,51	Audio: 1/8 of max. non-clipped output power with 1 kHz sine wave signal input; Video: The three vertical bar signal products three equidistant vertical white bars on a black background. (Under rated input voltage)
Test condition No.				No.1	No. —	No. —	—
Thermocouple Locations				dT (K)	dT (K)	dT (K)	dT (K) limit
Power input wire				11,7	—	—	50
Surface of pluggable connector (CN806)				15,6	—	—	Ref.
Surface of E-cap (PEC1)				18,3	—	—	60
Surface of E-cap (XEC1)				21,5	—	—	60
Surface of E-cap (XEC2)				25,9	—	—	60
PWB (near XQ1)				22,9	—	—	75
PWB (near XQ3)				28,3	—	—	75
PWB (near XD1)				36,4	—	—	75
PWB (near PD14)				41,1	—	—	75
PWB (near PQ6)				57,4	—	—	75
PWB (near PU2)				37,4	—	—	75
PWB (near U4)				45,3	—	—	75
PWB (near UD8)				27,7	—	—	75
PWB (near UD7)				13,4	—	—	75
PWB (near U107)				19,5	—	—	75
PWB (near UD3)				30,2	—	—	75
Enclosure inside (near main board)				23,8	—	—	Ref.
Non-metallic enclosure surface (Top)				15,9	—	—	50

IEC 60065				
Clause	Requirement + Test	Result - Remark		Verdict
Non-metallic enclosure surface (Rear)	6,9	—	—	50
Surface of screen	4,5	—	—	50
Non-metallic button surface	0,6	—	—	40
Supplementary information: <i>For components with temperature marking, allowed Tmax = Tmax - Tma (Tma = 45 °C)</i>				

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

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

10.4	TABLE: Dielectric Strength		N/A
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)
--		--	--
Supplementary information:			

10.4	TABLE: Insulation Resistance Measurements		N/A
Insulation resistance R between:		R (MΩ)	Required R (MΩ)
--		--	--
Supplementary information:			

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
11	TABLE: Fault Conditions				P
No.	Component	Fault	dT (K) / Component	Test conditions, test duration, test result	
1	Whole apparatus	Audio: 100% of max. attainable output power with 1 kHz sine wave signal input	Pri. lead wire dT = 12,8 K PWB (near PQ6) dT = 66,4 K PWB (near UD3) dT = 50,0 K Non-metallic enclosure surface (Top) dT = 8,9 K Non-metallic button surface dT = 0,9 K	EUT run for steady, no component damaged, no hazard Un = 13,2 VDC, In = 4,15 A, Pn = 54,8 W Test time: 1 h 19 min	
2	USB output	Overload	Pri. lead wire dT = 14,7 K PWB (near PU2) dT = 89,4 K PWB (near PQ6) dT = 74,9 K Non-metallic enclosure surface (Top) dT = 12,4 K Non-metallic button surface dT = 1,1 K	USB output current 2,40 A of attaining steady conditions, add 5 %, EUT protected, and input power dropped to 22,3 W, no component damaged, no hazard. Un = 13,2 VDC, In = 4,59 → 1,69 A, Pn = 60,58 → 22,3 W Test time: 3 h 33 min	
3	USB output	s-c	--	EUT shut down immediately, and input power dropped to 1,98 W. No component damaged, no hazard. Un = 13,2 VDC, In = 0,15 A, Pn = 1,98 W	
4	"R" Speaker	s-c	--	No higher temperature rise than normal, no component damaged, no hazard. Un = 13,2 VDC, In = 3,11 A, Pn = 41,05 W	
5	UD3	s-c pin 15/18	--	No higher temperature rise than normal, no component damaged, no hazard. Un = 13,2 VDC, In = 3,05 A, Pn = 40,2 W	
6	C106	s-c	--	No higher temperature rise than normal, no component damaged, no hazard. Un = 13,2 VDC, In = 0,5 A, Pn = 6,6 W	
7	PC79	s-c	--	EUT shut down immediately, and input power dropped to 1,58 W. No component damaged, no hazard. Un = 13,2 VDC, In = 0,12 A, Pn = 1,58 W	

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
8	PEC8	s-c	--	EUT shut down immediately, and PFB5 damaged, input dropped to 12,27 W. no hazard. Un = 13,2 VDC, In = 0,93 A, Pn = 12,27 W	
9	Openings of enclosure	Blocked ventilation	Pri. lead wire dT = 16,7 K PWB (near PQ6) dT = 73,3 K PWB (near U4) dT = 59,0 K Non-metallic enclosure surface (Top) dT = 18,1 K Non-metallic button surface dT = 1,2 K	EUT run for steady, no component damaged, no hazard Un = 13,2 VDC, In = 3,4 A, Pn = 44,8 W Test time: 1 h 53 min	
10	LNB output	Overload	--	No higher temperature rise than normal, no component damaged, no hazard. Un = 13,2 VDC, In = 3,09 → 1,65 A, Pn = 40,78 → 22,31 W	
Supplementary information:					

13	TABLE: Clearance And Creepage Distance Measurements					N/A
Rated supply voltage:	--	Pollution degree ..:	--	Material Group ...:	--	
2 N force on internal parts applied:					--	--
30 N force on outside of conductive enclosure applied:					--	--
clearance and creepage distance at/of:	Working voltage (V)		Clearance (mm)		Creepage (mm)	
	U peak	U r.m.s.	Required	Measured	required	Measured
--						
Supplementary information:						
Notes:						
1. Secondary circuits of Class II apparatus which have connector terminals that could be earthed (e.g. antenna signal input), are subjected to the requirements for circuits conductively connected to the mains in Tables 8 and 9.						
2. Floating secondary circuits of Class I apparatus which have connector terminals that could be earthed (e.g. antenna signal input), are subjected to the requirements for circuits conductively connected to the mains in Tables 8 and 9 unless the floating secondary circuit is separated from the primary circuits by an earthed metal screen (e.g. in the power transformer), or the floating secondary circuit is connected to earth via a component such as a capacitor.						
3. For insufficient clearances and creepage distances from secondary to secondary circuits and from secondary circuits to earth, see Cl. 4.3.1, 4.3.2 and 11.2.						
4. If the minimum creepage distance in Table 11 is less than the minimum required clearance in Tables 8, 9 or 10 as required, then the value for clearance is used as the minimum creepage distance .						
"Min" = minimum required.						
"Actual" = Actual dimensions measured.						
"B" = basic insulation "S" = supplementary insulation "R" = reinforced insulation						

IEC 60065					
Clause	Requirement + Test	Result - Remark			Verdict
14	TABLE: Critical components information				P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
LCD panel	Innolux Corporation	V236XXX-XXX, M236XXX-XXX (X can from 0-9, A-Z or blank)	24"	IEC/EN 60065	Tested with appliance
Plastic material of Enclosure	DONGGUAN CITY YUANHUA Plastic Material Co Ltd	YH-8114	V-0, PS	--	UL (E359544)
Alt.	KINGFA SCI & TECH CO LTD	CK-680(M1)	V-0, PS	--	UL (E171666)
Alt.	KINGFA SCI & TECH CO LTD	JH960 6(M)	V-0, PC/ABS	--	UL (E171666)
Alt.	LG Chemical Ltd.	GN5001RF(T)	V-1, PC/ABS	--	UL (E67171)
Alt.	Chi Mei Corporation	PA-765A(+)	V-1, ABS	--	UL (E56070)
Alt.	BAYER MATERIALSCIENCE AG	UT5205 + (z)	HB, PBT/PC	--	UL (E41613)
Alt.	LG Chemical Ltd.	HI121H	HB, ABS	--	UL (E67171)
Alt.	Chi Mei Corporation	PA-757(+)	HB, ABS	--	UL (E56070)
PWB	Shenzhen Ruomei Electronics Co Ltd	RM-01	V-0, 130 °C	--	UL (E214887)
Alt.	Hong Kong Treasure Investment Ltd	T-D, T-M	V-0, 130 °C	--	UL (E254667)
Alt.	Goldtop Circuits (Huizhou) Co Ltd	GT-01, GT-02	V-0, 130 °C	--	UL (E216098)
Alt.	Cheung Hung Technology International Ltd	CH-M, CH-D	V-0, 130 °C	--	UL (E310726)
Alt.	Meizhou City Hongtai Electronics Co Ltd	HH-1, HH-2, HH-3	V-0, 130 °C	--	UL (E315852)
Alt.	Shenzhen Grandwork Electronics Co Ltd	J-1, J-2	V-0, 130 °C	--	UL (E246366)
Alt.	Shenzhen Mankun Electronics Co Ltd	MK-D	V-0, 130 °C	--	UL (E248237)
Alt.	Shenzhen Victory Electronic Technology Co Ltd	F-M, F-D	V-0, 130 °C	--	UL (E254215)

IEC 60065					
Clause	Requirement + Test		Result - Remark		Verdict
Alt.	MILLION Sources Co Ltd HK	MS-M, MS-1	V-0, 130 °C	--	UL (E198407)
Alt.	Meizhou Taihua Printed Circuit Board Co Ltd	TH-2, TH-1	V-0, 130 °C	--	UL (E338047)
Alt.	ZHUHAI JINGLIHUA PCB CO LTD	94-VOD, JLH94-V0, JLH94-V0C	V-0, 130 °C	--	UL (E249823)
Alt.	EXPRESS Electronics Ltd	10V0,13MV0	V-0, 130 °C	--	UL (E157925)
Alt.	MEIZHOU UNITED XIN Electronics Co Ltd	LX-01	V-0, 130 °C	--	UL (E347890)
Alt.	DONGGUAN Shi PINSHENG Electronic Co Ltd	PS-4, PS-2	V-0, 130 °C	--	UL (E345323)
Alt.	FUJIAN MILKY-WAY Printed Circuit Board Industrial Co Ltd	MW-2, MW-R4, MW-CEM1	V-0, 130 °C	--	UL (E168066)
Alt.	AOSHIKANG PRECISION Circuit (Huizhou) Co Ltd	K-2, K-3	V-0, 130 °C	--	UL (E239218)
Alt.	Interchangeable	Interchangeable	V-0, 105 °C or better	--	UL Cert.
Supplementary information: ¹⁾ Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

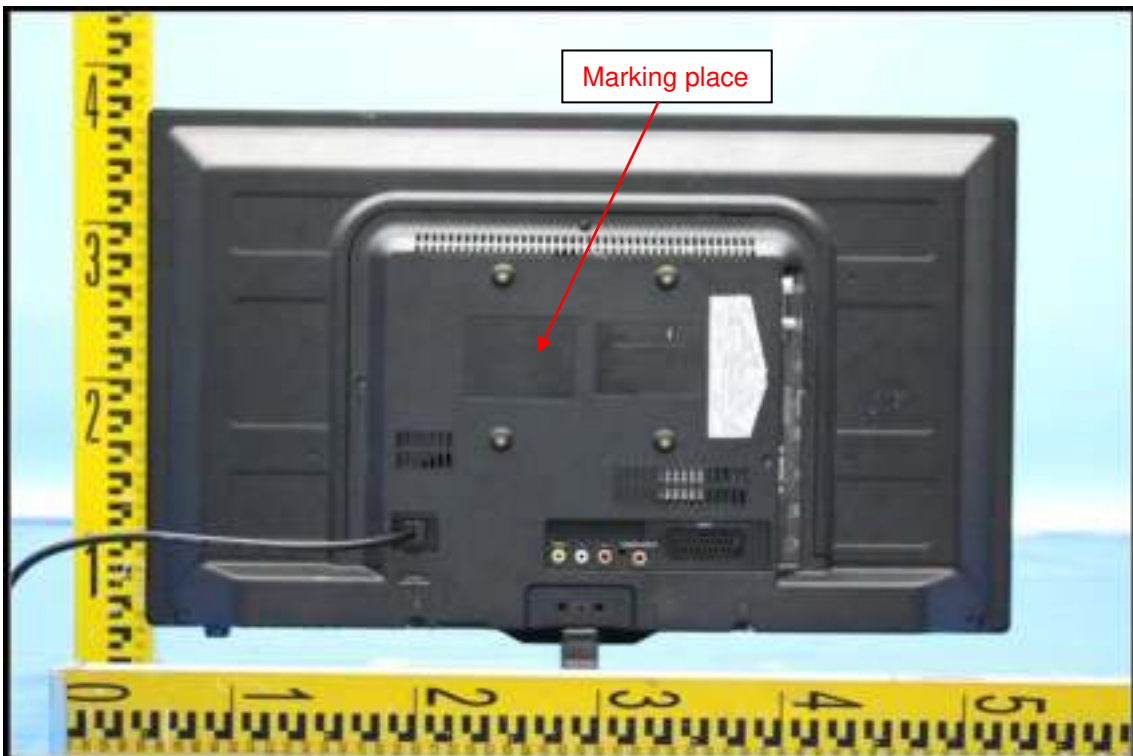
--- END OF REPORT ---

Attachment 1 Photo documentation

Whole unit



Rear view

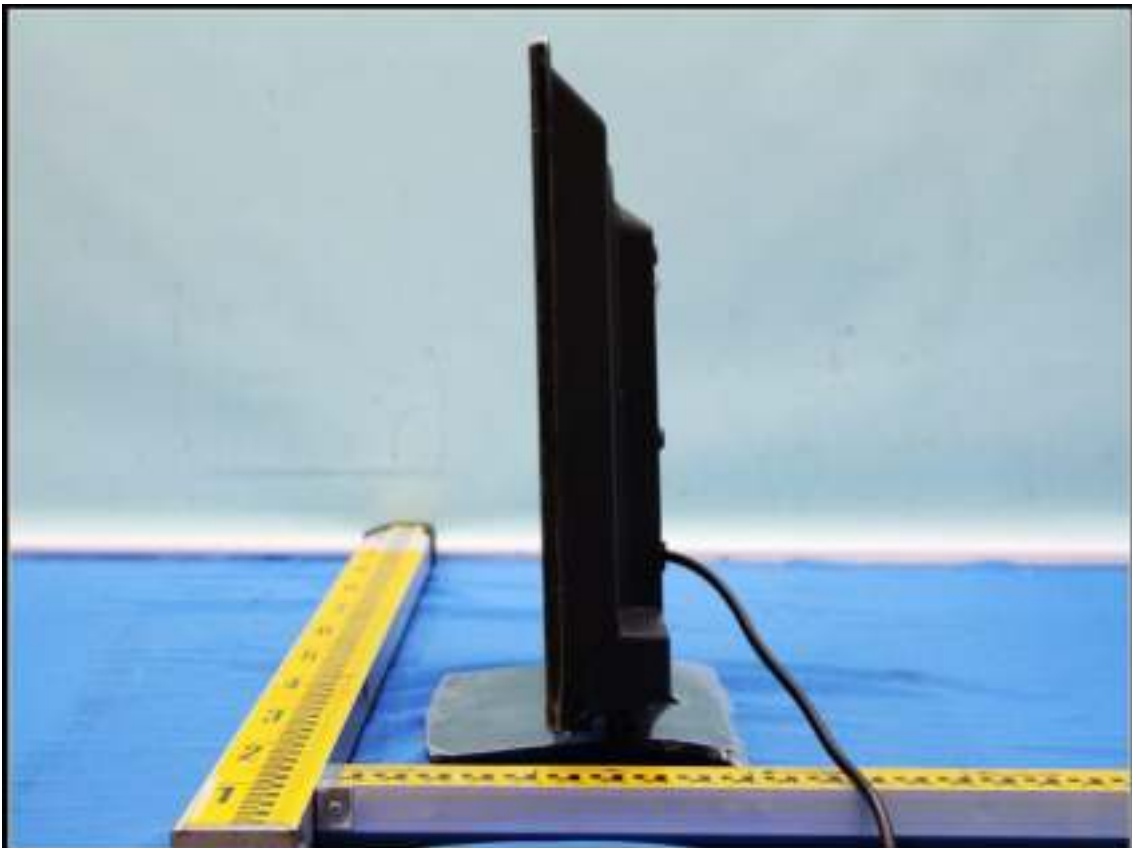


Attachment 1 Photo documentation

Right view



Left view



Attachment 1 Photo documentation

Top view



Bottom view



Attachment 1 Photo documentation

Signal terminals

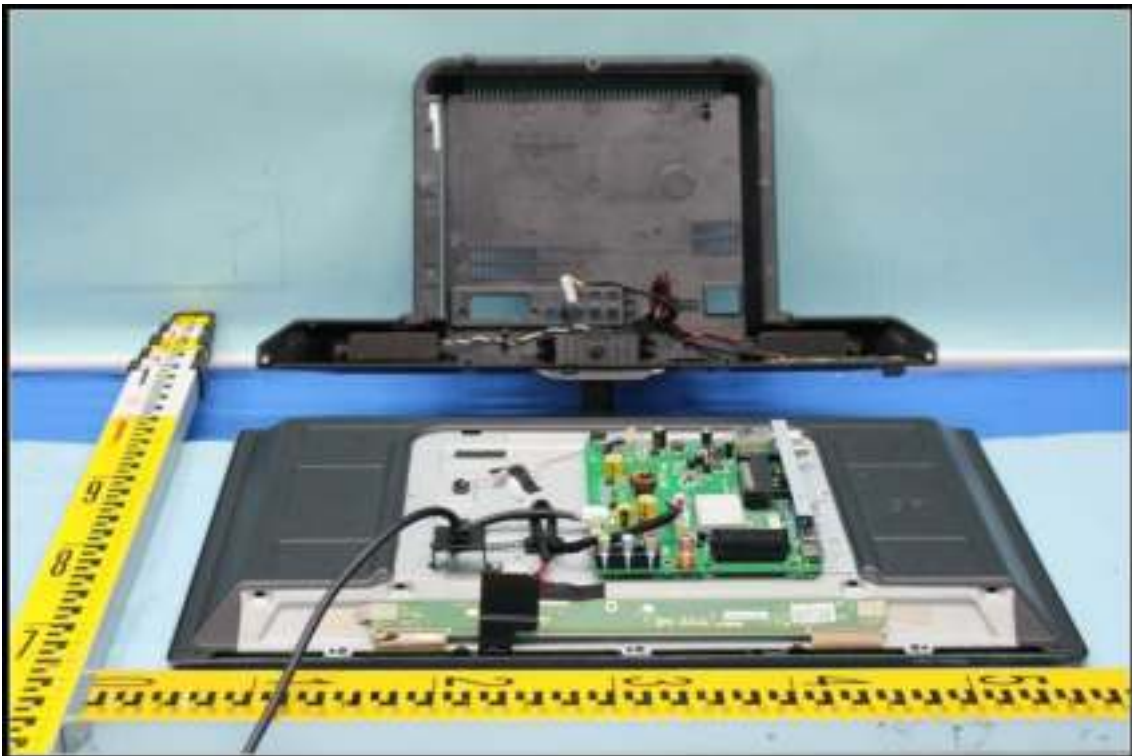


Signal terminals



Attachment 1 Photo documentation

Internal view



Internal view

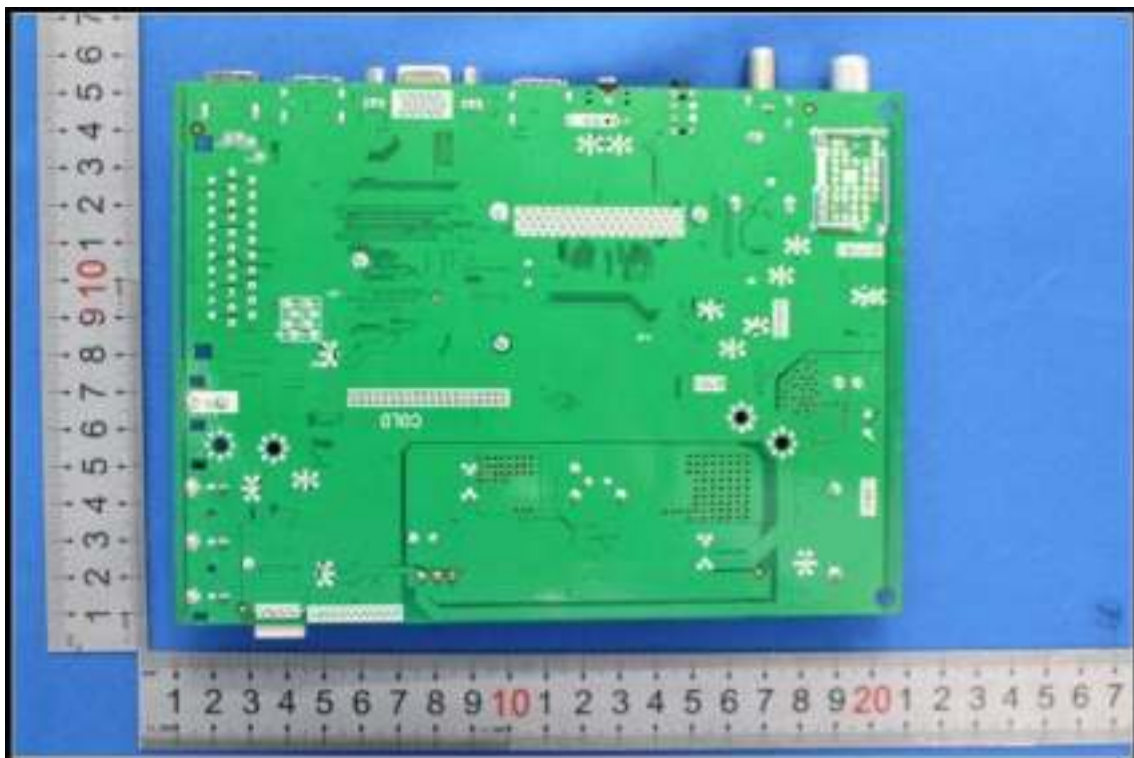


Attachment 1 Photo documentation

PWB



PWB



--- End of Attachment 1 ---