

# Test Report

Report No.: MTi170810S026

Date of issue: Aug. 16, 2017

Sample Description: Vogue fabric speaker and powerbank

Model(s): P326.842

Applicant: \_\_\_\_\_

Address: \_\_\_\_\_

Date of Test: Aug. 10, 2017 to Aug. 16, 2017

Shenzhen Microtest Co., Ltd.  
<http://www.mtitest.com>



<b>TEST REPORT</b> <b>EN 60065</b> <b>Audio, Video and Similar Electronic Apparatus</b> <b>Safety Requirements</b>	
<b>Report Reference No.</b> .....:	MTi170810S026
Tested by (printed name + signature) .....	Day Duan <i>Day Duan</i>
Supervised by (printed name + signature) .....	Julian Ma <i>Julian Ma</i>
Approved by (printed name + signature) .....	Tom Xue <i>Tom Xue</i>
Date of issue.....:	Aug. 16, 2017
<b>Testing Laboratory Name</b> .....	<b>Shenzhen Microtest Co., Ltd.</b>
Address .....	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
Testing location/ address .....	Same as above
<b>Applicant's name</b> .....:	
Address	
<b>Test specification:</b>	
Standard .....	EN 60065:2014+AC:2016+A1:2017
Test procedure .....	LVD
Non-standard test method.....:	N/A
<b>Test Report Form No.</b> .....:	IEC60065K
Test Report Form(s) Originator .....	Intertek Semko AB
Master TRF.....:	Dated 2010-10
<b>Test item description</b> .....	<b>Vogue fabric speaker and powerbank</b>
Trade Mark .....	N/A
Manufacturer .....	
Model/Type reference .....	P326.842
Ratings .....	5V  , 1.0A, Capacity: 2000mAh

**Summary of testing:**

From the result of our tests on the submitted samples, we conclude they comply with the requirements of the standards

**Tests performed (name of test and test clause):**

5 Marking and instructions  
7 Heating under normal operating conditions  
8 Constructional requirements with regard to the protection against electric shock  
10 Insulation requirements  
11 Fault conditions  
12 Mechanical strength  
19 Stability and mechanical hazards  
20 Resistance to fire

**Testing location:**

No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China

**Summary of compliance with National Differences**

**List of countries addressed:**


European group

**The product fulfils the requirements of EN 60065:2014+ AC:2016+A11:2017**

**Copy of marking plate**

**Vogue fabric speaker and powerbank**

Model: P326.842

Rating: 5V , 1.0A



Importer: xxxx

Address: xxxx

**Summary of testing:**

Heating: The apparatus can operate at moderated climates.

Instructions: Instructions/users manual is only in English. The information shall be given in a language acceptable to the country where the apparatus is intended to be sold.

<b>Test item particulars</b> .....	<b>Vogue fabric speaker and powerbank</b>
<b>Classification of installation and use</b> .....	Not classified
<b>Supply Connection</b> .....	Not directly connected to the mains
<b>Possible test case verdicts:</b>	
- 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)
<b>Testing:</b>	
<b>Date of receipt of test item</b> .....	Aug. 10, 2017
<b>Date (s) of performance of tests</b> .....	Aug. 10, 2017 to Aug. 16, 2017
<b>General remarks:</b>	
<p>The test results presented in this report relate only to the object tested.  This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.  "(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 type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.</p> <p>The related applicable OSM decisions have been considered and the requirements found fulfilled  Determination of the test result includes consideration of measurement uncertainty from the test equipment and methods.</p>	
<b>Manufacturer's Declaration per sub-clause 6.2.5 of IEC60335-1:</b>	
<p>The application for obtaining a 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 provide:</p> <p><input type="checkbox"/> Yes  <input checked="" type="checkbox"/> Not applicable</p>	
<b>When differences exist; they shall be identified in the General product information section.</b>	
<b>Name and address of factory (ies)</b> .....	
<b>General product information:</b>	
<p>1.The apparatus under tests is a Vogue fabric speaker and powerbank supply by AC mains.  2.Maximum recommended ambient (Tma): 35°C.</p>	

EN 60065			
Clause	Requirement + Test	Result - Remark	Verdict
<b>3</b>	<b>General requirements</b>		<b>P</b>
	Safety class of the apparatus .....	Not classified	N/A

<b>4</b>	<b>General test conditions</b>		<b>P</b>
4.1.4	Ventilation instructions require the use of the test box	Test in the box according with standard.	P

<b>5</b>	<b>Marking and instructions</b>		<b>P</b>
	Comprehensible and easily discernible	Compliance checked.	P
	Permanent durability against water and petroleum spirit	Compliance was checked by rubbing the marking by hand for 15s with cloth soaked with water and cloth soaked with petroleum spirit, it was durable and legible after the test	P
5.1	a) Identification, maker .....	See marking plate	P
	b) Model number or type reference .....	P326.842	P
	c) Class II symbol if applicable .....		N/A
	d) Nature of supply.....		N/A
	e) Rated supply voltage .....	5V $\overline{\text{~}}$	P
	f) Mains frequency if safety dependant .....		N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use .....		N/A
	Measured current or power consumption .....		N/A
	Deviation % (max 10%) .....		N/A
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply.....	1.0A	P
	Measured current or power consumption .....	See appended table	P
	Measured current or power consumption for Television set .....		N/A
	Deviation % (max 10%) .....	Not exceed the marked value by more than 10%	P
5.2	a) Earth terminal		N/A
	b) Hazardous live terminals	No Hazardous live terminals accessible.	N/A
	c) Markings on supply output terminals		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
5.3	a) Use of triangle with exclamation mark	Such symbol is indicated on circuit diagram for specific components	P
	b) marking on loudspeaker grille, IEC 60417-5036		N/A
5.4	Instructions for use	Reviewed English version	P
5.4.1	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.		P
	b) Hazardous live terminals, instructions for wiring	Not such terminal	N/A
	c) Instructions for replacing lithium battery	No lithium battery	N/A
	d) Class I earth connection warning	Not classified	N/A
	e) Instructions for multimedia system connection	Not used in multimedia system	N/A
	f) Special stability warning for attachment of the apparatus to the floor/wall	Not fixed installation	N/A
	g) Warning: battery exposure to heat	Not such equipment.	N/A
	h) Warning: protective film on CRT face	No CRT	N/A
5.4.2	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings	Coupler is considered as the disconnect device.	P
	c) Instructions for permanently connected equipment	Not permanently connected equipment.	N/A
	Marking, signal lamps or similar for completely disconnection from the mains		N/A

<b>6</b>	<b>Hazardous radiation</b>		<b>N/A</b>
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

<b>7</b>	<b>Heating under normal operating conditions</b>		<b>P</b>
7.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	See appended table 7.1	P
7.1.1	Temperature rise of accessible parts	See appended table 7.1	P
7.1.2	Temperature rise of parts providing electrical insulation	See appended table 7.1	P
7.1.3	Temperature rise of parts acting as a support or as a mechanical barrier	See appended table 7.1	P

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Clause	Requirement + Test	Result - Remark	Verdict
7.1.4	Temperature rise of windings	See appended table 7.1	P
7.1.5	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

<b>8</b>	<b>Constructional requirements with regard to the protection against electric shock</b>		<b>N/A</b>
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	Considered.	N/A
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	Operation "by hand" not possible.	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 equipment		N/A
	Basic insulation between hazardous live parts and earthed accessible parts		N/A
	Resistors bridging basic insulation complying with 14.1 a)	No such component	N/A
	Capacitors bridging basic insulation complying with 14.2.1 a)		N/A
	Protective earthing terminal		N/A
8.6	Class II equipment and Class II constructions within Class I equipment	See below.	N/A
	Double or reinforced insulation between hazardous live parts and accessible parts		N/A
	Components bridging double or reinforced insulation complying with 14.1 a) or 14.3		N/A
	Basic insulation bridged by components complying with 14.3.4.3.		N/A
	Basic and supplementary insulation each being bridged by a capacitor complying with 14.1 a)		N/A
	Double or reinforced insulation being bridged with 2 capacitors in series complying with 14.2.1 a)		N/A
	Double or reinforced insulation being bridged with a single capacitor complying with 14.2.1 b)		N/A
8.7	This clause is void		—



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Clause	Requirement + Test	Result - Remark	Verdict
8.8	Basic or supplementary insulation > 0,4 mm (mm):		N/A
	Reinforced insulation > 0,4 mm (mm) :		N/A
	Thin sheet insulation (excluding non-separable thin sheet insulation. See 8.22)		N/A
	Basic or supplementary insulation, at least two layers, each meeting 10.3		N/A
	Basic or supplementary insulation, three layers any two of which meet 10.3		N/A
	Reinforced insulation, two layers each of which meet 10.3		N/A
	Reinforced insulation, three layers any two which meet 10.3		N/A
8.9	Adequate insulation between internal hazardous live conductors and accessible parts		N/A
	Adequate insulation between internal hazardous live parts and conductors connected to accessible parts		N/A
8.10	Double insulation between conductors connected to the mains and accessible parts.		N/A
	Double insulation between internal hazardous live parts and conductors connected to accessible parts.		N/A
8.11	Detaching of wires		N/A
	No undue reduction of creepages or clearance distances if wires become detached		N/A
	Vibration test carried out :		N/A
8.12	This clause is void		—
8.13	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)		N/A
8.14	Adequate fastening of covers (push/pull test 50 N for 10 s)		N/A
8.15	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges		N/A
8.16	Only special supply equipment can be used		N/A
8.17	Insulated winding wire without additional interleaved insulation		N/A
8.18	Endurance test as required by 8.17		N/A
8.19	Disconnection from the mains		N/A
8.19.1	Disconnect device		N/A
	All-pole switch or circuit breaker with >3mm contact separation		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
8.19.2	Mains switch ON indication		N/A
8.20	Switch not fitted in the mains cord		N/A
8.21	Bridging components comply with clause 14		N/A
8.22	Non-separable thin sheet material		N/A

<b>9</b>	<b>Electric shock hazard under normal operating conditions</b>		N/A
9.1	Testing on the outside		N/A
9.1.1	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation		N/A
9.1.1.1	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 $\mu$ C		N/A
	d) Energy of discharge not exceeding 350 mJ		N/A
9.1.1.2	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	No Pre-set controls	N/A
9.1.6	No shock hazard due to stored charge on withdrawal of the mains plug; voltage (V) after 2 s :		N/A
	If C is not greater than 0,1 $\mu$ F no test needed		N/A
9.1.7	Resistance to external forces	Refer to below.	N/A
	a) Test probe 11 of IEC 61032 for 10 s (50 N)	No damage to the enclosure and no hazardous live parts became accessible	N/A
	b) Test hook of fig. 4 for 10 s (20 N)	No holes in apparatus.	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

<b>10</b>	<b>Insulation requirements</b>	<b>P</b>
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Clause	Requirement + Test	Result - Remark	Verdict
10.1	Insulation resistance (MΩ) at least 2 MΩ min. after surge test for basic and 4 MΩ min. for reinforced insulation :		P
10.2	Humidity treatment 48 h or 120 h :	Performed for 48 hours at temperature 40°C and relative humidity 95%.	P
10.3	Insulation resistance and dielectric strength between mains terminals		N/A
	Insulation Resistance and dielectric strength across BASIC or SUPPLEMENTARY insulation (Class I)		N/A
	Insulation resistance and dielectric strength across REINFORCED insulation (Class II)		N/A

<b>11</b>	<b>Fault conditions</b>		<b>P</b>
11.1	No shock hazard under fault condition	No electric shock hazard under fault conditions	P
11.2	Heating under fault condition	See appended table 11.2	P
	Flames extinguish within 10 seconds	No any flames during fault conditions testing	P
	No hazard from softening solder	Solder did not become softened or fluid during fault conditions testing.	P
	Soldered terminations not used as protective mechanism	No soldered terminations become lose.	P
11.2.1	Measurement of temperature rises	See appended table 11.2	P
11.2.2	Temperature rise of accessible parts	See appended table 11.2	P
11.2.3	Temperature rise of parts, other than windings and printed boards, providing electrical insulation		N/A
11.2.4	Temperature rise of parts acting as a support or mechanical barrier		N/A
11.2.5	Temperature rise of windings		N/A
11.2.6	Temperature rise of printed boards shall not exceed the limits of table 3 by max. 100 K for max. 5 min	The PCB temperature not exceeds the limit on table 3.	N/A
	Printed circuit boards (PCB) classified as V-0 according to 60695-11-10 or Clause G.1 may exceed the limit in table 3 in case a) and b):		N/A
	a) Temperature rise of 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> .....		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	b) Temperature rise of 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
11.2.7	Temperature rise of parts not subject to the limits of 11.2.1 to 11.2.6 shall not exceed the limits in table 3, item e), "Fault conditions".	See appended table 11.2	P

<b>12</b>	<b>Mechanical strength</b>		<b>P</b>
12.1.1	Bump test where mass >7 kg	Mass < 7 kg.	N/A
12.1.2	Vibration test		N/A
12.1.3	Impact hammer test		P
	Steel ball test		P
12.1.4	Drop test for portable apparatus where mass ≤ 7 kg		P
12.1.5	Thermoplastic enclosures stress relief test	70°C, 7hours, No any hazards	P
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)	No drawer	N/A
12.5	Antenna coaxial sockets providing isolation		N/A
12.6	Telescoping or rod antennas construction		N/A
12.6.1	Telescoping or rod antennas securement		N/A

<b>13</b>	<b>Clearances and creepage distances</b>		<b>N/A</b>
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	General		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

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Clause	Requirement + Test	Result - Remark	Verdict
13.4	Creepage distances		N/A
	Creepage distances greater than table 11 minimum values		N/A
13.5	Printed boards		N/A
13.5.1	Clearances and creepage distances between conductors on printed circuit boards, one of which may be conductively connected to the mains, as in fig. 10		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

<b>14</b>	<b>Components</b>		<b>P</b>
14.1	Resistors		N/A
	a) Resistors between hazardous live parts and accessible metal parts	No such resistors	N/A
	b) Resistors, other than between hazardous live parts and accessible parts		N/A
	Resistors separately approved :		N/A
14.2	Capacitors and RC units		N/A
	Capacitors separately approved :	See below	N/A
14.2.1	Y capacitors tested to IEC 60384-14:2005 :		N/A
14.2.2	X capacitors tested to IEC 60384-14:2005 :		N/A
14.2.3	Capacitors operating at mains frequency but not connected to the mains: tests for X2 :	No such capacitor	N/A
14.2.5	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 :	No such capacitor used.	N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	Capacitors with volume exceeding 1750 mm <sup>3</sup> , mounted closer to a potential ignition source than table 5 permits: compliance with IEC 60384-1, 4.38 category B or better :	No such capacitor	N/A
	Shielded by a barrier acc. to 20.1.4/ table 21 or metal :	No such capacitor	N/A
14.3	Inductors and windings	See below	N/A
	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.1.4		N/A
14.3.1	Transformers and inductors marked with manufacturer's name and type :		N/A
	Transformers and inductors separately approved:		N/A
14.3.2	General		N/A
	Insulation material complies with clause 20.1.4		N/A
14.3.3	Constructional requirements	See below.	N/A
14.3.3.1	Clearances and creepage distances comply with clause 13	Transformers complied with clause 13.	N/A
14.3.3.2	Transformers meet the constructional requirements		N/A
14.3.4	Separation between windings		N/A
14.3.4.1	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
14.3.4.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions of 14.3.4.2 are met		N/A
14.3.4.3	Separating transformers with at least basic insulation		N/A
14.3.5	Insulation between HAZARDOUS LIVE parts and ACCESSIBLE parts		N/A
14.3.5.1	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
14.3.5.2	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
14.4	High voltage components		N/A

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Clause	Requirement + Test	Result - Remark	Verdict
	High-voltage components and assemblies: U > 4 kV (peak) separately approved		N/A
	Component meets category V-1 of IEC 60707		N/A
14.4.1	High voltage transformers and multipliers tested as part of the submission		N/A
14.4.2	High voltage assemblies and other parts tested as part of the submission		N/A
14.5	Protective devices		N/A
	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	See appended table 13	N/A
14.5.1.1	a) Thermal cut-outs separately approved	No such component used.	N/A
	b) Thermal cut-outs tested as part of the submission		N/A
14.5.1.2	a) Thermal links separately approved	No such component used.	N/A
	b) Thermal links tested as part of the submission		N/A
14.5.1.3	Thermal devices re-settable by soldering	No such component used	N/A
14.5.2.1	Fuse-links in the mains circuit according to IEC 60127		N/A
14.5.2.2	Correct marking of fuse-links adjacent to holder :		N/A
14.5.2.3	Not possible to connect fuses in parallel :	.	N/A
14.5.2.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool :		N/A
14.5.3	PTC thermistors comply with IEC 60730-1:2007		N/A
	PTC devices (15 W) category V-1 or better		N/A
14.5.4	Circuit protectors have adequate breaking capacity and their position is correctly marked		N/A
14.6	Switches	No switch used	N/A
14.6.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - Make and break speed independent of speed of actuation V-0 compliance with annex G, G.1.1		N/A
14.6.1 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 in annex G, G.1.1		N/A

EN 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Switch controlling > 0.2A with open contact voltage < 35 V (peak)/24 V dc complying with 14.6.3 and V-0 in annex G, 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 in annex G, G.1.1		N/A
14.6.2	Switch tested to 14.6.1 b) constructed to IEC 61058-1 subclause 13.1 and has making/breaking action independent of speed of actuation		N/A
14.6.3	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
14.6.4	Switch tested to 14.6.1 b) has adequate dielectric strength		N/A
14.6.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1		N/A
	Socket outlet current marking correct		N/A
14.7	Safety interlocks	No safety interlocks used	N/A
	Safety interlocks to 2.8 of IEC60065-1		N/A
14.8	Voltage setting devices and the like	No such device used	N/A
	Voltage setting device not likely to be changed accidentally	No such device used	N/A
14.9	Motors	No motor used.	N/A
14.9.1	Endurance test on motors		N/A
	Motor start test		N/A
	Dielectric strength test		N/A
14.9.2	Not adversely affected by oil or grease etc.		N/A
14.9.3	Protection against moving parts		N/A
14.9.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC60065-1, Annex B		N/A
14.10	Batteries		P
14.10.1	Batteries mounted with no risk of accumulation of flammable gases		P
14.10.2	No possibility of recharging non-rechargeable batteries		N/A
14.10.3	Recharging currents and times within manufacturers limits		P
	Lithium batteries discharge and reverse currents within the manufacturers limits		P



<b>EN 60065</b>			
Clause	Requirement + Test	Result - Remark	Verdict
14.10.4	Battery mould stress relief		N/A
14.10.5	Battery drop test		N/A
14.11	Optocouplers	No such device used	N/A
	a) Comply with 13.6 (jointed insulation) and N.2.1		N/A
	b) Comply with IEC 60747-5-5:2007		N/A
	Alternative to a) and b) optocoupler comply with 13.8		N/A
	a) Comply with 13.6 (jointed insulation) and N.2.1		N/A
14.12	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
	Complies with the current pulse, fire hazard and thermal stress requirements of 14.12		N/A

<b>15</b>	<b>Terminals</b>		<b>P</b>
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	Mains plug meet the appropriate standard.	N/A
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	Not provide mains socket outlets to other apparatus.	N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets	No mains socket-outlets.	N/A
15.1.2	Connectors for antenna, earth, audio, video or data		P
	No risk of insertion in mains socket-outlets		N/A
	No risk of insertion into audio- or video- outlets marked with the symbol of 5.2	No such outlets	N/A
15.1.3	Output terminals of a.c. adaptors or similar devices not compatible with household mains socket-outlets		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 coloured		N/A
	Equipment with non-detachable mains cord provided with separate protective earth terminal near mains input		N/A

EN 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Protective earth terminal resistant to corrosion		N/A
	Earth resistance test: < 0,1 at 25 A :		N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply	Not directly connected to the mains	N/A
15.3.1	Adequate terminals for connection of permanent wiring	Not permanently connected equipment	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	No such screws and nuts	N/A
15.3.4	Soldered conductors wrapped around terminal prior to soldering or held in place by additional means	No terminals used.	N/A
	Clamping of conductor and insulation if not soldered or held by screws		N/A
15.3.5	Terminals allow connection of appropriate cross-sectional area of conductors, for the rated current of the equipment		N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	No terminals used.	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 or loosened		N/A
	Terminals adequately fixed to avoid loosening when the clamping is tightened or loosened and stress on internal wiring is avoided		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

<b>EN 60065</b>			
Clause	Requirement + Test	Result - Remark	Verdict
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N/A
<b>16</b>	<b>External flexible cords</b>		N/A
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
16.3	a) Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages, have adequate dielectric strength		N/A
	b) Flexible cords not complying with 16.1, withstand bending and mechanical stress (3.2 of IEC 60227-2)		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 musical instruments and amplifiers fitted with detachable cord set with appliance inlet to IEC 60320-1		N/A
	Transportable musical instruments and amplifiers fitted with detachable cord sets or with means of stowage to protect the cord		N/A
<b>17</b>	<b>Electrical connections and mechanical fixings</b>		<b>P</b>
17.1	Torque test to table 20		P
	- screws into metal: 5 times		P
	- screws into non-metallic material: 10 times		N/A

<b>EN 60065</b>			
Clause	Requirement + Test	Result - Remark	Verdict
17.2	Correct introduction into female threads in non-metallic material		N/A
17.3	Cover fixing screws: captive		N/A
	Non-captive fixing screws: 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 plastic 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 other than screws have adequate strength and their positioning is unambiguous	No such screws used	N/A
17.8	Fixing devices for detachable legs or stands provided	No detachable legs or stands provided	N/A
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected		N/A

<b>18</b>	<b>Mechanical strength of picture tubes and protection against the effects of implosion</b>		<b>N/A</b>
18.1	Picture tube separately approved to IEC 61965 . :	No picture tube provided	N/A
	Picture tube separately approved to 18.2 ..... :		N/A
18.2	Non-intrinsically protected tubes tested to 18.2		N/A

<b>19</b>	<b>Stability and mechanical hazards</b>		<b>P</b>
	Mass of the equipment exceeding 7 kg ..... :	Measured mass: <7kg	N/A
	Apparatus intended to be fastened in place – suitable instructions ..... :	Not intended to be fastened in place-suitable	N/A
19.1	Test on a plane, inclined at 10o to the horizontal		N/A
19.2	100 N force applied vertically downwards		N/A
19.3	100 N force, or 13% of weight, applied horizontally to point of least stability		N/A
19.4	Edges or corners not hazardous	All edges and corners are judged to be sufficiently well rounded so as not to constitute a hazard	P
19.5	Glass surfaces (exc.laminated) with an area exceeding 0,1 m <sup>2</sup> or maximum dimension > 450 mm, pass the test of 19.5.1	No glass surfaces	N/A

EN 60065			
Clause	Requirement + Test	Result - Remark	Verdict
19.6	Wall or ceiling mountings adequate		N/A
<b>20</b>	<b>Resistance to fire</b>		<b>P</b>
20.1	Electrical components and mechanical parts		P
	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 as defined in 20.1	Some small components mounted on UL approved PCB with flammability of V-0	P
20.1.1	Electrical components meet the requirements of Clause 14 or 20.1.4		P
20.1.2	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, not contributing to the spread of fire	No wires working at voltages > 4kV, Insulation of all wires is PVC material	N/A
20.1.3	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 60707, unless used in a fire enclosure	PCB base material is of flammability category V-0	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 60707	PCB base material is of flammability category V-0	P
20.1.4	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		P
	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	No voltages exceeding 4kV	N/A
20.2	Fire enclosure	min.V-0 plastic	P
20.2.1	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
20.2.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	No internal fire enclosure	N/A
20.2.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure		N/A

EN 60065			
Clause	Requirement + Test	Result - Remark	Verdict

<b>A</b>	<b>Annex A, Additional requirements for apparatus with protection against splashing water</b>		<b>N/A</b>
A.5	Marking and instructions	Indoor used only	N/A
A.5.1	j) Marked with IPX4 (IEC 60529), 5.4.1 a) does not apply		N/A
A.10	Insulation requirements		N/A
A.10.2	Splash and humidity treatment		N/A
A.10.2.1	Enclosure provides protection against splashing water		N/A
A.10.2.2	Humidity treatment carried out for 7 days		N/A

<b>B</b>	<b>Annex B, Apparatus to be connected to the TELECOMMUNICATION NETWORKS</b>		<b>N/A</b>
	Complies with IEC 62151 clause 1	The apparatus not intended for connection to telecommunication networks.	N/A
	Complies with IEC 62151 clause 2		N/A
	Complies with IEC 62151 clause 3 but with 3.5.4 modified to 2.4.10 of this standard		N/A
	Complies with IEC 62151 clause 4 but with 4.1.2, 4.1.3 and 4.2.1.2 modified in accordance with annex B of this standard		N/A
	Complies with IEC 62151 clause 5 but with 5.3.1 modified in accordance with annex B of this standard		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

<b>L</b>	<b>ANNEX L, Additional requirements for electronic flash apparatus for photographic purposes</b>		<b>N/A</b>
L. 5	Marking and instructions	No such apparatus	N/A
L. 5.4	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

<b>EN 60065</b>			
Clause	Requirement + Test	Result - Remark	Verdict
L7.1.5 & L11.2.7	Lithium batteries meet permissible temp rise in Table 3, unless comply with 6.2.2.1 or 6.2.2.2 of IEC 60086-4		N/A
L. 9	Electric shock hazard under normal operating conditions		N/A
L. 9.1.1	Terminals to connection to synchroniser not HAZARDOUS LIVE		N/A
L.10	Insulation requirements		N/A
L. 10.3.2	High frequency puls ignition		N/A
L. 12	Mechanical strength		N/A
L. 12.1.3	Windows for flash tubes are excluded from steel ball impact test		N/A
L. 14	Components		N/A
L14.6.6	Mains switch characteristics appropriate to its function under normal conditions		N/A
L. 20	Resistance to fire		N/A
L. 20.1 c)	Trigger coil for discharge purpose is not considered to be a POTENTIAL IGNITION SOURCE		N/A

<b>7.1</b>	<b>TABLE: temperature rise measurements:</b>			<b>P</b>
	Power consumption in the OFF/Stand-by mode of the functional switch (W) .....	Standby: 0.1 W		
	Un (V)	In (A)	Pn (W)	Operating Condition / Status
	5V	0.665	3.32	Normal maximum load
Remark: The measured consumption at rated supply voltage shall not exceed the marked value by more than 10%.				

<b>Table 7.1</b>	<b>Heating under normal operating conditions(Rebel-30 head)</b>			<b>P</b>
--	Test voltage.....	5V		--
	Ambient(t1).....	34.8		
	Ambient(t2).....	35.1		
<b>No.</b>	<b>Test points:</b>	<b>Δt(K)</b>	<b>Limit Δt(K)</b>	
1	PCB near main IC	63.5	130-40=90	
2	Switch block	45.9	60	
3	Surface of battery	52.7	60	
4	Enclosure surface	43.2	60	
Note:				

<b>7.2</b>	<b>TABLE: softening temperature of thermoplastics</b>			<b>N/A</b>
<b>Temperature T of part</b>		<b>T - normal conditions (°C)</b>	<b>T - fault conditions (°C)</b>	<b>Min T softening (°C)</b>
Remark:--				

<b>10.3</b>	<b>TABLE: insulation resistance measurements</b>			<b>P</b>
<b>Insulation resistance R between:</b>		<b>R (MΩ)</b>	<b>Required R (MΩ)</b>	
DC input to Enclosure		>100	2	
Remark:				

<b>10.3</b>	<b>TABLE: electric strength measurements</b>			<b>P</b>
<b>Test voltage applied between:</b>		<b>Test voltage (V)</b>	<b>Breakdown</b>	
DC input to Enclosure		DC500V	No	
Remark:				

<b>11.2</b>	<b>TABLE: summary of fault condition tests</b>			<b>P</b>
	Voltage (V) 0,9 or 1,1 times rated voltage .....	5V		—
	Frequency (Hz).....	--		—
	Ambient temperature (°C) .....	25°C, if not mentioned		—



No.	Component	Fault	dT (K)/ Component	Other results (include description and test duration)
1	Speaker	s-c	--	Unit shut down immediately. Recoverable when fault removed. No damage, no hazard.
2	Main IC	s-c	--	Unit shut down immediately. Recoverable when fault removed. No damage, no hazard.

Winding temperature rise measurements			
Ambient temperature t1 ( C) .....	:	--	
Ambient temperature t2 ( C) .....	:	--	
Remark: s-c = Short-circuit			

13	TABLES: clearances and creepage distances					N/A
Rated supply voltage:	--	Pollution degree . :	II	Material Group.....:	IIIb	
2 N force on internal parts applied:	Component				--	
30 N force on outside of conductive enclosure applied:	plastic enclosure				--	
Location	Working Voltage		Clearance (mm)		Creepage (mm)	
	V rms	V peak	Min	Actual	Min	Actual
Circuits conductively connected to the mains (use Tables 8, 9 and 11): see note below.						
Notes:						

14	TABLE: List of critical components				P
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Mark(s) of conformity <sup>1)</sup>	
PCB	SHENZHEN LONG JIANG INDUSTRY CO LTD	LJ-M, D	Min. V-1, min.130°C, Min. 1.0mm	UL E300052	
Plastic Enclosure	CHI MEI CORPORATION	PA-765A	V-0, 130°C	UL E56070	
Rechargeable Li-ion Battery	Hunan Province Xuneng New Energy Technology Co., Ltd	18650	3.7V, 2000mAh	CE	

14.3.3	TABLE: Transformer/Inductors, constructional requirements							N/A
Loc.	Tested insulation	Working voltage		Required insul. Res. M Ohms (10.3)	Required electric strength (10.3)	Required Distance		
		peak / V (13.2)	rms / V (13.2)			clearance / mm (13.3)	creepage distance / mm (13.4)	distance / mm (8.8)
Loc.	Tested insulation			Measured insul. Res. M Ohms	Tested electric strength	Measured distance		
						clearance / mm	creepage distance / mm	distance / mm
<b>supplementary information:</b>								

**ATTACHMENT TO ADDITIONAL TABLE**

9.1.1.1	Touch current expressed as voltages U1 and U2 in Annex D for adaptor			N/A
Location	Measured U1 V(Peak)	Measured U1 V (DC)	Measured U2 V (peak)	Limits : U1 Max 35V (peak) U1 Max 1.0V (DC) U2 Max 0.35V (peak)
				--
				--
supplementary information:				
Input: 264V/60Hz, Bridge capacitor (CP6) = 1000 pF max.				

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<b>ATTACHMENT TO TEST REPORT IEC 60065</b> <b>EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</b> Audio, video and similar electronic apparatus – Safety requirements			
<b>Differences according to .....</b>		EN 60065:2002 + A1:2006 + A11:2008 + A2:2010	
<b>Attachment Form No.....</b>		EU_GD_IEC60065K	
<b>Attachment Originator .....</b>		Intertek Semko AB	
<b>Master Attachment .....</b>		Date (2011-09)	
<b>Copyright © 2010 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.</b>			
<b>IEC 60065, GROUP DIFFERENCES (CENELEC common modifications (EN))</b>			
Clause	Requirement + Test	Result - Remark	Verdict
Contents	<b>Add</b> the following annexes: <b>Annex ZA</b> (normative) Other international publications quoted in this standard with the references of the relevant European publications (See the CB Bulletin) <b>Annex ZB</b> (nominative) Special national conditions <b>Annex ZC</b> (informative) A-deviations		P
Definition 2.2.Z1 (A11:2008)	<b>Add</b> after the definition 2.2.12 the following new definition: <b>PORTABLE SOUND SYSTEM</b> small battery powered audio equipment: whose prime purpose is to listen to recorded or broadcasted sound; and that uses headphones or earphones that can be worn in or on or around the ears; and that allows the user to walk around NOTE Examples are mini-disc or CD players, MP3 audio players or similar equipment.		N/A
3.1	<b>Add</b> the following indent at the end of the list - Exposure to excessive sound pressures from headphones or earphones NOTE A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
<b>3.Z1</b> (A2:2010)	<p>After 3.2 <b>add</b> a new clause 3.Z1:</p> <p>To protect against excessive current, short-circuits and earth faults in MAINS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c):</p> <p>a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 11 shall be included as parts of the equipment;</p> <p>b) for components in series or parallel with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation;</p> <p>c) it is permitted for equipment supplied via an 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.</p> <p>If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for not via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS the building installation shall be regarded</p>		N/A
4.1.1	<b>Replace</b> the text of the note by: NOTE For ROUTINE TEST reference is made to EN 50333.		
5.4.1 za) (A11:2008)	<b>Modify</b> indent za) as follows: za) For a PORTABLE SOUND SYSTEM, a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
6.1 (A11:2008)	<p><b>Replace</b> the entire subclause in EN 60065:2002 and EN 60065:2002/A1:2006 by:</p> <p><b>Ionizing radiation</b></p> <p>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.</p> <p>Compliance is checked by measurement under the following conditions:</p> <p>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.</p> <p>NOTE 1 Soldered joints and paint lockings are examples of adequate locking.</p> <p>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.</p> <p>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.</p> <p>The dose-rate shall not exceed 1μSv/h (0,1 mR/h) taking account of the background level.</p> <p>NOTE 2 These values appear in Directive 96/29/Euratom of 13th May 1996.</p> <p>A picture is considered to be intelligible if the following conditions are met:</p> <ul style="list-style-type: none"> <li>- a scanning amplitude of at least 70 % of the usable screen width;</li> <li>- a minimum luminance of 50 cd/m<sup>2</sup> with locked blank raster provided by a test generator;</li> <li>- a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;</li> <li>- not more than one flashover per 5 min.</li> </ul>		N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Z1 (A11:2008)	<p><b>Add</b> the following new clause after Clause 20:</p> <p><b>Z1 Resistance to candle flame ignition</b></p> <p>A television set shall be so designed that the likelihood of ignition and the spread of fire caused by a candle flame is reduced.</p> <p>NOTE 1 An apparatus with a viewing screen is not regarded to be a television set if it is declared not to be so by the manufacturer.</p> <p>This requirement does not apply to the display screen of rear projection TV's.</p> <p>NOTE 2 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>NOTE 3 The frame around the screen is not exempted from the requirements.</p> <p>Wood and WOOD-BASED MATERIAL with a thickness of at least 6 mm is considered to fulfil the V-1 requirement when applying CLC/TS 62441.</p> <p>Compliance is checked according to CLC/TS 62441.</p> <p>NOTE 4 The term vertical, as used in the first dash of clause 5.2 of CLC/TS 62441, does not mean a perfectly vertical position. It should be interpreted as any surface that can be touched by the flame of a candle of 150 mm height and 20mm diameter while the candle is still touching the supporting surface. A typical candle used in the home is assumed to be 20 mm diameter.</p> <p>NOTE 5 It is expected that CLC/TS 62441 will in the future be replaced by a standard, at which time that standard will become applicable, subject to a vote by National Committees at the time.</p>		N/A
General	<p>13.3.1 <b>Delete</b> note 4.</p> <p>14 <b>Delete</b> note 4 and note 5.</p> <p>15.1.1 <b>Delete</b> notes 1 and 2.</p> <p>15.2 <b>Delete</b> note 2.</p> <p>16.1 <b>Delete</b> note 1.</p> <p>16.2 <b>Delete</b> the note.</p> <p>20 <b>Delete</b> note 2.</p> <p>Annex B <b>Replace</b> note 1 by: In the CENELEC countries listed in IEC 62151, special national conditions apply.</p> <p>Annex G <b>Delete</b> the note.</p> <p>Annex J.2 <b>Delete</b> the notes of Table J.1.</p> <p>Annex N <b>Add</b> after the introduction: For ROUTINE TEST reference is made to EN 50333.</p>		



ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

General (A2:2010)	In IEC 60065:2001/A2 <b>Delete</b> all the “country” notes according to the following list: 5.3 Note 5.4.1 Note 20 Note For special national conditions, see Annex ZB.		
Bibliography	Additional EN standards.		

<b>ZA</b>	<b>Normative references to international publications with their corresponding European publications</b>		<b>P</b>
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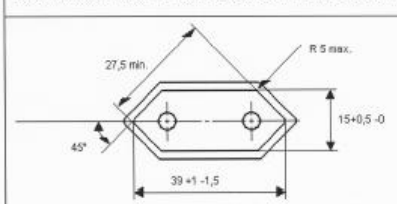
<b>ZB</b>	<b>ANNEX ZB TO EN 60065, SPECIAL NATIONAL CONDITIONS (EN)</b>		<b>P</b>
2.6.1	DK: The following is <b>added</b> : Certain types of CLASS I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socket-outlets Justification: Heavy Current Regulations, Section 107.		N/A
3.Z1 (A2:2010)	<b>Denmark</b> <b>Add</b> 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

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
5.3 (A2:2010)	<p><b>Finland, Norway and Sweden</b></p> <p>To the end of the subclause the following is <b>added</b>:            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 anearthed MAINS socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:            In <b>Finland</b>: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan"            In <b>Norway</b>: "Apparatet må tilkoples jordet stikkontakt"            In <b>Sweden</b>: "Apparaten skall anslutas till jordat uttag"</p>	Shall be evaluated when submitted for national approval	N/A
5.4 (A11:2008)	<p><b>Finland, Norway and Sweden</b></p> <p>To the end of 5.4 the following is <b>added</b>:            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 MAINS socket-outlet with protective earth.</p> <p>The marking text in the applicable countries shall be as follows:            In Finland: "Laite on liitettävä suojamaadoituskoskettimilla varustettuun pistorasiaan"            In Norway: "Apparatet må tilkoples jordet stikkontakt"            In Sweden: "Apparaten skall anslutas till jordat uttag"</p>	Shall be evaluated when submitted for national approval	N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<p>5.4.1 (A11:2008)</p>	<p><b>Norway and Sweden</b></p> <p>To the end of 5.4.1 (after the compliance statement) the following is <b>added</b>:</p> <p>The screen of the cable 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 cable distribution system.</p> <p>It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.</p> <p>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:</p> <p>“Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)”</p> <p>NOTE In Norway, due to regulation for installations of cable distribution systems, 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.</p> <p>Translation to Norwegian (the Swedish text will also be accepted in Norway):</p> <p>“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.”</p> <p>Translation to Swedish:</p> <p>”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 medföra risk för brand. För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.”</p>		<p>N/A</p>
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<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
13.3.1	<p>NO: To the second paragraph the following is <b>added</b>:</p> <p>In Norway, 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.</p> <p>Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided.</p>	Shall be evaluated when submitted for national approval	N/A
15.1.1 (A11:2008)	<p><b>Denmark</b></p> <p>The text of the Danish SNC in EN 60065:2002 has been <b>modified</b> as follows:</p> <p>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 the Heavy Current Regulations Section 107-2-D1.</p> <p>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 in accordance with the Heavy Current Regulations, Section 107-2-D1 standard sheet DK 2-1a.</p> <p>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 the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-4a.</p> <p>Other current ratings socket outlets shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-3a or DKA 1-3b.</p> <p>To the third paragraph the following is added: Mains socket-outlets with earthing contact shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DK 1-3a, DK 1-5a or DK 1-7a.</p> <p>Justification: Heavy Current Regulations, Section 107-2-D1</p>		N/A
15.1.1	<p>IE: Apparatus which is fitted with a flexible cable or cord shall be provided with a 13 A plug in accordance with Statutory Instrument 525:97, "13 A Plugs and Conversion Adapters for Domestic Use Regulations:1997.</p> <p>Justification: SI 525: 1997</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
15.1.1	<p>NO: 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:</p> <p>§ 8 Dimensions</p> <p>a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.</p> <p><small>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 a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.</small></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center; font-size: small;">STANDARD SHEET I</p> <p style="text-align: center; font-size: x-small;">2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II</p>  <p style="font-size: x-small;">Dimensions in mm</p> <p style="font-size: x-small;">Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets".</p> </div> <p><small>§ 24 Mechanical strength a 2.5 A, 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested.</small></p> <p>§ 24 Mechanical strength</p> <p>A 2,5 A 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested</p> <p>Justification: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).</p>		N/A
15.1.1	<p>UK: 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.</p> <p>NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p> <p>Justification: SI 1768: 1994</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict

J.2	<p>NO: After Table J.1 the following is added: In Norway, 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.</p>	Shall be evaluated when submitted for national approval	N/A
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<b>ZC</b>	<b>ANNEXZC TO EN60065, A-DEVIATIONS (EN)</b>		<b>N/A</b>
5.1	IT: Additional markings on the outside of the TV receiver in Italian language		N/A
	IT: User instructions in Italian language including a conformity declaration		N/A
	IT: Certification number on the back cover		N/A
6.1	<p>DE: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: <a href="http://www.ptb.de">http://www.ptb.de</a></p>		N/A
14	<p>SE: Switches containing mercury such as thermostats, relays and level controllers are not allowed. Justification: Ordinance (1990:944) on Prohibition in Connection with handling. Importation and exportation of Chemical Products (Certain Cases)</p>		N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<b>ATTACHMENT TO TEST REPORT IEC 60065</b> <b>EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</b> Audio, video and similar electronic apparatus – Safety requirements			
<b>Differences according to</b> .....: EN 60065:2002 + A1:2006 + A11:2008 + A2:2010+A12:2011			
<b>Attachment Form No.</b> ....: EU_GD_IEC60065K_II			
<b>Attachment Originator</b> .....: IntertekSemko AB			
<b>Master Attachment</b> .....: Date (2011-08)			
<b>Copyright © 2010 IEC System for Conformity Testing and Certification of Electrical Equipment (IECEE), Geneva, Switzerland. All rights reserved.</b>			
IEC 60065, GROUP DIFFERENCES (CENELEC common modifications (EN))			
Clause	Requirement + Test	Result - Remark	Verdict
Contents	<b>Add</b> the following annexes: <b>Annex ZA</b> (normative) Other international publications quoted in this standard with the references of the relevant European publications (See the CB Bulletin) <b>Annex ZB</b> (nominative) Special national conditions <b>Annex ZC</b> (informative) A-deviations		P
Definition 2.2.Z1 (A11:2008)	<b>Add</b> after the definition 2.2.12 the following new definition: <b>PORTABLE SOUND SYSTEM</b> small battery powered audio equipment: whose prime purpose is to listen to recorded or broadcasted sound; and that uses headphones or earphones that can be worn in or on or around the ears; and that allows the user to walk around NOTE Examples are mini-disc or CD players, MP3 audio players or similar equipment.		N/A
2.2 (A12:2011)	In EN 60065:2002/A11:2008 Delete the definition 2.2.Z1		N/A
3.1	<b>Add</b> the following indent at the end of the list - Exposure to excessive sound pressures from headphones or earphones NOTE A new method of measurement is described in EN 50332-1, Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 1: General method for "one package equipment", and in EN 50332-2, Sound system equipment: Headphones and earphones associated with portable audio equipment – Maximum sound pressure level measurement methodology and limit considerations – Part 2: Guidelines to associate sets with headphones coming from different manufacturers.		N/A
3.1 (A12:2011)	In EN 60065:2002 Delete the addition of indent regarding sound pressure excessive		N/A




<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
<b>3.Z1</b> (A2:2010)	After 3.2 <b>add</b> a new clause 3.Z1: To protect against excessive current, short-circuits and earth faults in MAINS, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following, a), b) and c): a) except as detailed in b) and c), protective devices necessary to comply with the requirements of 11 shall be included as parts of the equipment; b) for components in series or parallel with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short-circuit and earth fault protection may be provided by protective devices in the building installation; c) it is permitted for equipment supplied via an 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 not via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS the building installation shall be regarded		N/A
4.1.1	<b>Replace</b> the text of the note by: NOTE For ROUTINE TEST reference is made to EN 50333.		
5.4.1 za) (A11:2008)	<b>Modify</b> indent za) as follows: za) For a PORTABLE SOUND SYSTEM, a warning that excessive sound pressure from earphones and headphones can cause hearing loss.		N/A
5.4.1 (A12:2011)	In EN 60065:2002/A1:2006 and EN 60065:2002/A11:2008 Delete the modification in indent za) Add the following clause and annex to the existing standard and amendments		N/A
	<b>Zx Protection against excessive sound pressure from personal music players</b>		
	<b>Zx.1 General</b> This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players.  A personal music player is a portable equipment		N/A



ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>for personal use, that: is designed to allow the user to listen to recorded or broadcast sound or video; and primarily uses headphones or earphones that can be worn in or on or around the ears; and allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.</p> <p>A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause.</p> <p>The requirements in this sub-clause are valid for music or video mode only.</p> <p>The requirements do not apply: while the personal music player is connected to an external amplifier; or while the headphones or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player.</p> <p>The requirements do not apply to: hearing aid equipment and professional equipment; NOTE 3 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. analogue personal music players (personal music players without any kind of digital processing of the sound signal) that are brought to the market before the end of 2015. NOTE 4 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply.</p>		
Cont.	<p><b>Zx.2 Equipment requirements</b> 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 <math>L_{Aeq,Tis} \leq 85</math> dBA measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and a personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is <math>\leq 27</math> mV measured as described in EN 50332-2, while</p>		N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>playing the fixed “programme simulation noise” as described in EN 50332-1.</p> <p>NOTE 1 Wherever the term acoustic output is used in this clause, the 30 s A-weighted equivalent sound pressure level <math>L_{Aeq,TIS}</math> meant. See also Zx.5 and Annex Zx.</p> <p>All other equipment shall:</p> <p>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</p> <p>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</p> <p>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</p> <p>NOTE 2 Examples of means include visual or audible signals. Action from the user is always required.</p> <p>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.</p> <p>d) have a warning as specified in Zx.3; and</p> <p>e) not exceed the following:</p> <p>1) equipment provided as a package (player with its listening device), the acoustic output shall be <math>\leq 100</math> dBA measured while playing the fixed “programme simulation noise” described in EN 50332-1; and</p> <p>2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be <math>\leq 150</math> mV measured as described in EN 50332-2, while playing the fixed “programme simulation noise” described in EN 50332-1.</p>		
	<p>For music where the average sound pressure (long term <math>L_{Aeq,T}</math>) 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 is below the basic limit of 85 dBA. In this case T becomes the duration of the song.</p> <p>NOTE 4 Classical music typically has an average sound pressure (long term <math>L_{Aeq,T}</math>) which is much lower than the average programme simulation noise. Therefore, if the player is capable</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>to analyse the song and compare it with the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song is below the basic limit of 85 dBA.</p> <p>For example, if the player is set with the programme simulation noise to 85 dBA, but the average music level of the song is only 65 dBA, there is no need to give a warning or ask an acknowledgement as long as the average sound level of the song is not above the basic limit of 85 dBA.</p>		
	<p><b>Zx.3 Warning</b> The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: the symbol of Figure 1 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.”</p> <div style="text-align: center;">  </div> <p><b>Figure 1 – Warning label (IEC 60417-6044)</b></p> <p>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.</p>		N/A
	<b>Zx.4 Requirements for listening devices (headphones and earphones)</b>		
Cont.	<p><b>Zx.4.1 Wired listening devices with analogue input</b> With 94 dBA sound pressure output <math>L_{Aeq,T}</math>, the input voltage of the fixed “programme simulation noise” described in EN 50332-2 shall be <math>\geq 75</math> mV.  This requirement is applicable in any mode where the headphones can operate (active or passive), including any available setting (for example built-in volume level control).  NOTE The values of 94 dBA – 75 mV correspond with 85dBA – 27 mV and 100 dBA – 150 mV.</p>		N/A
	<p><b>Zx.4.2 Wired listening devices with digital input</b>  With any playing device playing the fixed “programme simulation noise” described in EN 50332-1 (and respecting the digital interface standards, where a digital interface standard exists that specifies the equivalent acoustic level),</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
	<p>the acoustic output <math>L_{Aeq,T}</math> of the listening device shall be <math>\leq 100</math> dBA.</p> <p>This requirement is applicable in any mode where the headphones can operate, including any available setting (for example built-in volume level control, additional sound feature like equalization, etc.).</p> <p>NOTE An example of a wired listening device with digital input is a USB headphone.</p>		
	<p><b>Zx.4.3 Wireless listening devices</b> In wireless mode: with any playing and transmitting device playing the fixed programme simulation noise described in EN 50332-1; and respecting the wireless transmission standards, where an air interface standard exists that specifies the equivalent acoustic level; and with volume and sound settings in the listening device (for example built-in volume level control, additional sound feature like equalization, etc.) set to the combination of positions that maximize the measured acoustic output for the above-mentioned programme simulation noise, the acoustic output <math>L_{Aeq,T}</math> of the listening device shall be <math>\leq 100</math> dBA.</p> <p>NOTE An example of a wireless listening device is a Bluetooth headphone.</p>		N/A
	<p><b>Zx.5 Measurement methods</b> Measurements shall be made in accordance with EN 50332-1 or EN 50332-2 as applicable. Unless stated otherwise, the time interval T shall be 30 s.</p> <p>NOTE Test method for wireless equipment provided without listening device should be defined.</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
6.1  (A11:2008)	<p><b>Replace</b> the entire subclause in EN 60065:2002 and EN 60065:2002/A1:2006 by:</p> <p><b>Ionizing radiation</b></p> <p>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.</p> <p>Compliance is checked by measurement under the following conditions:</p> <p>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.</p> <p>NOTE 1 Soldered joints and paint lockings are examples of adequate locking.</p> <p>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.</p> <p>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.</p> <p>The dose-rate shall not exceed 1μSv/h (0,1mR/h) taking account of the background level.</p> <p>NOTE 2 These values appear in Directive 96/29/Euratom of 13th May 1996.</p> <p>A picture is considered to be intelligible if the following conditions are met:</p> <ul style="list-style-type: none"> <li>- a scanning amplitude of at least 70 % of the usable screen width;</li> <li>- a minimum luminance of 50 cd/m<sup>2</sup> with locked blank raster provided by a test generator;</li> <li>- a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;</li> <li>- not more than one flashover per 5 min.</li> </ul>		N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
Z1 (A11:2008)	<p><b>Add</b> the following new clause after Clause 20:</p> <p><b>Z1 Resistance to candle flame ignition</b></p> <p>A television set shall be so designed that the likelihood of ignition and the spread of fire caused by a candle flame is reduced.</p> <p>NOTE 1 An apparatus with a viewing screen is not regarded to be a television set if it is declared not to be so by the manufacturer.</p> <p>This requirement does not apply to the display screen of rear projection TV's.</p> <p>NOTE 2 This exemption has been allowed because this technology is falling out of use and it is expected that within a few years it will no longer exist. This exemption will not be extended to other technologies.</p> <p>NOTE 3 The frame around the screen is not exempted from the requirements.</p> <p>Wood and WOOD-BASED MATERIAL with a thickness of at least 6 mm is considered to fulfil the V-1 requirement when applying CLC/TS 62441.</p> <p>Compliance is checked according to CLC/TS 62441.</p> <p>NOTE 4 The term vertical, as used in the first dash of clause 5.2 of CLC/TS 62441, does not mean a perfectly vertical position. It should be interpreted as any surface that can be touched by the flame of a candle of 150 mm height and 20mm diameter while the candle is still touching the supporting surface. A typical candle used in the home is assumed to be 20 mm diameter.</p> <p>NOTE 5 It is expected that CLC/TS 62441 will in the future be replaced by a standard, at which time that standard will become applicable, subject to a vote by National Committees at the time.</p>		N/A
General	<p>13.3.1 <b>Delete</b> note 4.</p> <p>14 <b>Delete</b> note 4 and note 5.</p> <p>15.1.1 <b>Delete</b> notes 1 and 2.</p> <p>15.2 <b>Delete</b> note 2.</p> <p>16.1 <b>Delete</b> note 1.</p> <p>16.2 <b>Delete</b> the note.</p> <p>20 <b>Delete</b> note 2.</p> <p>Annex B <b>Replace</b> note 1 by: In the CENELEC countries listed in IEC 62151, special national conditions apply.</p> <p>Annex G <b>Delete</b> the note.</p> <p>Annex J.2 <b>Delete</b> the notes of Table J.1.</p> <p>Annex N <b>Add</b> after the introduction: For ROUTINE TEST reference is made to EN 50333.</p>		

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

General (A2:2010)	In IEC 60065:2001/A2 <b>Delete</b> all the “country” notes according to the following list: 5.3 Note 5.4.1 Note 20 Note For special national conditions, see Annex ZB.		
Bibliography	Additional EN standards.		

<b>ZA</b>	<b>Normative references to international publications with their corresponding European publications</b>	<b>P</b>
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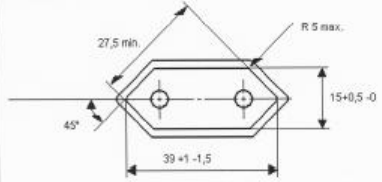
<b>ZB</b>	<b>ANNEX ZB TO EN 60065, SPECIAL NATIONAL CONDITIONS (EN)</b>		
2.6.1	DK: The following is <b>added</b> : Certain types of CLASS I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socket-outlets Justification: Heavy Current Regulations, Section 107.		N/A
3.Z1 (A2:2010)	<b>Denmark</b> <b>Add</b> 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.	The protective device on the internal of equipment. No socket-outlets.	N/A

ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.3 (A2:2010)	<p><b>Finland, Norway and Sweden</b></p> <p>To the end of the subclause the following is <b>added</b>:            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.</p> <p>The marking text in the applicable countries shall be as follows:            In <b>Finland</b>: "Laite on liitettäväsuojaoskettimillavarustettuunpistorasiaan"            In <b>Norway</b>: "Apparatetmåtkoplesjordetstikkontakt"            In <b>Sweden</b>: "Apparatenskillanslutats till jordatuttag"</p>		N/A
5.4 (A11:2008)	<p><b>Finland, Norway and Sweden</b></p> <p>To the end of 5.4 the following is <b>added</b>:            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 MAINS socket-outlet with protective earth.</p> <p>The marking text in the applicable countries shall be as follows:            In Finland: "Laite on liitettäväsuojaoskettimillavarustettuunpistorasiaan"            In Norway: "Apparatetmåtkoplesjordetstikkontakt"            In Sweden: "Apparatenskillanslutats till jordatuttag"</p>		N/A



ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict
5.4.1 (A11:2008)	<p><b>Norway and Sweden</b></p> <p>To the end of 5.4.1 (after the compliance statement) the following is <b>added</b>:</p> <p>The screen of the cable 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 cable distribution system.</p> <p>It is however accepted to provide the insulation external to the equipment by an adapter or an interconnection cable with galvanic isolator, which may be provided by e.g. a retailer.</p> <p>The user manual shall then have the following or similar information in Norwegian and Swedish language respectively, depending on in what country the equipment is intended to be used in:</p> <p>“Equipment connected to the protective earthing of the building installation through the mains connection or through other equipment with a connection to protective earthing – and to a cable distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)”</p> <p>NOTE In Norway, due to regulation for installations of cable distribution systems, 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.</p> <p>Translation to Norwegian (the Swedish text will also be accepted in Norway):</p> <p>Translation to Swedish:</p> <p>”Utrustningsomärkopplad till skyddsjord via jordatvägguttagoch/eller via annanutrustningochsamtidigtärkopplad till kabel-TV nätkanivissa fall medföra risk för brand.</p> <p>Förrättundvikadettaskall vid anslutningavutrustningen till kabel-TV nätgalvanisk isolator finnas mellanutrustningen och kabel-TV nätet.”</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
13.3.1	<p>NO: To the second paragraph the following is <b>added</b>:</p> <p>In Norway, 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.</p> <p>Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided.</p>		N/A
15.1.1 (A11:2008)	<p><b>Denmark</b></p> <p>The text of the Danish SNC in EN 60065:2002 has been <b>modified</b> as follows:</p> <p>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 the Heavy Current Regulations Section 107-2-D1.</p> <p>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 in accordance with the Heavy Current Regulations, Section 107-2-D1 standard sheet DK 2-1a.</p> <p>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 the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-4a.</p> <p>Other current ratings socket outlets shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DKA 1-3a or DKA 1-3b.</p> <p>To the third paragraph the following is added: Mains socket-outlets with earthing contact shall be in compliance with the Heavy Current Regulation, Section 107-2-D1 standard sheet DK 1-3a, DK 1-5a or DK 1-7a.</p> <p>Justification: Heavy Current Regulations, Section 107-2-D1</p>	<p>No socket-outlets.</p> <p>No socket-outlets.</p> <p>No socket-outlets.</p>	--
15.1.1	<p>IE: Apparatus which is fitted with a flexible cable or cord shall be provided with a 13 A plug in accordance with Statutory Instrument 525:97, "13 A Plugs and Conversion Adapters for Domestic Use Regulations:1997.</p> <p>Justification: SI 525: 1997</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict
15.1.1	<p>NO: 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:</p> <p>§ 8 Dimensions</p> <p>a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.</p> <p><small>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 a 2.5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I.</small></p> <div style="border: 1px solid black; padding: 5px; margin: 10px 0;"> <p style="text-align: center; margin: 0;">STANDARD SHEET I</p> <p style="text-align: center; margin: 0;">2.5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II</p>  <p style="font-size: small; margin: 5px 0;">Dimensions in mm</p> <p style="font-size: x-small; margin: 0;">Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets".</p> </div> <p><small>§ 24 Mechanical strength a 2.5 A, 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested.</small></p> <p>§ 24 Mechanical strength</p> <p>A 2,5 A 250 V socket-outlets for CLASS II electronic apparatus are tested as specified in 12.1.3 of EN 60065. Also the protecting rim shall be tested</p> <p>Justification: Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).</p>	No socket-outlets.	N/A
15.1.1	<p>UK: 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.</p> <p>NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug.</p> <p>Justification: SI 1768: 1994</p>		N/A

<b>ATTACHMENT</b>			
Clause	Requirement + Test	Result - Remark	Verdict

J.2	<p>NO: After Table J.1 the following is added: In Norway, 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.</p>		N/A
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<b>ZC</b>	<b>ANNEXZC TO EN60065, A-DEVIATIONS (EN)</b>		<b>N/A</b>
5.1	IT: Additional markings on the outside of the TV receiver in Italian language		N/A
	IT:User instructions in Italian language including a conformity declaration		N/A
	IT: Certification number on the back cover		N/A
6.1	<p>DE: 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. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the European Directive 96/29/EURATOM. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: <a href="http://www.ptb.de">http://www.ptb.de</a></p>		N/A
14	<p>SE: Switches containing mercury such as thermostats, relays and level controllers are not allowed. Justification: Ordinance (1990:944) on Prohibition in Connection with handling. Importation and exportation of Chemical Products (Certain Cases)</p>	No Switch.	N/A

Photos of the product

Photo 1

- front
- rear
- right side
- left side
- top
- bottom
- internal

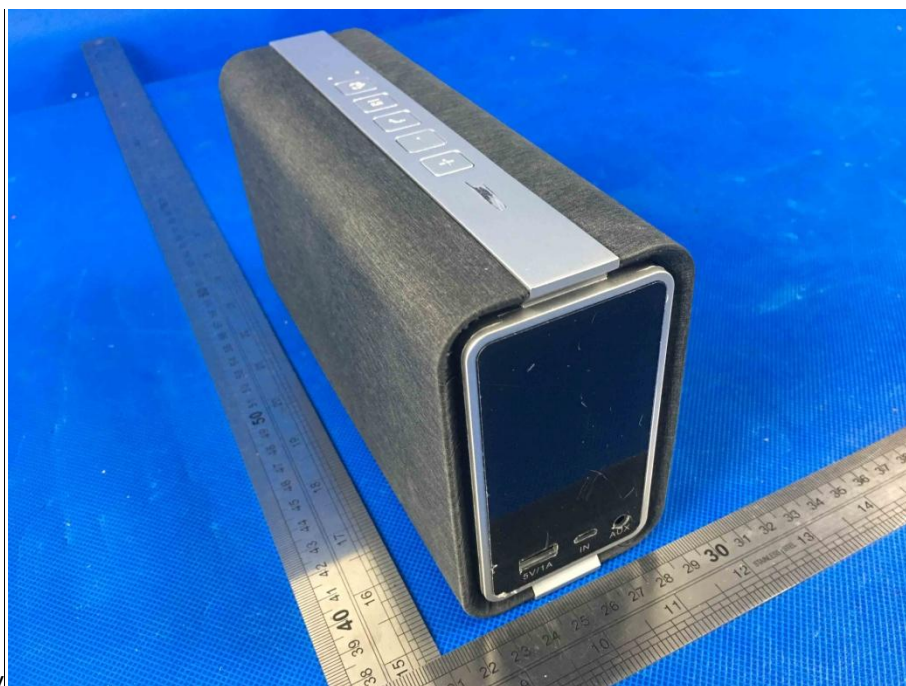


Photo 2

- front
- rear
- right side
- left side
- top
- bottom
- internal

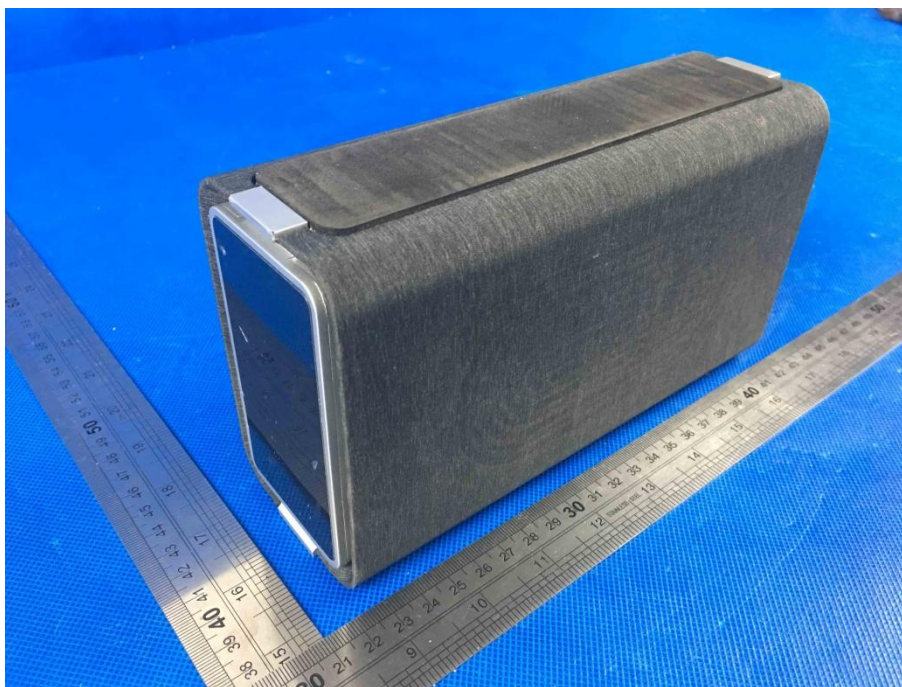




Photo 3

- front
- rear
- right side
- left side
- top
- bottom
- internal



Photo 4

- front
- rear
- right side
- left side
- top
- bottom
- internal



Photo 5

- front
- rear
- right side
- left side
- top
- bottom
- internal

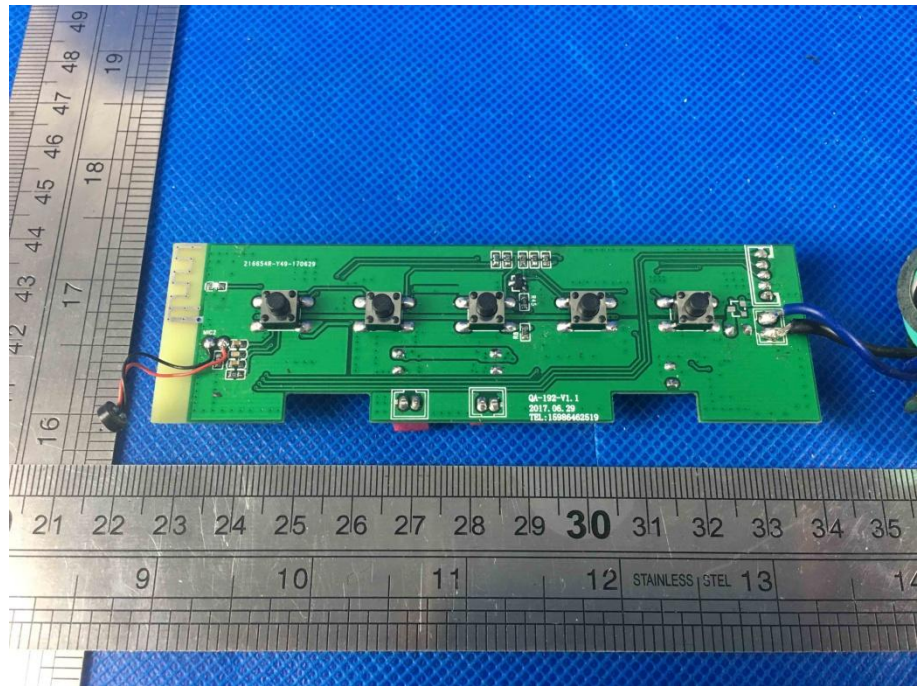


Photo 6

- front
- rear
- right side
- left side
- top
- bottom
- internal

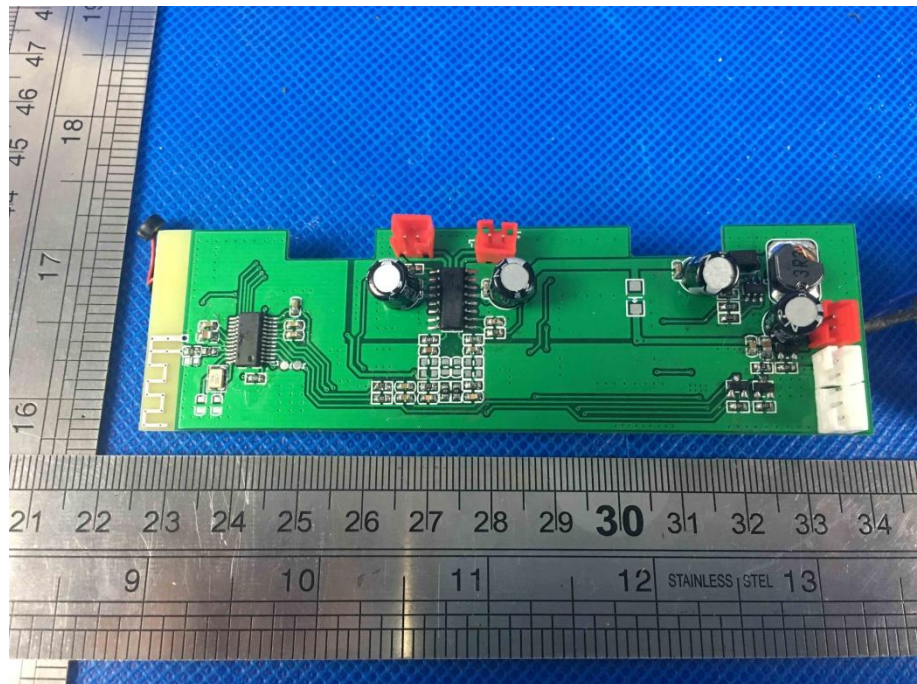




Photo 7

- front
- rear
- right side
- left side
- top
- bottom
- internal

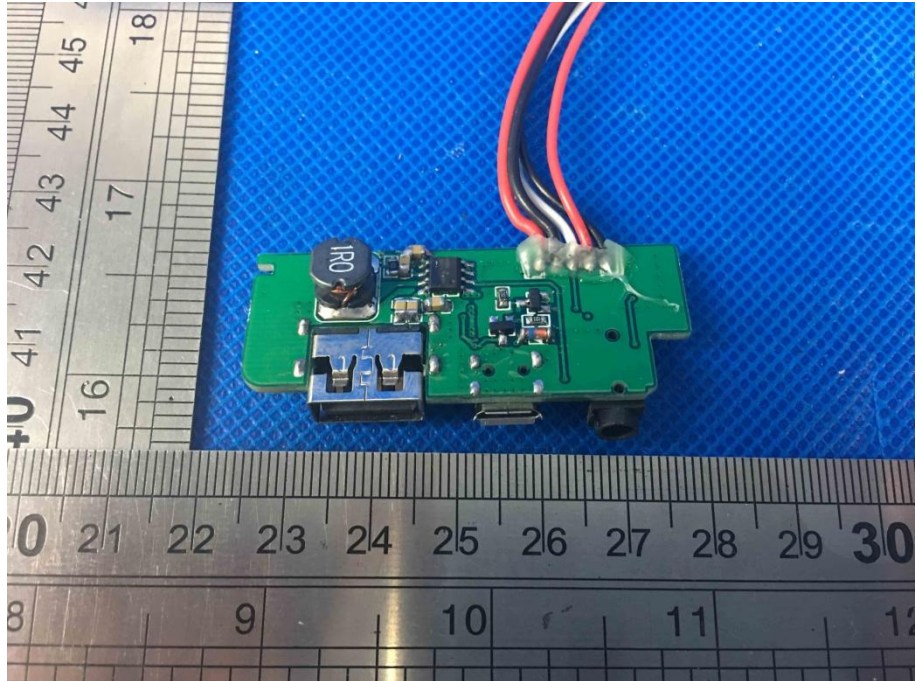


Photo 8

- front
- rear
- right side
- left side
- top
- bottom
- internal

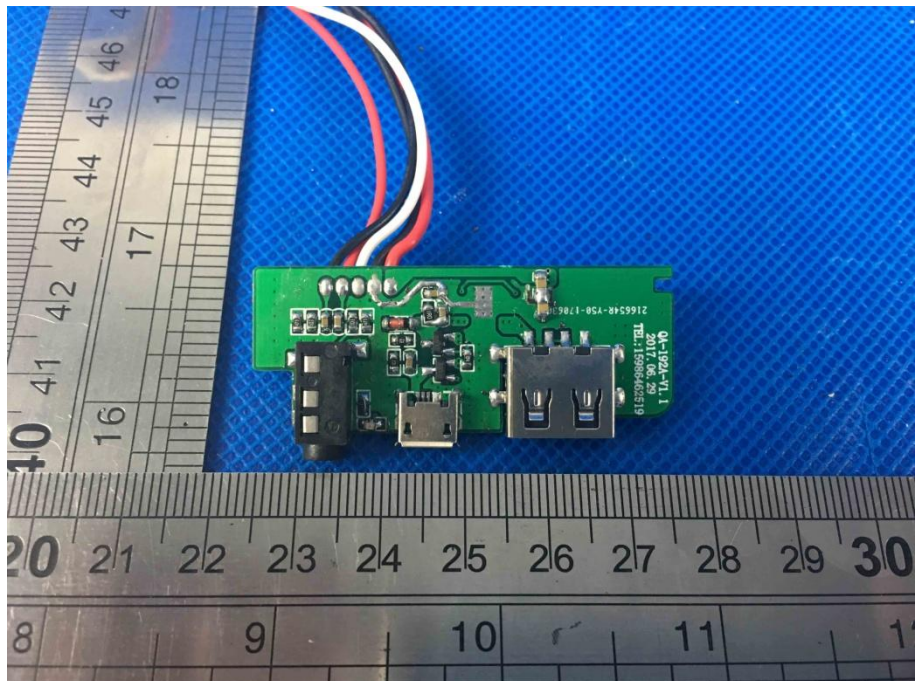
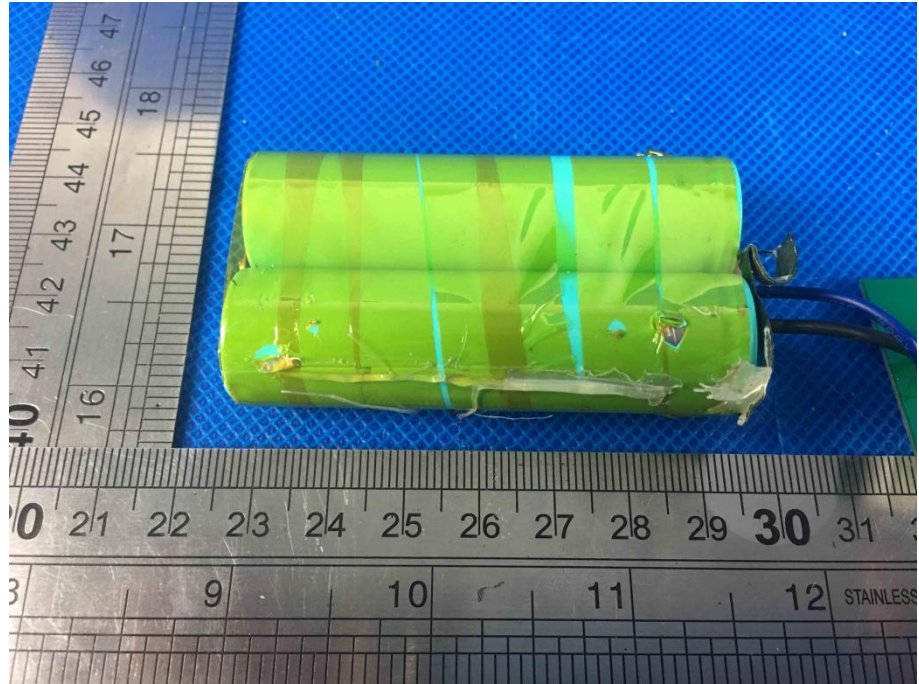




Photo 9

- front
- rear
- right side
- left side
- top
- bottom
- internal



----- End Of Report -----