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TEST REPORT IEC 60065

Audio, video and similar electronic apparatus – Safety requirements

Report Number.....: LCS181023018AS

Date of issue.....: 2018-11-19

Total number of pages 47

Name of Testing Laboratory Shenzhen LCS Compliance Testing Laboratory Ltd.

preparing the Report.....

Address....:

Test specification:

Standard.....: IEC 60065:2014 (Eighth Edition)

Test procedure: Type test

Non-standard test method: N/A

Test Report Form No.: IEC60065M

Test Report Form(s) Originator: Intertek Semko AB

Master TRF.....: Dated 2016-10

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This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

General disclaimer:

The test results presented in this report relate only to the object tested.

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Test	t item description	Wirele	ess light up logo speaker	
Trac	de Mark:	N/A		
Man	ufacturer:			
Mod	lel/Type reference:	XO-95	61-1	
Rati	ngs:	Input:	5V=-, 500mA	
		Battery	y: 3.7V=, 400mAh	
Res	ponsible Testing Laboratory (as a	pplical	ble), testing procedure	and testing location(s):
\boxtimes	CB Testing Laboratory:		Shenzhen LCS Compliance Testing Laboratory Ltd.	
Testing location/ address		:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China	
	Associated CB Testing Laborato	ry:		
Test	ing location/ address	:		
Test	ed by	:	Uic Wan / Test engineer	Vic Wan
Checked by		:	Eli. Zhang / Project engineer	of Testing
Appr	roved by	:	Peter Chen / Project manager	Marifz.



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List of Attachments (including a total number of pages in each attachment):

Attachment No. 1: European group differences and national differences .(15 pages)

Attachment No. 2: Photo documentation. (6 pages)

Summary of testing:

Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

Electrical safety

- > IEC 60065:2014 ED8
- > EN 60065:2014
- > EN 60065:2014/A11:2017

Testing location:

Shenzhen LCS Compliance Testing Laboratory Ltd.

Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China

Summary of compliance with National Differences:

List of countries addressed: National Differences and Group Differences as per CB bulletin. See the attachment of National and Group Differences for details.

☑ The product fulfils the requirements of EN 60065:2014+A11:2017.

Copy of marking plate:

The artwork below may be only a draft.

Wireless light up logo speaker

Model: XO-9561-1 Input: 5V--, 500mA Battery: 3.7V--, 400mAh

Importer: XXXX Address: XXXX



Made in China

Note:

The height dimension of CE mark should not less than 5mm, the height dimension of WEEE symbol should not less than 7mm.



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Test item particulars:				
Classification of installation and use:	Portable			
Supply Connection::	Not directly connect to the mains			
:				
Possible test case verdicts:				
- test case does not apply to the test object:	N/A (Not Applicable)			
- test object does meet the requirement	P (Pass)			
- test object does not meet the requirement	F (Fail)			
Testing				
Date of receipt of test item	2018-10-23			
Date (s) of performance of tests	From 2018-10-23 to 2018-11-19			
General remarks:				
"(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report. Throughout this report a ☐ comma / ☒ point is used as the decimal separator.				
Throughout this report a ☐ comma / ☒ point is u	·			
	se numbers for Drop test (12.1.5) and Stress relief			
Throughout this report a \square comma / \boxtimes point is understood Note: Due to an identified error in the TRF the clau	se numbers for Drop test (12.1.5) and Stress relief the original TRF.			
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Note: Due to an identified error in the TRF the clautest (12.1.6) are corrected in this TRF compared to Manufacturer's Declaration per sub-clause 4.2.5 of The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has	se numbers for Drop test (12.1.5) and Stress relief the original TRF. IECEE 02: Yes Not applicable			
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V			
	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict

	3	GENERAL REQUIREMENTS		Р
ſ		Safety class of the apparatus:	Not classified	N/A

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

5	MARKING AND INSTRUCTIONS		Р
5.1	General requirements		Р
	Comprehensible and easily discernible		Р
	Permanent durability against water and petroleum spirit	Compliance was checked by rubbing the marking by hand for 15 s with cloth soaked with water and cloth soaked with petroleum spirit, it was not possible to remove marking plate and no curling observed after the test	Р
5.2	Identification and supply rating	rubbing the marking by hand for 15 s with cloth soaked with water and cloth soaked with petroleum spirit, it was not possible to remove marking plate and no curling observed after the test See the report page 2 Not directly connected to the mains 5V Not directly connected to the mains 500mA	Р
	a) Identification, maker:		Р
	b) Model number or type reference:	See the report page 2	Р
	c) Class II symbol or Class II with functional earth symbol if applicable:	· · · · · · · · · · · · · · · · · · ·	N/A
	d) Nature of supply:		Р
	e) Rated supply voltage:	5V	Р
	f) Mains frequency if safety dependant:	_	N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use, on apparatus or in instruction manual:	500mA	Р
	Measured current or power consumption:	0.32A	Р
	Deviation % (max 10%)	-36.0%	Р
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply:		N/A
	Measured current or power consumption:		N/A
	Measured current or power consumption for Television set:		N/A
	Deviation % (max 10%):		N/A
	Symbols explained in the user manual	No such terminals	N/A



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IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict

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

6	HAZARDOUS RADIATION		Р
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)	No such device	N/A
	Ionizing radiation under fault condition		N/A



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	IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict	
6.2	Laser radiation, emission limits to IEC 60825-1:2007	No laser	N/A	
	Emission limits under fault conditions:		N/A	
6.3	Light emitting diodes (LEDs) according to IEC 62471		N/A	

7	HEATING UNDER NORMAL OPERATING CONDIT	IONS	Р
7.1	General		Р
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	(see appended table 7.1)	Р
7.1.2	Temperature rise of accessible parts	(see appended table 7.1)	Р
7.1.3	Temperature rise of parts providing electrical insulation		N/A
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	(see appended table 7.1)	Р
7.1.5	Temperature rise of windings		N/A
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4		Р
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0,2 A at least 150 °C		N/A

8	CONSTRUCTIONAL REQUIREMENTS WITH REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK	
	No hazardous live part exist in the equipment	
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	N/A
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material	N/A
8.4	No risk of electric shock from accessible parts or from parts rendered accessible following the removal of a cover which can be removed by hand	N/A
8.5	Class I apparatus	N/A
	Basic insulation between hazardous live parts and earthed accessible parts	N/A
	Resistors bridging basic insulation complying with 14.2 a)	N/A
	Capacitors bridging basic insulation complying with 14.3.2 a)	N/A

TRF No. IEC60065M

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IEC 60065

Clause	Requirement + Test	Result - Remark	Verdict
	Protective earthing terminal		N/A
8.6	Class II apparatus		N/A
	a) Basic and supplementary insulation between hazardous live parts and accessible parts		N/A
	b) Reinforced insulation between hazardous live parts and accessible parts		N/A
8.7	Components bridging insulation		N/A
	Basic insulation bridged by components complying with 14.4.5.3		N/A
	Components bridging basic, supplementary, double or reinforced insulation complying with 14.2 a) or 14.4		N/A
	Basic and supplementary insulation each being bridged by a capacitor or RC-unit complying with 14.3.2 a)		N/A
	Double or reinforced insulation being bridged with 2 capacitors or RC-units in series complying with 14.3.2 a)		N/A
	Double or reinforced insulation being bridged with a single capacitor or RC-unit complying with 14.3.2 b)		N/A
8.8	Insulation thickness and thin sheet materials		N/A
	Basic or supplementary insulation > 0,4 mm (mm):		N/A
	Reinforced insulation > 0,4 mm (mm)		N/A
	Thin sheet material used inside the equipment		N/A
	Basic or supplementary insulation, at least two layers, each meeting 10.4		N/A
	Basic or supplementary insulation, three layers any two of which meet 10.4		N/A
	Reinforced insulation, two layers each of which meet 10.4		N/A
	Reinforced insulation, three layers any two which meet 10.4		N/A
8.9	Adequate insulation between internal hazardous live conductors and accessible parts, or between internal hazardous live parts and conductors connected to accessible parts		N/A
8.10	Double insulation between accessible parts and conductors connected to the mains		N/A
	Double insulation between conductors connected to accessible parts and parts connected to the mains		N/A



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 IEC 60065

 Clause
 Requirement + Test
 Result - Remark
 Verdict

Ciaacc	rtoquiomont i root	Troodic Tromain	Volunot
8.11	Detaching of wires	,	N/A
	No undue reduction of creepage or clearance distances if wires become detached		N/A
	Vibration test carried out:		N/A
8.12	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)		N/A
8.13	Adequate fastening of covers (push/pull test 50 N for 10 s)		N/A
8.14	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges		N/A
8.15	Only special supply equipment can be used		N/A
8.16	Insulated winding wire without additional interleaved insulation		N/A
8.17	Endurance test as required by 8.16		N/A
8.18	Disconnection from the mains		N/A
	Disconnect device	Not directly connected to mains	N/A
	All-pole switch or circuit breaker with >3mm contact separation		N/A
	Mains switch ON indication		N/A
8.19	Switch not fitted in the mains cord		N/A
8.20	Bridging components comply with clause 14	No such components used	N/A
8.21	Non-separable thin sheet material		N/A

9	ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITION No electric shock hazards exist in the equipment		N/A
9.1	Testing on the outside		N/A
		Internal voltages<10Vdc	
9.1.1	General		N/A
9.1.1.1	Requirements		N/A
	Accessible parts shall not be hazardous live		N/A
	Inaccessible terminals are not accessible or comply with relevant requirements		N/A
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation:		N/A
9.1.1.2	Determination of hazardous live parts		N/A
	a) Open circuit voltages		N/A
	b) Touch current measured from terminal devices using the network in annex D:		N/A

TRF No. IEC60065M

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9.1.7

9.2



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N/A

N/A

N/A

N/A

N/A N/A

	IEC 60065				
Clause	Requirement + Test	Result - Remark	Verdict		
	c) Discharge not exceeding 45 µC		N/A		
	d) Energy of discharge not exceeding 350 mJ		N/A		
9.1.1.3	Test with test finger and test probe		N/A		
9.1.2	No hazardous live shafts of knobs, handles or levers		N/A		
9.1.3	Ventilation holes and other holes tested by means of 4 mm x 100 mm test pin		N/A		
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032		N/A		
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032		N/A		
9.1.5	Pre-set controls tested with 2.5 mm x 100 mm test pin (10 N); test probe C of IEC 61032		N/A		
9.1.6	Withdrawal of the mains plug		N/A		
	No shock hazard due to stored charge after 2 s:		N/A		
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited		N/A		

10	INSULATION REQUIREMENTS No electric shock hazards exist in the equipment	N/A
10.2	Insulation resistance (M Ω) at least 2 M Ω min. after surge test for basic and 4 M Ω min. for reinforced insulation	N/A
10.3	Humidity treatment 48 h or 120 h:	N/A
10.4	Insulation resistance and dielectric strength	N/A
	Between parts of different polarity directly connected to the mains	N/A
	Between parts separated by BASIC or SUPPLEMENTARY insulation	N/A
	Between parts separated by REINFORCED insulation	N/A

11	FAULT CONDITIONS	Р
----	------------------	---

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If C is not greater than 0,1µF no test needed

a) Test probe 11 of IEC 61032 for 10 s (50 N)

No hazard after removing a cover by hand

c) 30 mm diameter test tool for 5 s (100 or 250 N)

Resistance to external force

b) Test hook of fig. 4 for 10 s (20 N)



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		IEC 60065	
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
11.1	No shock hazard under fault condition	No electric shock hazards exist in the equipment	Р
11.2	Heating		Р
11.2.1	Requirements		Р
	No danger of fire to the surroundings		Р
	Safety not impaired by abnormal heat		Р
	Flames extinguish within 10 seconds	No flames	N/A
	No hazard from softening solder	No softening solder	N/A
	Soldered terminations not used as protective mechanism	See above	N/A
11.2.2	Measurement of temperature rises	(see appended table 11)	Р
11.2.3	Temperature rise of accessible parts	(see appended table 11)	Р
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation		N/A
11.2.5	Temperature rise of parts acting as a support or mechanical barrier		Р
11.2.6	Temperature rise of windings		N/A
11.2.7	Printed boards		Р
	Temperature rise does not exceed the limits of table 3 or exceed the limits of table 3 by max. 100 K for max. 5 min		Р
	a) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ²		N/A
	b) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm² for a maximum of 5 min		N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted		N/A
	Class I protective earthing maintained		N/A
11.2.8	Temperature rise of parts not subject to the limits of 11.2.2 to 11.2.7 shall not exceed the limits in table 3, item e), "Fault conditions".		N/A

12	MECHNICAL STRENGTH	
	No hazardous live or moving part exist in the equipment	
12.1	Complete apparatus	Р
12.1.1	The apparatus have adequate mechanical strength	Р



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N/A

IEC 60065					
Clause	Requirement + Test	Result - Remark	Verdic		
12.1.2	Bump test where mass >7 kg	Less than 7kg	N/A		
12.1.3	Vibration test		N/A		
12.1.4	Impact hammer test		N/A		
	Steel ball test		N/A		
12.1.5	Drop test for portable apparatus where mass ≤ 7 kg		Р		
12.1.6	Thermoplastic enclosures stress relief test		Р		
12.2	Fixing of knobs, push buttons, keys and levers		N/A		
12.3	Remote controls with hazardous live parts		N/A		
12.4	Drawers (pull test 50 N, 10 s)		N/A		
12.5	Antenna coaxial sockets providing isolation		N/A		
12.6	Telescoping or rod antennas		N/A		
12.6.1	6,0mm diameter end		N/A		
	Prevented from falling into the apparatus		N/A		
12.6.2	Physical securement, removal prevented		N/A		
12.7	Apparatus containing coin / button cell batteries		N/A		
12.7.2	Reduced possibility for children to remove battery		N/A		
12.7.3	Tests		N/A		
12.7.3.2	Stress relief test		N/A		
12.7.3.3	Battery replacement test		N/A		
12.7.3.4	Drop test		N/A		
12.7.3.5	Impact test		N/A		

13	CLEARANCES AND CREEPAGE DISTANCES No hazardous live part exist in the equipment and only function insulation used	
13.1	Clearances in accordance with 13.3	N/A
	Creepage distances in accordance with 13.4	N/A
13.2	Determination of working voltage	N/A
13.3	Clearances	N/A
13.3.1	Comply with 13.3 or Annex J	N/A
13.3.2	Circuits conductively connected to the mains comply with table 8 and, where applicable, table 9:	N/A
13.3.3	Circuits not conductively connected to the mains comply with table 10	N/A
13.3.4	Measurement of transient voltages	N/A

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12.7.4

Battery not accessible; or not removable



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	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict
13.4	Creepage distances not less than appropriate table		N/A

Clause	Requirement + Test	Result - Remark	Verdict
		1	
13.4	Creepage distances not less than appropriate table 11 minimum values		N/A
13.5	Printed boards		N/A
13.5.1	Conductors complying with pull-of and peel strength requirements, one of which may be conductively connected to the mains, as in fig. 10	Certified PCB used	N/A
13.5.2	Type B coated printed circuit boards complying with IEC 60664-3 (basic insulation only)		N/A
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4		N/A
	Conductive parts along reliably cemented joints comply with 8.8		N/A
	Temperature cycle test and dielectric strength test		N/A
	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety		N/A
13.7	Enclosed, enveloped or hermetically sealed parts not conductively connected to the mains, clearances and creepage distances as in table 12		N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8		N/A

14	COMPONENTS		Р
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2ANNEX 5		Р
14.2	Resistors		N/A
	Resistors separately approved:	No such resistors	N/A
	a) Resistors between hazardous live parts and accessible metal parts		N/A
	b) Resistors, other than between hazardous live parts and accessible parts		N/A
14.3	Capacitors and RC units		N/A
	Capacitors separately approved :	No such capacitors	N/A
14.3.1	Damp heat test duration 21 days		N/A
14.3.2	Y capacitors tested to IEC 60384-14:2005:		N/A
14.3.3	X capacitors tested to IEC 60384-14:2005:		N/A
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2:	No such capacitors	N/A



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IEC 60065 Clause Requirement + Test Result - Remark Verdict 14.3.6 Capacitors with volume exceeding 1750 mm³, where N/A short-circuit current exceeds 0,2 A: compliance with IEC 60384-1, 4.38 category B or better: Capacitors with volume exceeding 1750 mm³, N/A mounted closer to a potential ignition source than table 13 permits: compliance with IEC 60384-1, 4.38 category B or better: 14.4 Inductors and windings N/A 14.4.1 No such inductors or windings N/A Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.2.5 Transformers and inductors separately approved .: N/A N/A 14.4.2 Transformers and inductors marked with manufacturer's name and type: 14.4.3 General N/A N/A Insulation material complies with clause 20.2.5 14.4.4 Constructional requirements N/A 14.4.4.1 Clearances and creepage distances comply with N/A clause 13 14.4.4.2 Transformers meet the constructional requirements N/A 14.4.5 Separation between windings N/A 14.4.5.1 N/A Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation): Coil formers and partition walls > 0,4 mm N/A 14.4.5.2 N/A Class I transformers, with basic insulation and protective screening only if all 7 conditions are met 14.4.5.3 N/A Separating transformers with at least basic insulation 14.4.6 Insulation between hazardous live parts and accessible parts N/A 14.4.6.1 N/A Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation) Coil formers and partition walls > 0,4 mm N/A 14.4.6.2 Class I transformers have adequate insulation N/A between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal Winding wires connected to protective earth have N/A adequate current-carrying capacity



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	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	Verdict
14.5	High voltage components and assemblies (U > 4k	xV peak)	N/A
14.5.1	Component meets category V-1 of IEC 60695-11-10	No such high voltage components	N/A
14.5.2	High voltage transformers and multipliers		N/A
14.5.3	High voltage assemblies and other parts		N/A
14.6	Protective devices		N/A
14.6.1	Protective devices used within their ratings		N/A
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened		N/A
14.6.2	Thermal releases		N/A
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4	No such thermal releases	N/A
14.6.2.2	a) Thermal cut-outs separately approved		N/A
	b) Thermal cut-outs tested as part of the submission		N/A
14.6.2.3	a) Thermal links separately approved		N/A
	b) Thermal links tested as part of the submission		N/A
14.6.2.4	Thermal devices re-settable by soldering		N/A
14.6.3	Fuses and fuse holders		N/A
14.6.3.1	Fuse-links in the mains circuit according to IEC 60127		N/A
14.6.3.2	Correct marking of fuse-links adjacent to holder:		N/A
14.6.3.3	Not possible to connect fuses in parallel		N/A
14.6.3.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool:		N/A
14.6.4	PTC thermistors comply with IEC 60730-1:2010		N/A
	PTC devices (>15 W) category V-1 or better		N/A
14.6.5	Circuit protectors have adequate breaking capacity and their position is correctly marked		N/A
14.7	Switches		N/A
14.7.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - For CRT TV's, make and break speed independent of speed of actuation - V-0 or compliance with G.1.1	Only secondary function switch used, controlling current <0.2A and voltage <24Vdc	N/A
14.7.1 b)	Tested in the apparatus		N/A



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	IEC 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,		N/A	
	14.6.4 and V-0 or G.1.1 Switch controlling > 0.2A with open contact voltage < 35 V (peak) / 24 V dc complying with 14.6.3 and V-0 or G.1.1		N/A	
	Switch controlling ≤ 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.6.4 and V-0 or G.1.1		N/A	
14.7.2	Switch tested to 14.7.1 b) checked according to IEC 61058-1 clause 13.1 and 10 000 operation test		N/A	
14.7.3	Switch tested to 14.7.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use		N/A	
14.7.4	Switch tested to 14.7.1 b) has adequate dielectric strength		N/A	
14.7.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1		N/A	
14.8	Safety interlocks according to 2.8 of IEC 60950-1	No safety interlock	N/A	
14.9	Voltage setting device and the like are not likely to be changed accidentally		N/A	
14.10	Motors		N/A	
14.10.1	a) Endurance test on motors	No such motors	N/A	
	b) Motor start test		N/A	
	Dielectric strength test		N/A	
14.10.2	Not adversely affected by oil or grease etc.		N/A	
14.10.3	Protection against moving parts		N/A	
14.10.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B		N/A	
14.11	Batteries		Р	
14.11.1	Comply with IEC 62133 if applicable		Р	
	Batteries mounted with no risk of accumulation of flammable gases		Р	
14.11.2	No possibility of recharging user replaceable non- rechargeable batteries		N/A	
14.11.3	Recharging currents and times within manufacturers limits		Р	



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	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict

Clause	Requirement + Test	Result - Remark	verdict
	Lithium batteries discharge and reverse currents within the manufacturers limits		Р
14.11.4	Battery mould stress relief		N/A
14.11.5	Battery drop test		N/A
14.12	Optocouplers		N/A
	Comply with constructional requirements of clause 8	Not used	N/A
	External clearances and creepage comply with 13.1		N/A
	Compound completely filling the casing or internal clearances and creepage comply with 13.1:		N/A
	a) Complies with 13.6 (jointed insulation) and N.3.2		N/A
	b) Complies with IEC 60747-5-5:2007		N/A
	c) Complies with 13.8		N/A
14.13	Surge suppression varistors		N/A
	Comply with IEC 61051-2	No such varistor	N/A
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus		N/A
	GDT bridging basic insulation complies with electric strength and distance requirements		N/A
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13		N/A

15	TERMINALS		N/A
15.1	Plugs and sockets		N/A
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	Not directly connected to the mains	N/A
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets		N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets		N/A
15.1.2	Design of connectors other than for mains power		N/A
	Design of sockets with symbol of 5.3 b) design		N/A
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus		N/A
15.2	Provision for protective earthing		N/A
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Not directly connected to the mains	N/A

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	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict
	Protective earth conductors correctly fixed and coloured		N/A
	Separate protective earth terminal near mains terminal and comply with 15.3		N/A
	Protective earth terminal resistant to corrosion		N/A
	Earth resistance test: < 0,1 Ω at 25 A		N/A
15.3	Terminals for external flexible cords and for perm mains supply	nanent connection to the	N/A
15.3.1	Adequate terminals for connection of permanent wiring	No such terminals	N/A
15.3.2	Reliable connection of non-detachable cords	Not directly connected to the mains	N/A
	Not soldered to conductors of a printed circuit board		
	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	Conductors adequately fixed (two independent fixings)		N/A
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area		N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16	No such terminals	N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure	No such terminals	N/A
	Terminals designed to avoid conductor slipping out when tightened		N/A
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)		N/A
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic		N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other		N/A
	Terminals located and shielded: test with 8 mm strand		N/A
15.4	Devices forming a part of the mains plug		N/A



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Clause	Requirement + Test	Result - Remark	Verdict	
15.4.1	No undue strain on mains socket-outlets	This apparatus is not devices forming a part of the mains plug	N/A	
15.4.2	Device complies with standard for dimensions of mains plugs		N/A	
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N/A	

16	EXTERNAL FLEXIBLE CORDS		N/A
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords	Not directly connected to the mains	N/A
	Non-detachable cords for Class I have green/yellow core for protective earth		N/A
16.2	Mains cords conductors have adequate cross- sectional area for rated current consumption of the equipment		N/A
16.3	Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages comply with a) and b)		N/A
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions	No such cable provided	N/A
16.5	Adequate strain relief on external flexible cords	Not directly connected to the mains	N/A
	Not possible to push cord back into equipment		N/A
	Strain relief device unlikely to damage flexible cord		N/A
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use		N/A
16.7	Transportable apparatus have appliance inlet according to IEC 60320-1 or means of stowage to protect the cord	No such equipment	N/A

17	ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS	
	No hazardous live part exist in the equipment	



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	IEC 60065				
Clause	Requirement + Test	Result - Remark	Verdict		
17.1	Table 20 torque test metal thread, 5 times:		N/A		
	Table 20 torque test non-metallic thread, 10 times:		N/A		
17.2	Correct introduction into female threads in non- metallic material		N/A		
17.3	Cover fixing screws captive or no hazard when replaced by a screw whose length is 10 times its diameter		N/A		
17.4	No loosening of conductive parts carrying a current > 0,2 A		N/A		
17.5	Contact pressure not transmitted through insulating material other than ceramic for connections carrying a current > 0,2 A		N/A		
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder		N/A		
17.7	Cover fixing devices have adequate strength and their positioning is unambiguous		N/A		
17.8	Fixing means for detachable legs or stands provided		N/A		
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected		N/A		

18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		N/A
18.1	Comply with IEC 61965 or 18.2	No picture tube used	N/A
18.2	Non-intrinsically protected tubes		N/A

19	STABILITY AND MECHANICAL HAZARDS		Р
19.1	Apparatus > 7kg have adequate stability or is required to be fastened in place and provided with the warning of 5.5.2 f):	Less than 7kg	N/A
19.2	Test at 10° to the horizontal		N/A
19.3	Vertical force test 100 N applied downwards		N/A
19.4	Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability		N/A
19.5	Edges or corners not hazardous	Edges and corners are smooth and rounded	Р
19.6	Mechanical strength of glass		N/A



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Clause	Requirement + Test	Result - Remark	Verdict
19.6.1	Glass surfaces (exc.laminated) with an area exceeding 0,1 m² or major dimension > 450 mm, pass the test of 12.1.4	No such glass	N/A
19.6.2	Fragmentation test		N/A
19.7	Wall or ceiling mounting means		N/A
19.7.1 - 19.7.3	Not dislodged and remain mechanically intact after test according to 19.7.2 Test 1, Test 2 or Test 3:	No such mounting applied for	N/A

20	RESISTANCE TO FIRE		Р
20.1	Start and spread of fire is prevented		Р
20.2	Electrical components and mechanical parts		Р
20.2.1	a) Exemption for components contained in an enclosure of material V-0 to IEC 60695-11-10 with openings not exceeding 1 mm in width		N/A
	b) Exemption for small components		Р
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		Р
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2	No working voltages > 4 kV	N/A
20.2.4	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC 60695-11-10, unless used in a fire enclosure	Not such voltage exceeding 50V within this apparatus	N/A
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60695-11-10.	As above.	N/A
20.2.5	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21	No potential ignition source in the equipment	N/A
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A
	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure		N/A

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Clause	Requirement + Test	Result - Remark	Verdict

20.3	Fire enclosure	N/A
20.3.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1	N/A
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled	N/A
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure	N/A

ANNEX A	ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER		N/A
A.5	Marking and instructions		N/A
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply	IP20, not applied	N/A
A.10	Insulation requirements		N/A
A.10.3	Splash and humidity treatment		N/A
A.10.3.1	The enclosure provide adequate protection against splashing water	t	N/A
A.10.3.2	Complies with 10.3, duration of the test is 168h		N/A

ANNEX B	APPARATUS TO BE CONNECTED TO TELECOMUNICATION THE TELECOMMUNICATION NETWORKS		N/A
	Complies with IEC 62151 clause 1	EUT not intended for connection to telecommunication networks	N/A
	Complies with IEC 62151 clause 2		N/A
	Complies with IEC 62151 clause 3 modified		N/A
	Complies with IEC 62151 clause 4 modified		N/A
	Complies with IEC 62151 cause 5 modified		N/A
	Complies with IEC 62151 clause 6		N/A
	Complies with IEC 62151 clause 7		N/A
	Complies with IEC 62151 annex A, B and C		N/A

ANNEX L	ADDITIONAL REQUIREMENTS FOR ELECTRONIC FLASH APPARATUS FOR PHOTOGRAPHIC PURPOSES		N/A
L.5	Marking and instructions		N/A
L.5.5.1	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used	No such apparatus	N/A



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



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	IEC 60065			
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7.1		TABLE	: Heatin	g Tes	t						Р
		Ambie	nt (°C)			See below			_		
		Louds	peaker i	mpeda	ance	(Ω)			4Ω *1		_
Cond.	U _n (V)	Hz	I _n (A)	P _n (W)	U _{out} (V)	P _{out} (W)	Operating Condition	n / Status	
No. 1	5.0		0.32	1.6	60				Empty battery cha Bluetooth mode, w to 1/8 of maximum power.		
No. 2	3.7		0.15	0.5	56				Battery discharging: Bluetooth mode, with 1KHz signal input o 1/8 of maximum non-clipped output power.		
Test c	onditio	n No.					dT (ł	()		_	-
Therm	ocoupl	e Locati	ons			No. 1			No. 2	Limit d	T (K)
PCB n	ear U1				23.7			25.5	75	;	
PCB n	ear U2					26.1			28.3	75	;
C1 boo	dy					19.6		20.7		60)
Interna	al wire					14.4		15.9		35	;
Battery surface				11.8		13.1		30)		
Plastic enclosure inside			8.9			9.2		40)		
Plastic enclosure outside			6.6		7.5		40)			
Ambie	nt					25.2°C		25.4°C			

Supplementary information:

With specified max. ambient temperature 45°C, limits applied as specified for components or materials.

TABLE: Heating test, resistance method	TABLE: Heating test, resistance method					
Test condition No.	:			_		
Ambient, t ₁ (°C)	:			_		
Ambient, t ₂ (°C)	:					

Temperature rise of winding	R ₁ (Ω)	R ₂ (Ω)	ΔT (K)	Max. dT (K)	Insulation class
Supplementary information:					



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

10.4	TABLE: Dielectric Strength				
Test voltage applied between:		Test potential applied (V)	Breakdown / flashover (Yes/No)		
Basic/supple	ementary:				
Reinforced:					
Supplement	ary information:				

10.4	TABLE: Insulation Resistance Measurements					
Insulation	resistance R between:	R (MΩ)	Required R (MΩ)			
Basic/supp	olementary:					
Reinforced	l:					
Supplemen	ntary information:					

11	-	TABLE:	Fault Cond	itions		Р
No.	Comp	ponent	Fault	dT (K) / Component	Test conditions, test dura	tion, test
1.	Speal	ker	Max non clipped output	28.6K/ PCB near U1 24.1K / Enclosure inside 25.3°C / Ambient	Result: The unit was norma operation, no higher temper exceeding its limit occurred. Test time: 1h30mins;	rature rise
2.	Speal	ker	S-C		Result: The unit was normal operation except speak not higher temperature rise exclimit occurred; Test time: 1h50mins;	sound, no



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	IEC 60065									
Clau	Clause Requirement + Tes		se Requirement + Test R		Verdict					
3.	R3	S-C		Result: The unit was nor operation, no hazards; Test time: 10mins;	mal					
4.	C1	S-C		Result: The unit was nor operation, no hazards; Test time: 10mins;	mal					
5.	D2	S-C		Result: The unit was nor operation, no hazards; Test time: 10mins;	mal					
6.	Battery	S-C		Result: Unit cannot be w normally. No hazardous, Test duration: 10mins						

Supplementary information:

- S-C=short circuit.
- Plastic enclosure outside limit: 55K; PCB limit: 100K;

13	TABLE: CI	earance And C	And Creepage Distance Measurements						
Rated supply voltage:		Pollution degree:			Material				
2 N force on	internal parts	applied:							
30 N force or	outside of c	onductive enclo	sure applied	l:					
Location			Operating	g Voltage	Clearan	Clearance (mm)		Creepage (mm)	
			V peak	V rms	Min	Actual	Min	Actual	
Basic insula	tion:	·							
Reinforced i	nsulation:						•		
Supplementa	supplementary information:								



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14	TABLE: Critical com	ponents informa	tion			Р	
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard		ark(s) of onformity ¹⁾	
PCB	Shenzhen Dingcheng Yixin Co., Ltd.	FR4	V-0, 130°C	UL 94, UL 796	UL		
Alternative	Interchangeable	Interchangeable	V-0, 130°C or better	UL 94, UL 796	UL		
Plastic enclosure	Shenzhen hengshengxin precision plastic mould co., LTD	PS	V-0, 85°C; Min. thickness: 1.5mm	UL 94, UL 746C	UL		
Speaker	BUS ONLINE	YDJ1115-109- 63	4Ω, Max.1.8W	IEC/EN 60065	Teste applia	ed with ance	
Internal wire	Interchangeable	Interchangeable	300Vac, 22AWG, 80°C, VW-1	UL 758	UL		
Li-ion battery	Shenzhen Weiliyuan Electronics Co., Ltd.	602040	3.7Vdc, 400mAh	IEC/EN 62133	CE		

Supplementary information:

¹⁾ Provided evidence ensures the agreed level of compliance.



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Attachment No. 1

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	Attachment No. 1					
IEC 60065						
Clause	Requirement + Test	Result - Remark	Verdict			

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

(AUDIO, VIDEO AND SIMILAR ELECTRONIC APPARATUS - SAFETY REQUIREMENTS)

Differences according to EN 60065:2014

Attachment Form No. EU_GD_IEC60065M
Attachment Originator Intertek Semko AB
Master Attachment Date 2015-03

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	CENELEC COMMON MOD	DIFICATIONS	(EN)			
General	1.1.3 Note 2	5.4	Note	5.5.2	Note 1 and Note 2	
	13.3.1 Note 4	14.1	Note 1 a Note 2	nd 15.1.1	Note 1 and Note 2	
	15.2 Note 2	16.1	Note 2	16.2	Note	
	20 Note	J.3 Table J.1	Note 1 a Note 2	nd		
1.2	Normative references					
	Add the following: EN 71-1, Safety of toys – F physical properties EN 50332-1, Sound system Headphones and earphone personal music players – N pressure level measureme. 1: General method for "one EN 50332-2, Sound system Headphones and earphone personal music players – N pressure level measureme. 2: Matching of sets with he both are offered separately package equipment but wit connectors between the tw components of different ma different design	n equipment: es associated Maximum soun nt methodolog e package equi n equipment: es associated Maximum soun nt methodolog adphones if ei r, or are offere th standardise o allowing to o	with od ly – Part ipment" with ly – Part ither or d as one d	No such equipme	ent	N/A



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Attachment No. 1

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IEC 60065						
Clause	Requirement + Test	Result - Remark	Verdict			

3	General requirements		
3.Z1		ot directly connected to the ains	N/A
4	General test conditions		
4.1.1	Replace the text of the note by: NOTE For ROUTINE TEST, reference is made to EN 50514:2008.		



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Clause	Requirement + Test		Result - Remark		Verdict		

6	Hazardous radiations	
6.1	Replace the entire subclause by the following: Apparatus including a potential source of ionizing radiation shall be so constructed that personal protection against ionizing radiation is provided under normal operating conditions and under fault conditions. Compliance is checked by measurement under the following conditions: In addition to the normal operating conditions, all controls adjustable from the outside BY HAND, by any object such as a tool or a coin, and those internal adjustments or pre-sets which are not locked in a reliable manner, are adjusted so as to give maximum radiation whilst maintaining an intelligible picture for 1 h, at the end of which the measurement is made. NOTE 1 Soldered joints and paint lockings are examples of adequate locking. The dose-rate is determined by means of a radiation monitor with an effective area of 10 cm², at any point 10 cm from the outer surface of the apparatus Moreover, the measurement shall be made under fault conditions causing an increase of the high-voltage, provided an intelligible picture is maintained for 1 h, at the end of which the measurement is made. The dose-rate shall not exceed 1 µSv/h (0,1 mR/h) taking account of the background level. NOTE 2 These values appear in Council Directive 96/29/Euratom of 13 May 1996. A picture is considered to be intelligible if the following conditions are met: - a scanning amplitude of at least 70 % of the usable screen width; - a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator; - a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;	N/A
16	- not more than one flashover per 5 min. External flexible cords	
		NI/A
16.1	Add the following note after the first paragraph: NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD. Not directly connected to the mains	N/A
Z1	Protection against excessive sound pressure from personal music players	Р



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Attachment No. 1

•	Attachment No. 1				
	IEC 60065				
Clause	Requirement + Test	Result - Remark	Verdict		
Z1.1	General This subclause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. Requirements for earphones and headphones intended for use with personal music players are also covered. A personal music player is a portable equipment for personal use, that: - is designed to allow the user to listen to recorded or broadcast sound or video; and - uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and - is body worn (of a size suitable to be carried in a clothing pocket) and is intended for the user to walk around while in use. EXAMPLES CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment. A personal music player shall comply with the requirements of this subclause. NOTE 1 Protection against acoustic energy sources from telecom terminal equipment is referenced to ITU-T Recommendation P.360. The requirements in this subclause are valid for music or video mode only. The requirements do not apply to: - professional equipment; NOTE 2 Professional equipment is equipment sold through special sales channels. All products sold through normal electronics stores are considered not to be professional equipment. - hearing aid equipment and other devices for assistive listening; - the following types of analogue personal music players: • long distance radio receiver (for example, a multiband radio receiver or a world band radio receiver, an AM radio receiver) and • cassette player/recorder; NOTE 3 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. - player while connected to an external amplifier that does not allow the user to walk around while in use. For equipment clearly designed or intended for use by young children, the limits of EN 71-1		P		
	apply.				
Z1.2	Equipment requirements		Р		
	No safety provision is required for equipment that				



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	Attachment No. 1		
	IEC 60065		
Clause	Requirement + Test	Result - Remark	Verdict
	complies with the following:		
	 equipment provided as a package (personal music player with its listening device), where the acoustic output L_{Aeq,T} is ≤ 85 dB(A) measured while playing the fixed "programme simulation noise" as described in EN 50332-1; and 		
	 personal music player provided with an analogue electrical output socket for a listening device, where the electrical output is ≤ 27 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" as described in EN 50332-1. NOTE 1 Wherever the term acoustic output is used in this subclause, the 30 s A-weighted equivalent sound pressure level LAeq.T is meant. See also Z1.5 and Annex ZE. All other equipment shall: a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and b) have a standard acoustic output level not exceeding those mentioned above, and automatically return to an output level not exceeding those mentioned above when the 		
	power is switched off; and c) provide a means to actively inform the user of the increased sound pressure when the equipment is operated with an acoustic output exceeding those mentioned above. Any means used shall be acknowledged by the user before activating a mode of operation which allows for an acoustic output exceeding those mentioned above. The acknowledgement does not need to be repeated more than once every 20 h of cumulative listening time; and NOTE 2 Examples of means include visual or audible signals. Action from the user is always required. NOTE 3 The 20 h listening time is the accumulative listening time, independent how often and how long the personal music player has been switched oft.		
	 d) have a warning as specified in Z1.3; and e) not exceed the following: 1) equipment provided as a package (player with its listening device), the acoustic output shall be ≤ 100 dB(A) measured while playing the fixed "programme simulation noise" described in EN 50332-1; and 		
	2) a personal music player provided with an analogue electrical output socket for a listening device, the electrical output shall be ≤ 150 mV measured as described in EN 50332-2, while playing the fixed "programme simulation noise" described in EN 50332-1.		
	For music where the average sound pressure (long term $L_{Aeq,T}$) measured over the duration of the song is lower than the average produced by the programme simulation noise, the warning does not need to be given as long as the average sound pressure of the song does not exceed the basic limit of 85 dB(A). In this case, T becomes		



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Y	Attachment No. 1		
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Clause	Requirement + Test	Result - Remark	Verdict
	the duration of the song. NOTE 4 Classical music typically has an average sound pressure (long term LAeq,T) which is much lower than the average programme simulation noise. Therefore, if the player is capable 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 dB(A). NOTE 5 For example, if the player is set with the programme simulation noise to 85 dB(A), but the average music level of the song is only 65 dB(A), 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 dB(A).		
Z1.3	The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following: - the symbol of Figure Z1 with a minimum height of 5 mm; and - the following wording, or similar: To prevent possible hearing damage, do not listen at high volume levels for long periods. Figure Z1 – Warning label (IEC 60417-6044) Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.		P
Z1.4	Requirements for listening devices (headphone	es, earphones, etc.)	
Z1.4.1	Corded passive listening devices with analogue input With 94 dB(A) sound pressure output L _{Aeq,T} , the input voltage of the fixed "programme simulation noise" described in EN 50332-2 shall be ≥ 75 mV. This requirement is applicable in any mode where the headphones can operate including any available setting (for example built-in volume level control, an additional sound feature like equalization, etc.). NOTE The values of 94 dB(A) − 75 mV correspond with 85 dB(A) − 27 mV and 100 dB(A) − 150 mV.	No such device	N/A



Z1.5

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Clause	Requirement + Test	Result - Remark	Verdict
Z1.4.3	Cordless listening devices		N/A
211110	In wireless mode:		1471
	 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 $L_{Aeq,T}$ of the listening device shall

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. NOTE Test method for cordless equipment provided without

be \leq 100 dB(A).

Measurement methods

listening device should be defined.

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

Ρ

ZA	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH	_	
	THEIR CORRESPONDING EUROPEAN PUBLICATIONS		

ZB	ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)		
2.6.1	Denmark The following is added: Certain types of Class I apparatus, see 15.1.1, may be provided with a plug not establishing earthing continuity when inserted in Danish socket-outlets Justification: Heavy Current Regulations, Section 6c	Not directly connected to the mains	N/A



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Attachment No. 1					
	IEC 60065				
Clause	Requirement + Test	Result - Remark	Verdict		
3.Z1	Denmark Add to the end of the subclause Due to many existing installations where the socket-outlets can be protected with fuses with higher rating than the rating of the socket-outlets the protection for pluggable equipment type A shall be an integral part of the equipment. Justification: In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.	Not directly connected to the mains	N/A		
5.4	Denmark, Finland, Norway and Sweden To the end of the subclause the following is added: CLASS I apparatus which is intended for connection to the building installation wiring via a plug or an appliance coupler, or both and in addition is intended for connection to other apparatus or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network TERMINALS and ACCESSIBLE parts, have a marking stating that the apparatus must be connected to an earthed MAINS socket-outlet. The marking text in the applicable countries shall be as follows: In Denmark: "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord." In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan" In Norway: "Apparatet må tilkoples jordet stikkontakt" In Sweden: "Apparaten skall anslutas till jordat uttag"		N/A		



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



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IEC 60065				
Clause	Requirement + Test	Result - Remark	Verdict	
13.3.1	Norway Add to the second paragraph the following: Due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault. Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided		N/A	
15.1.1	Denmark To the first paragraph the following is added: In Denmark, supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1. Appliances of Class I provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug which assure earth continuity with the socket-outlet in accordance with DS 60884-2-D1. If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-1. To the second paragraph the following is added: Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a. Other current rating socket outlets shall be in compliance with DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-1c. To the third paragraph the following is added: Mains socket-outlets with earthing contact shall be in compliance with DS 60884-2-D1, Standard sheet DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a Justification: Heavy Current Regulations, Section 6c		N/A	
15.1.1	Ireland Apparatus which is fitted with a flexible cable or cord shall be provided with a plug in accordance with Statutory Instrument 525: 1997, "13 A Plugs and Conversion Adapters for Domestic Use Regulations: 1997. Justification: SI 525: 1997		N/A	



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IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	'		
15.1.1	Norway Mains socket-outlets mounted on Class II apparatus shall comply with the specifications given in CEE Publ. 7 as far as applicable, with the following amendments: § 8 Dimensions a) 2,5 A 250 V two-pole socket-outlets for electronic apparatus shall comply with the enclosed Standard Sheet I. STANDARD SHEET I 2,5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II Dimensions in mm Other dimensions according to CEE Publication 7 Standard Sheet I "Portable Single-Way Socket-Outlets". § 24 Mechanical strength a) 2,5 A, 250 V socket-outlets for Class II electronic apparatus are tested as specified in EN 60065:2014, 12.1.3. Also the protecting rim shall be tested. Justification:		N/A
	Act of 24 May 1929 relating to supervision of		
	electrical installation (TEA 1929/FEL 1998).		
15.1.1	United Kingdom Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug shall be fitted with a "standard plug" in accordance with Statutory Instrument 1768: 1994: The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those Regulations. NOTE "Standard plug" is defined in SI 1768:1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. Justification: SI 1768: 1994	Not directly connected to the mains	N/A
Annex B	Finland, Norway and Sweden		N/A
	All sub clauses given below are sub clauses of IEC 62151 (ref. corrigenda 1 and 2 to IEC 62151). Subclause 4.1.1 (corrigendum 2): Add after the first paragraph:		
	NOTE In Finland, Norway and Sweden, CLASS I equipment which is intended for		

Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China



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Clause	Requirement + Test	Result - Remark	Verdict
	connection to the building installation via a non-industrial plug or a non-industrial appliance coupler, or both and in addition is intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and ACCESSIBLE parts, has a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows:		

In Finland: "Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan "

In Norway: "Apparatet må tilkoples jordet stikkontakt"

In Sweden: "Apparaten skall anslutas till jordat uttag"

Subclause 4.1.4 (corrigendum 1)

Add at the end of the subclause:

NOTE In **Norway**, for requirements see 4.1.1, note and 5.3.1, note 1.

Subclause 4.2.1.2 (corrigendum 1)

Add at the end of the subclause:

NOTE 3 In Norway, for requirements see 5.3.1, note 1.

Subclause 4.2.1.3 (corrigendum 2)

Add at the end of the subclause:

NOTE In Norway, for requirements see 4.1.1, note and 5.3.1, note 1.

Subclause 4.2.1.4 (corrigendum 1)

Number the existing note as NOTE 1 and add at the end of the subclause the

following NOTE 2:

NOTE 2 In **Norway**, for requirements see 4.1.1, note and 5.3.1, note 1.

Subclause 5.3.1 (corrigendum 1)

Add after the first test specifications paragraph:

NOTE 1 In Finland, Norway and Sweden, there are additional requirements for

Renumber the existing note as NOTE 2.

For additional requirements for the insulation in Finland, Norway and Sweden in NOTE 1 the following text is added between the first and the second paragraph (this text is identical to the corresponding EN 60950-1:2001):

NOTE 1 In **Finland**, **Norway** and **Sweden**, if this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or

 \bullet one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below

If this insulation forms part of a semiconductor component (e.g. an optocoupler), there is no distance through insulation requirement for the insulation consisting of an insulating compound completely filling the casing, so that CLEARANCES and CREEPAGE DISTANCES do not exist, if the component passes the electric strength test in the accordance with the compliance clause below and in addition:

- passes the test and inspection criteria of 13.6 with an electric strength test of 10.3 using the test voltage of 1,5 kV multiplied by 1,6, and
- is subject to routine testing for electric strength during manufacturing, using a test voltage of 1,5 kV (for performance of the test see N.2.1).

It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.

A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions:

- the insulation requirements are satisfied by having a capacitor classified Y3 as defined by EN 132400, which in addition to the Y3 testing, is tested with an impulse test of 2,5 kV defined in IEC 62151:2000, 6.2.1;
- the additional testing shall be performed on all the test specimens as described in
- the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 in the sequence of tests as described in EN 132400.

Subclause 5.3.2 (corrigendum 1)



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Clause	Requirement + Test	Result - Remark	Verdict		
		•			
	Add after the fourth dash: NOTE In Finland, Norway and Sweden, exclusions are applicable for equipment which is intended for connection to the building installation wiring using screw terminals or other reliable means, and for equipment which is intended for connection to the building installation wiring via an industrial plug and socket -outlet or an appliance coupler, or both, complying with EN 60309 or with a comparable national standard.				
J.2	Norway After Table J.1 the following is added: Due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault. Justification: Based on a use in Norway of an IT power distribution system where the neutral is not provided		N/A		



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Clause Requirement + Test Result - Remark Verdi				

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)	
5.1	Italy	
	The following requirements shall be fulfilled:	
	- The power consumption in Watts (W) shall be indicated on TV receivers and in their instruction for use (Measurement according to IEC 60107-1)	
	NOTE EN 60555-2 has since been replaced by IEC 60107-1:1997.	
	- TV receivers shall be provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.	
	- Marking for controls and terminals shall be in Italian language. Abbreviation and international symbols are allowed provided that they are explained in the instruction for use.	
	- The ECC manufacturers are bound to issue a conformity declaration according to the above requirements in the instruction manual. The correct statement for conformity to be written in the instruction manual, shall be:	
	Questo apparecchio è fabbricato nella CEE nel rispetto delle disposizioni del D.M. marzo 1992 ed è in particolare conforme alle prescrizioni dell'art. 1 dello stesso D.M.	
	- The first importers of TV receivers manufactured outside EEC are bound to submit the TV receivers for previous conformity certification to the Italian Post Ministry (PP.TT).	
	The TV receivers shall have on the backcover the certification number in the following form:	
	D.M. 26/03/1992 xxxxx/xxxxx/S or T or pT	
	S for stereo	
	T for teletext	
	pT for retrofitable teletext	
	Justification:	
	Ministerial Decree of 26 March 1992: National	
	rules for television receivers trade. NOTE The ministerial decree above contains additional, but not safety relevant requirements.	



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Clause	Requirement + Test	Result - Remark	Verdict
6.1	Germany The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. Justification: German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the Council Directive 96/29/Euratom in Germany. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: http://www.ptb.de		N/A
14.1	Sweden The following requirements shall be fulfilled: Switches containing mercury such as thermostats, relays and level controllers are not allowed.	No such switch	N/A

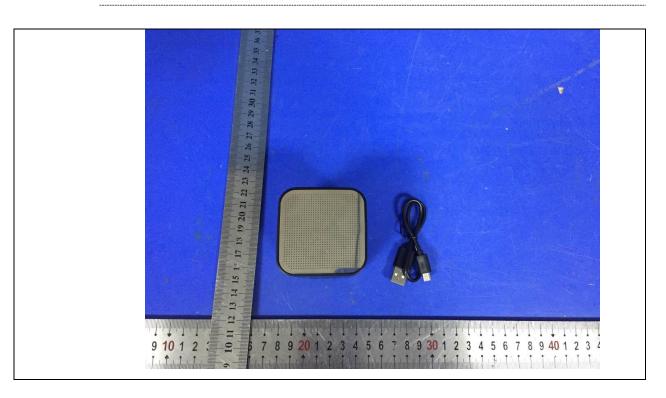


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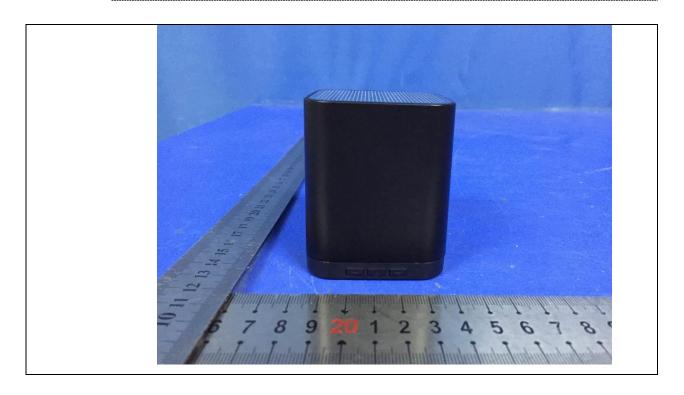
Report No.: LCS181023018AS

Attachment No. 2

External View-1 Details of:



Details of: External View-2





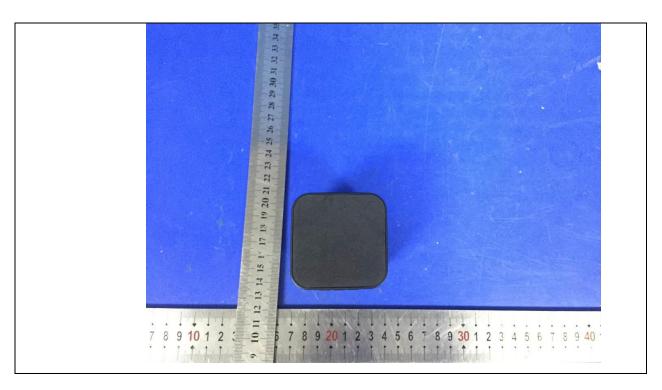
Details of:

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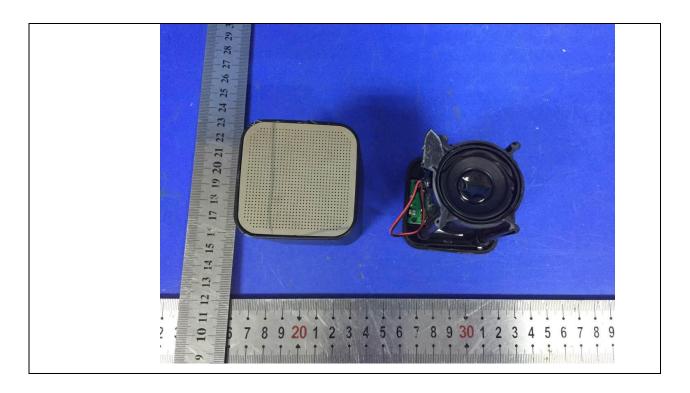
Attachment No. 2

Attachment No

External View-3



Details of: Internal View-1





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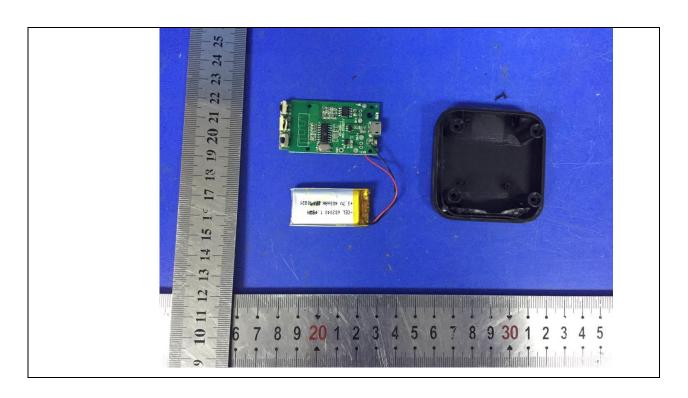
Report No.: LCS181023018AS

Attachment No. 2

Internal View-2 Details of:



Details of: Internal View-3





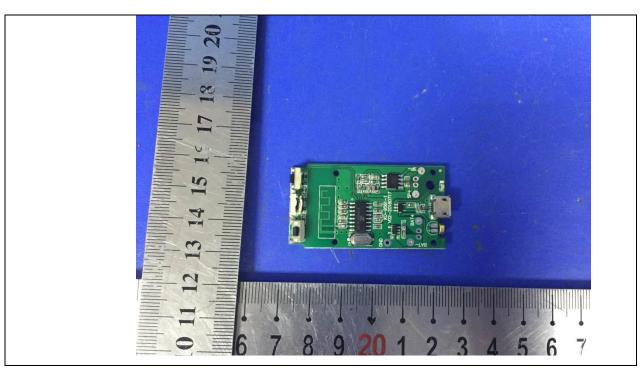
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Attachment No. 2

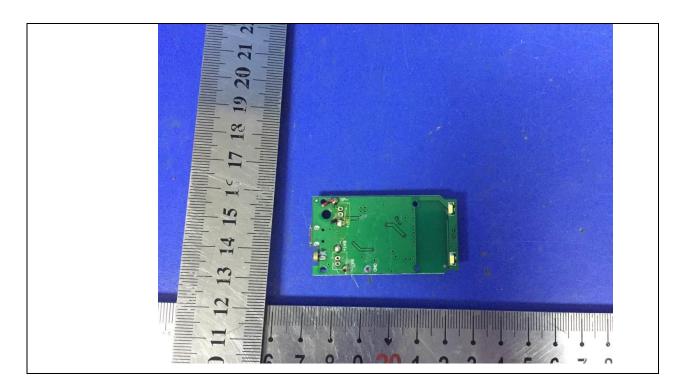
Attachment No. 2

Details of: PCB View-1

Report No.: LCS181023018AS



Details of: PCB View-2



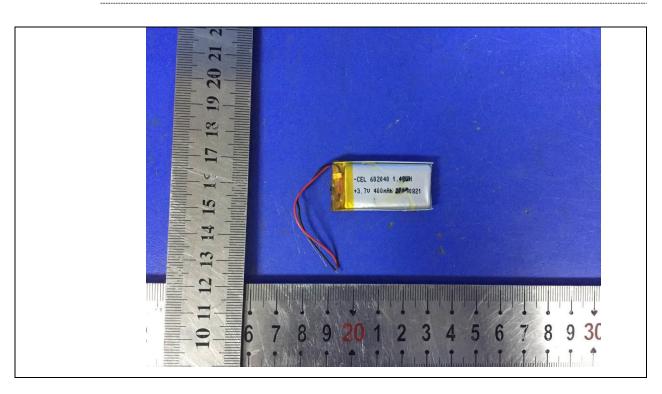


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Details of: Battery View



-----END OF TEST REPORT-----