

# Safety Test Report

Report No.: AGC00924170901ES01

**PRODUCT DESIGNATION** : Waterproof Bluetooth speaker

**BRAND NAME** :

**MODEL NAME** :

**CLIENT** :

**DATE OF ISSUE** : Oct. 25, 2017

**STANDARD(S)** : EN 60065: 2014

**REPORT VERSION:** : V1.0

Attestation of Global Compliance(Shenzhen) Co., Ltd.

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## TEST REPORT

### EN 60065

#### Audio, video and similar electronic apparatus-Safety requirements

Report No. ....: AGC00924170901ES01

Tested by (+ signature) .....: Byron Wang



Reviewed by (+ signature) .....: Jenny Li



 Approved by (+ signature) .....: Matte He  
 (Authorized Officer)



Date of issue .....: Oct. 25, 2017

Contents .....: Total 45 pages

#### Testing laboratory

Name .....: Attestation of Global Compliance (Shenzhen) Co., Ltd.

 Address .....: 2/F., Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu,  
 Xixiang, Bao'an District, Shenzhen, Guangdong, China

Testing location .....: Same as above.

#### Manufacturer

Name .....:

Address .....:

#### Factory

Name .....:

Address .....:

#### Test specification

Standard .....: EN 60065:2014

Test procedure .....: Type test

Procedure deviation .....: N/A

Non-standard test method .....: N/A

#### Test Report Form/blank test report

Test Report Form No. ....: AGC60065A5

TRF originator .....: AGC

Master TRF .....: 2017-01

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**Test item**

Product designation .....: Waterproof Bluetooth speaker

Brand name.....:

Test model .....:

Seris model .....:

Rating(s).....: 5V $\overline{\text{---}}$ , 2.1A

**Test item particulars**

Classification of installation and use .....: Moveable apparatus

Supply Connection .....: Supplied by an USB cable

Degree of protection against ingress of dust and liquid.....: IPX6

**Test case verdicts**

Test case does not apply to the test object .....: N (/A)

Test item does meet the requirement .....: P(ass)

Test item does not meet the requirement .....: F(ail)

**Testing**

Date of receipt of test item .....: Oct. 09, 2017

Date of performance of test .....: Oct. 10, 2017 –Oct. 19, 2017

**Attachments**

Attachment A .....: Photos of product

**General remarks**

This report shall not be reproduced except in full without the written approval of the testing laboratory.

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

“(See remark #)” refers to a remark appended to the report.

“(See appended table)” refers to a table appended to the report.

Throughout this report a comma is used as the decimal separator.

**Report Revise Record:**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct. 25, 2017	Invalid	Original report

#### General product information

The product with model name B79 is a Waterproof Bluetooth speaker, which supplied via an micro-B USB port in charge dock, and built-in a Li-ion rechargeable battery (3.7V, 1200mAh), Which is considered a movable apparatus, and for dry loction used only.

The degree of waterproof is IPX6, refer to IP report No: AGC00924170901SR01.

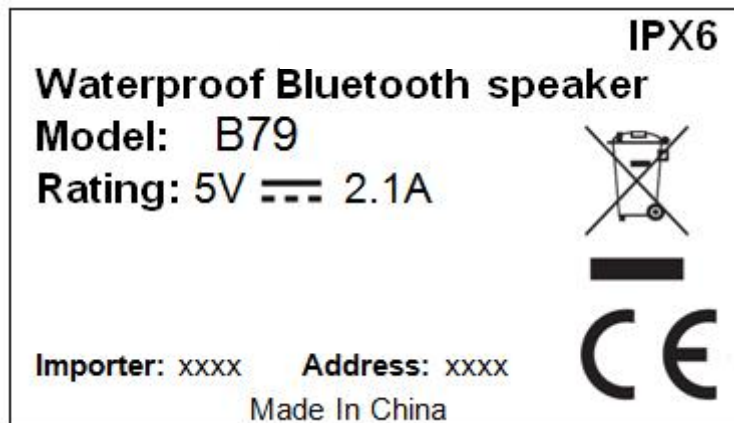
The series models are identical except for brand name and model name due to market purpose, no impact safety,

The product was submitted and tested for use at the manufacturer's recommended ambient temperature (Tma) of 35°C.

#### Summary of testing

The test item passed.

#### Copy of marking plates




#### Remark:

- 1) The CE marking and WEEE symbol (if any) should be at least 5mm and 7mm respectively in height.
- 2) The markings and instructions are the minimum requirements required by safety standard. For final production samples, the additional markings which do not give rise to misunderstanding may be added.
- 3) As declared by the manufacturer, the importer (and manufacturer, if it is different)'s name, registered trade name or mark and the postal address will be marked on the products before being place on the market.
- 4) Marking on the packaging or in a document accompanying the electrical equipment is only acceptable if it is not possible to place such markings on the product.

EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
<b>3</b>	<b>GENERAL REQUIREMENTS</b>		<b>P</b>
	Safety class of the apparatus .....	Supply by an USB cable.	P

<b>4</b>	<b>GENERAL CONDITIONS OF TESTS</b>		<b>P</b>
4.1.4	Ventilation instructions require the use of the test box	According to user manual	P

<b>5</b>	<b>MARKING</b>		<b>P</b>
5.1	General requirements		P
	Comprehensible and easily discernible		P
	Permanent durability against water and petroleum spirit	After rubbing test by water and petroleum spirit, the label still easily discernible, indelible and legible	P
5.2	a) Identification, maker .....	See page 3	P
	b) Model number or type reference .....	See page 3	P
	c) Class II symbol if applicable .....	See page 3	P
	d) Nature of supply .....		N
	e) Rated supply voltage and symbol .....	5V 	P
	f) Frequency if safety dependant .....		N
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use .....	2.1A	P
	Measured current or power consumption .....	(See appended table 7.1)	P
	Deviation %(max 10%) .....		N
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply .....		N
	Measured current or power consumption .....		N
	Measured current or power consumption for Television set .....		N
	Deviation %(max 10%) .....		N
	Symbols explained in the user manual		N
5.3	a) Earth terminal		N
	b) Hazardous live terminals		N
	c) Markings on supply output terminals		N
5.4	Caution marking		

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Clause	Requirement – Test	Result - Remark	Verdict
	a)Use of triangle with exclamation mark		N
	b)marking on loudspeaker grille, IEC 60417-5036		N
	c) User-replaceable coin / button cell battery marking		N
5.5	Instructions		P
5.5.1	Safety relevant information	The relevant information is given in the language acceptable to the country where the apparatus is intended to be used.	P
5.5.2	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.		N
	b)Hazardous live terminals, instructions for wiring		N
	c)Instructions for replacing lithium battery		N
	d)Class I earth connection warning		N
	e)Instructions for multimedia system connection		P
	f) Special stability warning for attachment of the apparatus to the floor/wall	Not fixed apparatus	N
	g)Warning: battery exposure to heat		N
	h)Warning: protective film on CRT face		N
	i) Warning: Non-floor standing TV >7kg		N
	j) Warning: User replaceable coin / button cell battery		N
5.5.3	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings		N
	c) Instruction for permanently connected equipment		N
	Marking, signal lamps or similar for completely disconnection from the mains		N

<b>6</b>	<b>HAZARDOUS RADIATION</b>		<b>P</b>
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)		N
	Ionizing radiation under fault condition		N
6.2	Laser radiation, emission limits to IEC 60825-1:2007 ...		N
	Emission limits under fault conditions		N
6.3	Light emitting diodes (LEDs) according to IEC 62471	LED only used as an indication.	N
<b>7</b>	<b>HEATING UNDER NORMAL OPERATING CONDITIONS</b>		<b>P</b>

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
7.1	General		
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated	(see appended table 7.1)	P
7.1.2	Temperature rise of accessible parts	Ditto	P
7.1.3	Temperature rise of parts providing electrical insulation		N
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier	Ditto	P
7.1.5	Temperature rise of windings		N
7.1.6	Parts not subject to a limit under 7.1.1 to 7.1.4		N
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

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

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
8.7	Components bridging insulation		N
	Basic insulation bridged by components complying with 14.4.5.3		N
	Components bridging basic, supplementary, double or reinforced insulation complying with 14.2 a) or 14.4		N
	Basic and supplementary insulation each being bridged by a capacitor or RC-unit complying with 14.3.2 a)		N
	Double or reinforced insulation being bridged with 2 capacitors or RC-units in series complying with 14.3.2 a)		N
	Double or reinforced insulation being bridged with a single capacitor or RC-unit complying with 14.3.2 b)		N
8.8	Insulation thickness and thin sheet materials		N
	Basic or supplementary insulation > 0,4 mm (mm) :		N
	Reinforced insulation > 0,4 mm (mm) :		N
	Thin sheet material used inside the equipment		N
	Basic or supplementary insulation, at least two layers, each meeting 10.4		N
	Basic or supplementary insulation, three layers any two of which meet 10.4		N
	Reinforced insulation, two layers each of which meet 10.4		N
	Reinforced insulation, three layers any two which meet 10.4		N
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
8.10	Double insulation between accessible parts and conductors connected to the mains		N
	Double insulation between conductors connected to accessible parts and parts connected to the mains		N
8.11	Detaching of wires		N
	No undue reduction of creepage or clearance distances if wires become detached		N
	Vibration test carried out .....		N
8.12	Adequate fastening of windows, lenses, lamp covers etc. (pull test 20 N for 10 s)		N
8.13	Adequate fastening of covers (pull test 50 N for 10 s)		N

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Clause	Requirement – Test	Result - Remark	Verdict
8.14	No risk of damage to the insulation of internal wiring due to hot parts or sharp edges		N
8.15	Only special supply equipment can be used		N
8.16	Insulated winding wire without additional interleaved insulation		N
8.17	Endurance test as required by 8.16		N
8.18	Disconnect from the mains		N
	Disconnect device		N
	All-pole switch or circuit breaker with >3mm contact separation		N
	Mains switch ON indication		N
8.19	Switch not fitted in the mains cord		N
8.20	Bridging components comply with clause 14		N
8.21	Non-separable thin sheet material		N

<b>9</b>	<b>ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITION</b>		<b>N</b>
9.1	Testing on the outside		N
9.1.1	General		N
9.1.1.1	Requirements		N
	Accessible parts shall not be hazardous live	Supplied from USB cable or secondary battery, no hazardous live part inside the apparatus.	N
	Inaccessible terminals are not accessible or comply with relevant requirements		N
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation.....:		N
9.1.1.2	Determination of hazardous live parts		N
	a) Open circuit voltages		N
	b) Touch current measured from terminal devices using the network in Annex D .....		N
	c) Discharge not exceeding 45μC		N
	d) Energy of discharge not exceeding 350mJ		N
9.1.1.3	Test with test finger and test probe		N
9.1.2	No hazardous live shafts of knobs, handles or levers		N

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Clause	Requirement – Test	Result - Remark	Verdict
9.1.3	Ventilation holes tested by means of 4 mm x 100 mm test pin	No access to hazardous live	N
9.1.4	Terminal devices tested with 1 mm x 20 mm test pin (10 N); test probe D of IEC 61032	No such terminal	N
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032		
9.1.5	Pre-set controls tested with 2 mm x 100 mm test pin (10 N); test probe C of IEC 61032	No such terminal	N
9.1.6	Withdrawal of the mains plug		N
	No shock hazard due to stored charge after 2 s .... :		N
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited		N
	If C is not greater than 0,1 $\mu$ F no test needed		N
9.1.7	Resistance to external force		N
	a) Test probe 11 of IEC 61032 for 10 s (50 N)		N
	b) Test hook of fig. 4 for 10 s (20 N)		N
	c) 30 mm diameter test tool for 5 s (100 or 250 N)		N
9.2	No hazard after removing a cover by hand		N

<b>10</b>	<b>INSULATION REQUIREMENTS</b>		<b>N</b>
10.2	Insulation resistance (M $\Omega$ ) at least 2 M $\Omega$ min. after surge test for basic and 4 M $\Omega$ min. for reinforced insulation .....	Not directly connect to the mains.	N
10.3	Humidity treatment 48 h or 120 h .....		N
10.4	Insulation resistance and dielectric strength		N
	Between parts of different polarity directly connected to the mains		N
	Between parts separated by BASIC or SUPPLEMENTARY insulation		N
	Between parts separated by REINFORCED insulation		N

<b>11</b>	<b>FAULT CONDITIONS</b>		<b>P</b>
11.1	No shock hazard under fault condition	No hazardous live parts in equipment	N
11.2	Heating		P
11.2.1	Requirements		P

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

<b>12</b>	<b>MECHANICAL STRENGTH</b>		<b>P</b>
12.1	Complete apparatus		P
12.1.1	The apparatus have adequate mechanical strength		P
12.1.2	Bump test where mass >7 kg	<7kg	N
12.1.3	Vibration test		N
12.1.4	Impact hammer test	After test, no damage and hazard.	P
	Steel ball test		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
12.1.5	Drop test for portable apparatus where mass $\leq 7$ kg	After test, no damage and hazard.	P
12.1.6	Thermoplastic enclosures strain relief test	70°C, 7h	P
12.2	Fixing of knobs, push buttons, keys and levers		N
12.3	Remote controls with hazardous live parts		N
12.4	Drawers (pull test 50 N, 10 s)		N
12.5	Antenna coaxial sockets providing isolation		N
12.6	Telescoping or rod antennas		N
12.6.1	6,0mm diameter end		N
	Prevented from falling into the apparatus		N
12.6.2	Physical securement, removal prevented		N
12.7	Apparatus containing coin / button cell batteries		N
12.7.2	Reduced possibility for children to remove battery		N
12.7.3	Tests		N
12.7.3.2	Stress relief test		N
12.7.3.3	Battery replacement test		N
12.7.3.4	Drop test		N
12.7.3.5	Impact test		N
12.7.4	Battery not accessible; or not removable		N

<b>13</b>	<b>CLEARANCE AND CREEPAGE DISTANCES</b>		<b>N</b>
13.1	Clearances in accordance with 13.3		N
	Creepage distances in accordance with 13.4		N
13.2	Determination of operating voltage		N
13.3	Clearances		N
13.3.1	Comply with 13.3 or Annex J		N
13.3.2	Circuits conductively connected to the mains comply with table 8 and where applicable table 9		N
13.3.3	Circuits not conductively connected to the mains comply with table 10		N
13.3.4	Measurement of transient voltages		N
13.4	Creepage distances not less than appropriate table 11 minimum values		N
13.5	Printed boards		N

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

<b>14</b>	<b>COMPONENTS</b>		<b>P</b>
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2.5		N
14.2	Resistors		N
	Resistors separately approved .....		N
	a) Resistors between hazardous live parts and accessible metal parts		N
	b) Resistors, other than between hazardous live parts and accessible parts		N
14.3	Capacitors and RC units	No such components.	N
	Capacitors separately approved		N
14.3.1	Damp heat test duration 21 days		N
14.3.2	Y capacitors tested to IEC 60384-14:2005 .....		N
14.3.3	X capacitors tested to IEC 60384-14:2005 .....		N
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2 .....		N
14.3.6	Capacitors with volume exceeding 1750 mm <sup>3</sup> , where short-circuit current exceeds 0,2 A: compliance with IEC60384-1, 4.38 category B or better .....		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Capacitors with volume exceeding 1750 mm <sup>3</sup> , where short-circuit current exceeds 0,2 A: compliance with IEC60384-1, 4.38 category B or better .....		N
14.4	Inductors and windings		N
14.4.1	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.2.5		N
	Transformers and inductors separately approved :		N
14.4.2	Transformers and inductors marked with manufacturer's name and type .....		N
14.4.3	General		N
	Insulation material complies with clause 20.2.5		N
14.4.4	Constructional requirements		N
14.4.4.1	Clearances and creepage distances comply with clause 13		N
14.4.4.2	Transformers meet the constructional requirements		N
14.4.5	Separation between windings		N
14.4.5.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation) .....		N
	Coil formers and partition walls > 0,4 mm		N
14.4.5.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions are met		N
14.4.5.3	Separating transformers with at least basic insulation		N
14.4.6	Insulation between hazardous live parts and accessible parts		N
14.4.6.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)		N
	Coil formers and partition walls > 0,4 mm		N
14.4.6.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal		N
	Winding wires connected to protective earth have adequate current-carrying capacity		N
14.5	High voltage components and assemblies (U > 4kV peak)		N
14.5.1	Component meets category V-1 of IEC 60695-11-10		N
14.5.2	High voltage transformers and multipliers		N

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Clause	Requirement – Test	Result - Remark	Verdict
14.5.3	High voltage assemblies and other parts		N
14.6	Protective devices		N
	Protective devices used within their ratings		N
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened		N
14.6.2	Thermal releases		N
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4		N
14.6.2.2	a) Thermal cut-outs separately approved		N
	b) Thermal cut-outs tested as part of the submission		N
14.6.2.3	a) Thermal links separately approved		N
	b) Thermal links tested as part of the submission		N
14.6.2.4	Thermal devices re-settable by soldering		N
14.6.3	Fuses and fuse holders		
14.6.3.1	Fuse-links in the mains circuit according to IEC 60127		N
14.6.3.2	Correct marking of fuse-links adjacent to holder ... :		N
14.6.3.3	Not possible to connect fuses in parallel		N
14.6.3.4	Not possible to touch hazardous live parts when replacing fuse-links without the use of a tool ..... :		N
14.6.4	PTC thermistors comply with IEC 60730-1:2010		N
	PTC devices (>15 W) category V-1 or better		N
14.6.5	Circuit protectors have adequate breaking capacity and their position is correctly marked		N
14.7	Switches		N
14.7.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - For CRT TV's, make and break speed independent of speed of actuation - V-0 or compliance with G.1.1		N
14.7.1 b)	Tested in the apparatus		N
	Switch controlling > 0.2A with open contact voltage > 35 V (peak) / 24 V dc complying with 14.6.3, 14.6.4 and V-0 or G.1.1		N
	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

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
	Switch controlling $\leq 0.2A$ with open contact voltage $> 35 V$ (peak)/24 V dc complying with 14.6.4 and V-0 or G.1.1		N
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
14.7.3	Switch tested to 14.6.1 b) compliant with IEC 61058-1 subclause 16.2.2 d) and m) not attaining excessive temperatures in use		N
14.7.4	Switch tested to 14.6.1 b) has adequate dielectric strength		N
14.7.5	Mains switch controlling mains socket outlets additional tests to IEC 61058-1		N
14.8	Safety interlocks according to 2.8 of IEC 60950-1	No safety interlocks used	N
14.9	Voltage setting device and the like are not likely to be changed accidentally	No such devices	N
14.10	Motors		P
14.10.1	a) Endurance test on motors		N
	b) Motor start test		N
	Dielectric strength test		N
14.10.2	Not adversely affected by oil or grease etc.		P
14.10.3	Protection against moving parts		P
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
14.11	Batteries		P
14.11.1	Comply with IEC 62133 if applicable	Built-in a Li-ion battery, which complied with IEC 62133.	P
	Batteries mounted with no risk of accumulation of flammable gases		P
14.11.2	No possibility of recharging user replaceable non-rechargeable batteries		N
14.11.3	Recharging currents and times within manufacturers limits	Normal condition recharging current: 680mA; Abnormal condition recharging current: 1050mA; Limit Recharging current: 1200mA.	P

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Clause	Requirement – Test	Result - Remark	Verdict
	Lithium batteries discharge and reverse currents within the manufacturers limits	Normal condition discharging current: 320mA; Abnormal condition discharging current: 910mA. Limit discharging current: 1200mA.	P
14.11.4	Battery mould stress relief		N
14.11.5	Battery drop test		N
14.12	Optocouplers		N
	Comply with constructional requirements of clause 8		N
	External clearances and creepage comply with 13.1		N
	Compound completely filling the casing or internal clearances and creepage comply with 13.1 .....		N
	a) Complies with 13.6 (jointed insulation) and N.3.2		N
	b) Complies with IEC 60747-5-5:2007		N
	c) Complies with 13.8		N
14.13	Surge suppression varistors		N
	Comply with IEC 61051-2		N
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus		N
	GDT bridging basic insulation complies with electric strength and distance requirements		N
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13		N

<b>15</b>	<b>TERMINALS</b>	<b>P</b>
15.1	Plugs and sockets	N
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard	N
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets	N
	Overloading of internal wiring prevented if the apparatus has mains socket outlets	N
15.1.2	Design of connectors other than for mains power	P
	Design of sockets with symbol of 5.3 b) design	P
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus	P

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
15.2	Provision for protective earthing		N
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment		N
	Protective earth conductors correctly fixed and coloured		N
	Separate protective earth terminal near mains terminal and comply with 15.3		N
	Protective earth terminal resistant to corrosion		N
	Earth resistance test: $< 0,1 \Omega$ at 25 A ..... :		N
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		N
15.3.1	Adequate terminals for connection of permanent wiring		N
15.3.2	Reliable connection of non-detachable cords:		N
	Not soldered to conductors of a printed circuit board		N
	Adequate clearances and creepage distances between connections should a wire break away		N
	Wire secured by additional means to the conductor		N
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar		N
15.3.4	Conductors adequately fixed (two independent fixings)		N
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area		N
15.3.6	Terminals to 15.3.3 have sizes required by table 16		N
15.3.7	Terminals clamp conductors between metal and have adequate pressure		N
	Terminals designed to avoid conductor slipping out when tightened		N
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)		N
15.3.8	Terminals carrying a current more than 0,2 A: contact pressure not transmitted by insulating material except ceramic		N
15.3.9	Termination of non-detachable cords: wires terminated near to each other		N
	Terminals located and shielded: test with 8 mm strand		N
15.4	Devices forming a part of the mains plug		N
15.4.1	No undue strain on mains socket-outlets		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
15.4.2	Device complies with standard for dimensions of mains plugs		N
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N

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

<b>17</b>	<b>ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS</b>		<b>P</b>
17.1	Table 20 torque test metal thread, 5 times.....:		N
	Table 20 torque test non-metallic thread, 10 times .....		P
17.2	Correct introduction into female threads in non-metallic material		P
17.3	Cover fixing screws captive or no hazard when replaced by a screw whose length is 10 times its diameter	The fixing screws are captive.	P
17.4	No loosening of conductive parts carrying a current > 0,2 A		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
17.5	Contact pressure not transmitted through plastic other than ceramic for connections carrying a current > 0,2 A		P
17.6	Stranded conductors of flexible supply cords carrying a current > 0,2 A with screw terminals not consolidated by solder		N
17.7	Cover fixing devices other than screws have adequate strength and their positioning is unambiguous		N
17.8	Fixing devices for detachable legs or stands provided		P
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected		N

<b>18</b>	<b>Mechanical strength of picture tubes and protection against the effects of implosion</b>		<b>N</b>
18.1	Comply with IEC 61965 or 18.2		N
18.2	Non-intrinsically protected tubes		N

<b>19</b>	<b>Stability and mechanical hazards</b>		<b>P</b>
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) ..... :	<7Kg	N
19.2	Test at 10° to the horizontal		N
19.3	Vertical force test 100 N applied downwards		N
19.4	Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability		N
19.5	Edges or corners not hazardous	Edges or corners are smooth and rounded.	P
19.6	Mechanical strength of glass		N
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		N
19.6.2	Fragmentation test		N
19.7	Wall or ceiling mounting means		N
19.7.1 - 19.7.3	Not dislodged and remain mechanically intact after test according to 19.7.2 Test 1, Test 2 or Test 3 .....:		N

<b>20</b>	<b>Resistance to fire</b>		<b>P</b>
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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
20.1	Start and spread of fire is prevented	No potential ignition sources inside and PCB rate V-0 and plastic enclosure rate min. HB is used.	P
20.2	Electrical components and mechanical parts		
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		P
	b) Exemption for small components	All small electrical components and capacitors are mounted on a PCB of flammability class V-1 (or better).	P
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		P
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2	Internal wiring working at voltages not exceeding 4 kV	N
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	PCB of flammability class Min. V-1.	P
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60695-11-10.		N
20.2.5	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21		N
	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
	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
20.3	Fire enclosure	Open-circuit voltage less than 4kV.	N
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
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure		N

<b>Appendix A</b>	<b>Additional requirements for apparatus with protection against splashing water</b>		<b>P</b>
A.5	Marking and instructions		P
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply		P
A.10	Insulation requirements		N
A.10.3	Splash and humidity treatment		N
A.10.3.1	The enclosure provide adequate protection against splashing water		N
A.10.3.2	Complies with 10.3,duration of the test is 168h		N

<b>Appendix B</b>	<b>Apparatus to be connected to the TELECOMMUNICATION NETWORKS</b>		<b>N</b>
	Complies with IEC 62151 clause 1		N
	Complies with IEC 62151 clause 2		N
	Complies with IEC 62151 clause 3 modified		N
	Complies with IEC 62151 clause 4 modified		N
	Complies with IEC 62151 cause 5 modified		N
	Complies with IEC 62151 clause 6		N
	Complies with IEC 62151 clause 7		N
	Complies with IEC 62151 annex A, B and C		N

<b>ANNEX L</b>	<b>Additional requirements for electronic flash apparatus for photographic purposes</b>		<b>N</b>
L.5	Marking and instructions		N
L.5.5.1	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used		N
	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N
L.7	Heating under normal operating conditions		N
L.7.1.6	Lithium batteries meet permissible temp rise in Table 3		N
L.9	Electric shock hazard under normal operating conditions		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
L. 9.1.1.1	Terminals for connection to synchroniser not hazardous live		N
L.14	Components		N
L.14.6.7	Mains switch characteristics appropriate to its function under normal conditions		N

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EN 60065							
Clause	Requirement – Test					Result - Remark	Verdict
CENELEC common modifications (EN)							
General	1.1.3	Note 2	5.4	Note	5.5.2	Note 1 and Note 2	P
	13.3.1	Note 4	14.1	Note 1 and Note 2	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 and Note 2			
1.2	Normative references						P
	Add the following: EN 71-1, <i>Safety of toys – Part 1: Mechanical and physical properties</i> EN 50332-1, <i>Sound system equipment: Headphones and earphones associated with personal music players – Maximum sound pressure level measurement methodology – Part 1: General method for "one package equipment"</i> EN 50332-2, <i>Sound system equipment: Headphones and earphones associated with personal music players – Maximum sound pressure level measurement methodology – Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardised connectors between the two allowing to combine components of different manufacturers or different design</i>					P	
3	General requirements						N
3.Z1	Protective devices 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 Clause 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 apparatus not supplied via an industrial mains plug or for PERMANENTLY CONNECTED APPARATUS the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.					N	
4	General test conditions						N
4.1.1	Replace the text of the note by: NOTE For ROUTINE TEST, reference is made to EN 50514:2008.					N	

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
<b>6</b>	<b>Hazardous radiations</b>		<b>N</b>
6.1	<p><b>Replace</b> 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.  <i>Compliance is checked by measurement under the following conditions:</i>  <i>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.</i>            NOTE 1 Soldered joints and paint lockings are examples of adequate locking.  <i>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</i>  <i>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.</i>  <i>The dose-rate shall not exceed 1 µSv/h (0,1 mR/h) taking account of the background level.</i>            NOTE 2 These values appear in Council Directive 96/29/Euratom of 13 May 1996.  <i>A picture is considered to be intelligible if the following conditions are met:</i>            - a scanning amplitude of at least 70 % of the usable screen width;            - a minimum luminance of 50 cd/m² with locked blank raster provided by a test generator;            - a horizontal resolution corresponding to at least 1,5 MHz in the centre, with a similar vertical degradation;            - not more than one flashover per 5 min.</p>		<b>N</b>
<b>16</b>	<b>External flexible cords</b>		<b>N</b>
16.1	<p><b>Add</b> the following note after the first paragraph:            NOTE Z1 The harmonized code designations corresponding to the IEC cord types are given in Annex ZD.</p>		<b>N</b>


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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
<b>Z1</b>	<b>Protection against excessive sound pressure from personal music players</b>		<b>N</b>
Z1.1	<p><b>General</b></p> <p>This subclause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear.</p> <p>Requirements for earphones and headphones intended for use with personal music players are also covered.</p> <p>A personal music player is a portable equipment for personal use, that:</p> <ul style="list-style-type: none"> <li>– is designed to allow the user to listen to recorded or broadcast sound or video; and</li> <li>– uses a listening device, such as headphones or earphones that can be worn in or on or around the ears; and</li> <li>– 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.</li> </ul> <p>EXAMPLES CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment.</p> <p>A personal music player shall comply with the requirements of this subclause.</p> <p>NOTE 1 Protection against acoustic energy sources from telecom terminal equipment is referenced to ITU-T Recommendation P.360.</p> <p>The requirements in this subclause are valid for music or video mode only.</p> <p>The requirements do not apply to:</p> <ul style="list-style-type: none"> <li>– professional equipment;</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>– hearing aid equipment and other devices for assistive listening;</li> <li>– the following types of analogue personal music players:</li> </ul> <ul style="list-style-type: none"> <li>• long distance radio receiver (for example, a multiband radio receiver or a world band radio receiver, an AM radio receiver) and</li> <li>• cassette player/recorder;</li> </ul> <p>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.</p> <ul style="list-style-type: none"> <li>– player while connected to an external amplifier that does not allow the user to walk around while in use.</li> </ul> <p>For equipment clearly designed or intended for use by young children, the limits of EN 71-1 apply.</p>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Z1.2	<p><b>Equipment requirements</b></p> <p>No safety provision is required for equipment that complies with the following:</p> <ul style="list-style-type: none"> <li>– equipment provided as a package (personal music player with its listening device), where the acoustic output <math>L_{Aeq,T}</math> is <math>\leq 85</math> dB(A) measured while playing the fixed “programme simulation noise” as described in EN 50332-1; and</li> <li>– 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 playing the fixed “programme simulation noise” as described in EN 50332-1.</li> </ul> <p>NOTE 1 Wherever the term acoustic output is used in this subclause, the 30 s A-weighted equivalent sound pressure level <math>L_{Aeq,T}</math> is meant. See also Z1.5 and Annex ZE.</p> <p>All other equipment shall:</p> <ul style="list-style-type: none"> <li>a) protect the user from unintentional acoustic outputs exceeding those mentioned above; and</li> <li>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</li> <li>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</li> </ul> <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> <ul style="list-style-type: none"> <li>d) have a warning as specified in Z1.3; and</li> <li>e) not exceed the following:               <ul style="list-style-type: none"> <li>1) equipment provided as a package (player with its listening device), the acoustic output shall be <math>\leq 100</math> dB(A) measured while playing the fixed “programme simulation noise” described in EN 50332-1; and</li> <li>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.</li> </ul> </li> </ul> <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 does not exceed the basic limit of 85 dB(A). In this case, <math>T</math> becomes the duration of the song.</p>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Cont.	<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 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).</p> <p>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).</p>		N
Z1.3	<p>The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:</p> <ul style="list-style-type: none"> <li>– the symbol of Figure Z1 with a minimum height of 5 mm; and</li> <li>– the following wording, or similar:</li> </ul> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p>To prevent possible hearing damage, do not listen at high volume levels for long periods.</p> </div> <div style="text-align: center; margin: 10px auto;">  </div> <p><b>Figure Z1 – 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
<b>Z1.4</b>	<b>Requirements for listening devices (headphones, earphones, etc.)</b>		<b>N</b>
Z1.4.1	<p><b>Corded passive listening devices with analogue input</b></p> <p>With 94 dB(A) 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.</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, an additional sound feature like equalization, etc.).</p> <p>NOTE The values of 94 dB(A) – 75 mV correspond with 85 dB(A) – 27 mV and 100 dB(A) – 150 mV.</p>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Z1.4.3	<b>Cordless 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 $L_{Aeq,T}$ of the listening device shall be $\leq 100$ dB(A).		N
Z1.5	<b>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. NOTE Test method for cordless equipment provided without listening device should be defined.		N

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

<b>ZA</b>	<b>NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS</b>		—
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<b>ZB</b>	<b>ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)</b>		<b>N</b>
2.6.1	<b>Denmark</b> 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 <i>Justification:</i> Heavy Current Regulations, Section 6c		N
3.Z1	<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. <i>Justification:</i> In Denmark an existing 13 A socket outlet can be protected by a 20 A fuse.		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
5.4	<b>Denmark, Finland, Norway and Sweden</b> 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 <b>Denmark</b> : "Apparatets stikprop skal tilsluttes en stikkontakt med jord, som giver forbindelse til stikproppens jord." 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"		N
5.5.2	<b>Norway and Sweden</b> <b>Add</b> 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.		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Cont.	<p>For å unngå dette skal det ved tilkoping av utstyret til kabel-TV nettet installeres en galvanisk isolator mellom utstyret og kabel-TV nettet.”</p> <p>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.          För att undvika detta skall vid anslutning av utrustningen till kabel-TV nät galvanisk isolator finnas mellan utrustningen och kabel-TV nätet.”</p>		N
13.3.1	<p><b>Norway</b>  <b>Add</b> to the second paragraph the following:          Due to the IT power distribution system used, the a.c. MAINS supply voltage is considered to be equal to the line-to-line voltage, and will remain 230 V in case of a single earth fault.  <i>Justification:</i>          Based on a use in Norway of an IT power distribution system where the neutral is not provided</p>		N
15.1.1	<p><b>Denmark</b>          To the first paragraph the following is added:          In Denmark, supply cords of single phase appliances having a rated current not exceeding 13 A shall be provided with a plug according to DS 60884-2-D1.          Appliances of Class I provided with socket-outlets with earth contact or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules shall be provided with a plug which assure earth continuity with the socket-outlet in accordance with DS 60884-2-D1.          If a single-phase equipment having a RATED CURRENT exceeding 13 A or if a poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with the standard sheets DK 6-1a in DS 60884-2-D1 or EN 60309-1.          To the second paragraph the following is added:          Socket outlets intended for providing power to Class II apparatus with a rated current of 2,5 A shall be in accordance with DS 60884-2-D1 standard sheet DKA 1-4a.          Other current rating socket outlets shall be in compliance with DS 60884-2-D1 Standard Sheet DKA 1-3a or DKA 1-1c.          To the third paragraph the following is added:          Mains socket-outlets with earthing contact shall be in compliance with DS 60884-2-D1, Standard sheet DK 1-3a, DK 1-1c, DK 1-1d, DK 1-5a or DK 1-7a  <i>Justification:</i>          Heavy Current Regulations, Section 6c</p>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
15.1.1	<b>Ireland</b> 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. <i>Justification:</i> SI 525: 1997		N
15.1.1	<b>Norway</b> 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. <div data-bbox="288 797 959 1303" data-label="Diagram"> <p>STANDARD SHEET I</p> <p>2,5 A/250 V SOCKET-OUTLET FOR ELECTRONIC APPLIANCES OF CLASS II</p> <p>Dimensions in mm</p> <p>Other dimensions according to CEE Publication 7 Standard Sheet I</p> <p>"Portable Single-Way Socket-Outlets".</p> </div> § 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. <i>Justification:</i> Act of 24 May 1929 relating to supervision of electrical installation (TEA 1929/FEL 1998).		N
15.1.1	<b>United Kingdom</b> 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. <i>Justification:</i> SI 1768: 1994		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Annex B	<p><b>Finland, Norway and Sweden</b></p> <p>All sub clauses given below are sub clauses of IEC 62151 (ref. corrigenda 1 and 2 to IEC 62151).</p> <p><b>Subclause 4.1.1 (corrigendum 2):</b></p> <p><b>Add</b> after the first paragraph:</p> <p>NOTE In <b>Finland, Norway and Sweden</b>, CLASS I equipment which is intended for connection to the building installation via a non-industrial plug or a non-industrial appliance coupler, or both and in addition is intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and ACCESSIBLE parts, has a marking stating that the equipment must be connected to an earthed mains socket-outlet.</p> <p>The marking text in the applicable countries shall be as follows:</p> <p>In Finland: “ Laite on liitettävä suojakoskettimilla varustettuun pistorasiaan ”</p> <p>In Norway: “Apparatet må tilkoples jordet stikkontakt”</p> <p>In Sweden: "Apparaten skall anslutas till jordat uttag"</p> <p><b>Subclause 4.1.4 (corrigendum 1)</b></p> <p><b>Add</b> at the end of the subclause:</p> <p>NOTE In <b>Norway</b>, for requirements see 4.1.1, note and 5.3.1, note 1.</p> <p><b>Subclause 4.2.1.2 (corrigendum 1)</b></p> <p><b>Add</b> at the end of the subclause:</p> <p>NOTE 3 In <b>Norway</b>, for requirements see 5.3.1, note 1.</p> <p><b>Subclause 4.2.1.3 (corrigendum 2)</b></p> <p><b>Add</b> at the end of the subclause:</p> <p>NOTE In <b>Norway</b>, for requirements see 4.1.1, note and 5.3.1, note 1.</p> <p><b>Subclause 4.2.1.4 (corrigendum 1)</b></p> <p><b>Number</b> the existing note as NOTE 1 and <b>add</b> at the end of the subclause the following NOTE 2:</p> <p>NOTE 2 In <b>Norway</b>, for requirements see 4.1.1, note and 5.3.1, note 1.</p> <p><b>Subclause 5.3.1 (corrigendum 1)</b></p> <p><b>Add</b> after the first test specifications paragraph:</p> <p>NOTE 1 In <b>Finland, Norway and Sweden</b>, there are additional requirements for the insulation.</p> <p><b>Renumber</b> the existing note as NOTE 2.</p> <p>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):</p> <p>NOTE 1 In <b>Finland, Norway and Sweden</b>, if this insulation is solid, including insulation forming part of a component, it shall at least consist of either • two layers of thin sheet material, each of which shall pass the electric strength test below, or • one layer having a distance through insulation of at least 0,4 mm, which shall pass the electric strength test below</p> <p>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:</p> <ul style="list-style-type: none"> <li>• 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</li> <li>• 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).</li> </ul> <p>It is permitted to bridge this insulation with a capacitor complying with EN 132400:1994, subclass Y2.</p>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Cont.	<p>A capacitor classified Y3 according to EN 132400:1994, may bridge this insulation under the following conditions:</p> <ul style="list-style-type: none"> <li>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;</li> <li>the additional testing shall be performed on all the test specimens as described in EN 132400;</li> <li>the impulse test of 2,5 kV is to be performed before the endurance test in EN 132400 in the sequence of tests as described in EN 132400.</li> </ul>		N
	<p><b>Subclause 5.3.2 (corrigendum 1)</b>  <b>Add</b> after the fourth dash:            NOTE In <b>Finland, Norway and Sweden</b>, 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.</p>		N
J.2	<p><b>Norway</b>            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.  <i>Justification:</i>            Based on a use in Norway of an IT power distribution system where the neutral is not provided</p>		N

ZC	ANNEX ZC, NATIONAL DEVIATIONS (EN)		N
5.1	<p><b>Italy</b>            The following requirements shall be fulfilled:</p> <ul style="list-style-type: none"> <li>The power consumption in Watts (W) shall be indicated on TV receivers and in their instruction for use (Measurement according to IEC 60107-1)</li> </ul> <p>NOTE EN 60555-2 has since been replaced by IEC 60107-1:1997.</p> <ul style="list-style-type: none"> <li>TV receivers shall be provided with an instruction for use, schematic diagrams and adjustments procedure in Italian language.</li> <li>Marking for controls and terminals shall be in Italian language.</li> </ul> <p>Abbreviation and international symbols are allowed provided that they are explained in the instruction for use.</p> <ul style="list-style-type: none"> <li>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.</li> </ul>		N

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EN 60065			
Clause	Requirement – Test	Result - Remark	Verdict
Cont.	<p>- 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 <i>Justification:</i> Ministerial Decree of 26 March 1992: National rules for television receivers trade. NOTE The ministerial decree above contains additional, but not safety relevant requirements.</p>		N
6.1	<p><b>Germany</b> The following requirement applies: For the operation of any cathode ray tube intended for the display of visual images operating at an acceleration voltage exceeding 40 kV, authorization is required, or application of type approval (Bauartzulassung) and marking. <i>Justification:</i> German ministerial decree against ionizing radiation (Röntgenverordnung), in force since 2002-07-01, implementing the Council Directive 96/29/Euratom in Germany. NOTE Contact address: Physikalisch-Technische Bundesanstalt, Bundesallee 100, D-38116 Braunschweig, Tel.: Int+49-531-592-6320, Internet: <a href="http://www.ptb.de">http://www.ptb.de</a></p>		N
14.1	<p><b>Sweden</b> The following requirements shall be fulfilled: Switches containing mercury such as thermostats, relays and level controllers are not allowed.</p>		N

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7.1		TABLE: temperature rise measurements						P
		Power consumption in the OFF/Stand-by mode of the functional switch (W).....:				--		--
Condition No.	Un (V)	Hz	In (A)	Pn (W)	Uout (V)	P <sub>out</sub> (W)	Operating Condition / Status	
Charge mode with empty battery via micro-B USB port:								
1	5.0	--	1.13	5.62	5.0	2.5	1/8 power of non-clipped output power, 1 kHz sinusoidal wave, and operated on bluetooth mode. USB output port loaded with 500mA current.	
2	5.0	--	0.65	3.25	--	--	Only charge mode.	
Discharge mode with full charged battery:								
3	3.7	--	0.32	1.18	--	--	1/8 power of non-clipped output power, 1 kHz sinusoidal wave, and operated on bluetooth mode.	
	Loudspeaker impedance (Ω).....:					4Ω		--
	Several loudspeaker systems .....					--		--
	Marking of loudspeaker terminals .....					--		--
	Ambient(°C) .....					35 °C		--
Test Condition No.						No.1	No.3	--
Thermocouple Locations						dT (K)	dT (K)	dT (K) limit
For speaker:								
Internal wire						12.3	11.5	60
Battery surface						11.5	10.8	Ref.
PCB near U1						21.3	20.4	130-35=95
PCB near U3						22.7	22.2	130-35=95
PCB near U4						24.3	23.6	130-35=95
Button						6.8	6.3	50
Plastic enclosure inside near PCB						9.3	8.6	80-35=45
Plastic enclosure outside near PCB						6.4	5.9	80-35=45
For charge base:								
PCB near USB port						16.3	--	80-35=45
Plastic enclosure outside near PCB						6.7	--	80-35=45
Ambient						35.0(°C)	35.0(°C)	--
	Winding temperature rise measurements							N

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	Ambient temperature T1 (°C) .....			--	--	
	Ambient temperature T1 (°C) .....			--	--	
Temperature rise of winding		R <sub>1</sub> (Ω)	R <sub>2</sub> (Ω)	ΔT (K)	Limit dT (K)	Insulation class
--		--	--	--	--	--
Note:						

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

10.4	TABLE: Insulation Resistance Measurements		N
Insulation resistance R between:		R (MΩ)	Required R (MΩ)
--		--	--
Note: --			

10.4	TABLE: Dielectric Strength			N
Test voltage applied between:		Test voltage (V <sub>peak</sub> )	Breakdown	
--		--	--	
Note:--				

11	TABLE: Fault Conditions				P
	model/type of power supply.....:	USB port: 5Vdc Battery: 3.7Vdc			--
	Ambient temperature (°C).....:	24-26.0			--
No.	Component	Fault	dT (K) / Component	Test conditions, test duration, test result	
1	Speaker	S-C	--	The speaker no work, no damage and hazards.	
2	U4 Pin(3-4)	S-C	--	Unit shutdown shutdown immediately, no damage and hazards.	
3	U2 Pin(2-3)	S-C	--	Unit working normally. No damaged, no hazards.	
4	Battery B- and P-	S-C	--	Unit working normally. No damaged, no hazards.	
5	Battery P+ and P-	S-C	--	Unit shutdown shutdown immediately, no damage and hazards.	
6	USB output port	S-C	62.9/PCB near USB port 32.9/ Enclosure	Unit shutdown shutdown immediately, damaged, no hazards.	

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7	USB output port	O-L	59.6/PCB near USB port 32.4/ Enclosure	Unit shutdown shutdown at last, damaged, no hazards.
8	EUT	Max. volume	16.9/ Battery surface 29.6/PCB near U1 12.9/ Enclosure	Unit working normally. No damaged, no hazards.
Note: Fault S-C = short circuit; O-L = over load; CD = component damaged.				

13	TABLE: Clearance And Creepage Distance Measurements					N		
Rated supply voltage:			Pollution degree....:			Material Group ....:		
2 N force on internal parts applied:								
30 N force on outside of conductive enclosure applied:								
clearance and creepage distance at/of:		Working voltage (V)		Clearance (mm)		Creepage (mm)		
		U peak	U r.m.s.	Required	Measured	required	Measured	
--		--	--	--	--	--	--	
Note:--								

Note: --					
14	TABLE: Critical components information				P
Component	Manufacturer/trademark	Type/model	Value / rating	Standard	Approval/Reference
Li-ion battery	Shenzhen Sunbang Technology Limited Co., Ltd	18650	3.7V, 1200mAh	IEC 62133	Report No.: A001B20170619014
PCB	Interchangable	Interchangable	V-0, 130°C	UL94, UL796	UL
Internal wire	Interchangable	Interchangable	26AWG, 300V, 80°C	UL758	UL
Plastic enclosure	SHENZHEN HALCYON NEW MATERIALS CO LTD	PC201 VG-20R (a)	Min 1.0mm, V-0, 80°C	UL94	UL E233919
Speaker	Interchangable	Interchangable	4Ω, 5W	EN 60065	Tested with appliance
Note: --					

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**Attachment A**  
**Photos of product**

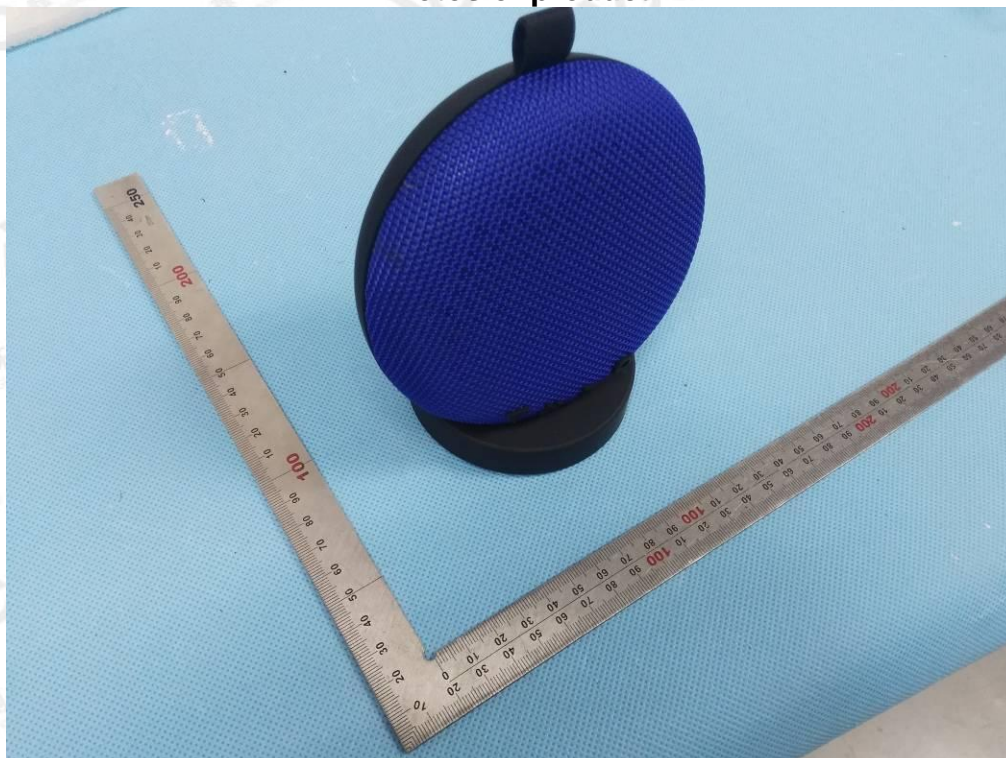


Fig.1- overview

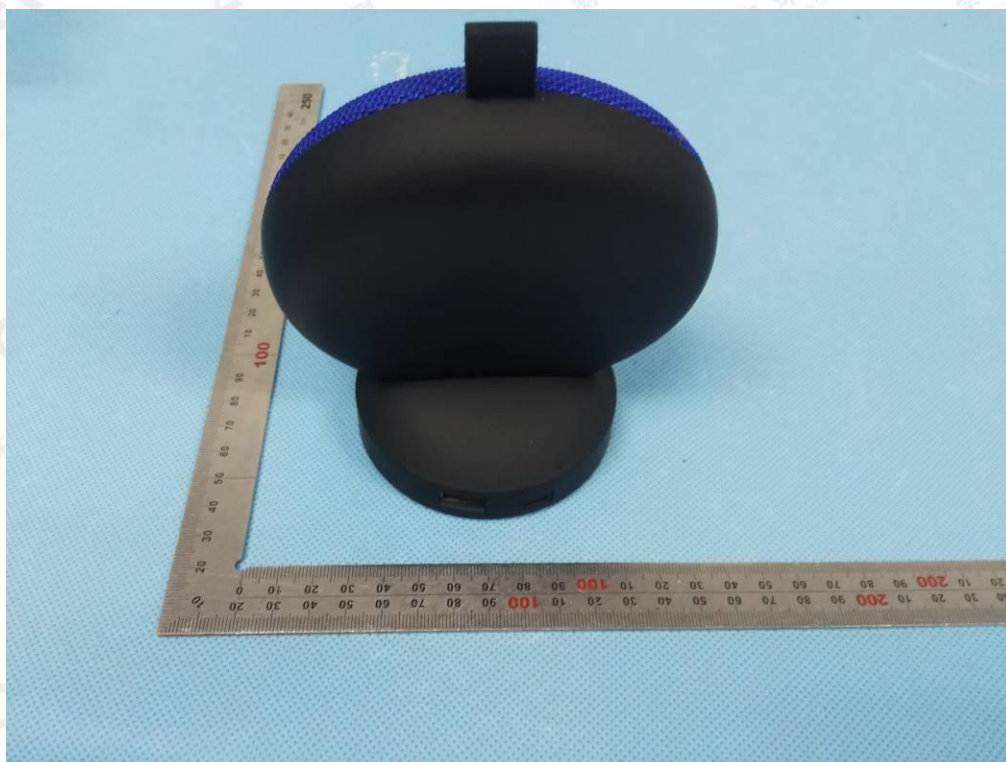


Fig.2 - overview

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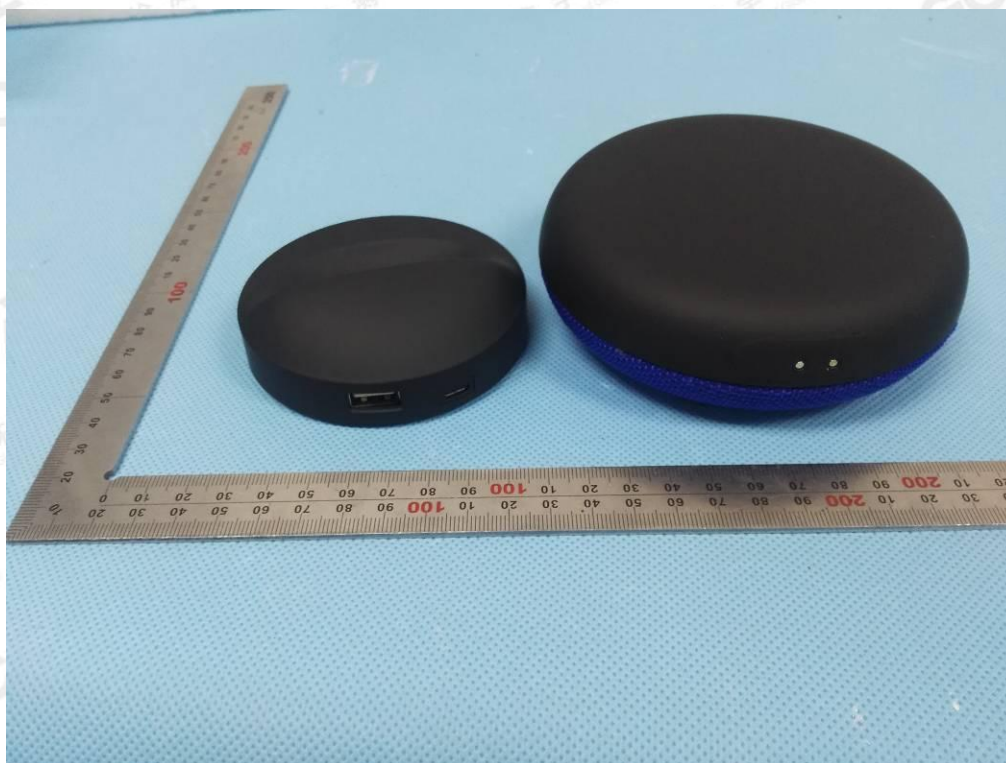


Fig.3 – overview



Fig.4 – overview

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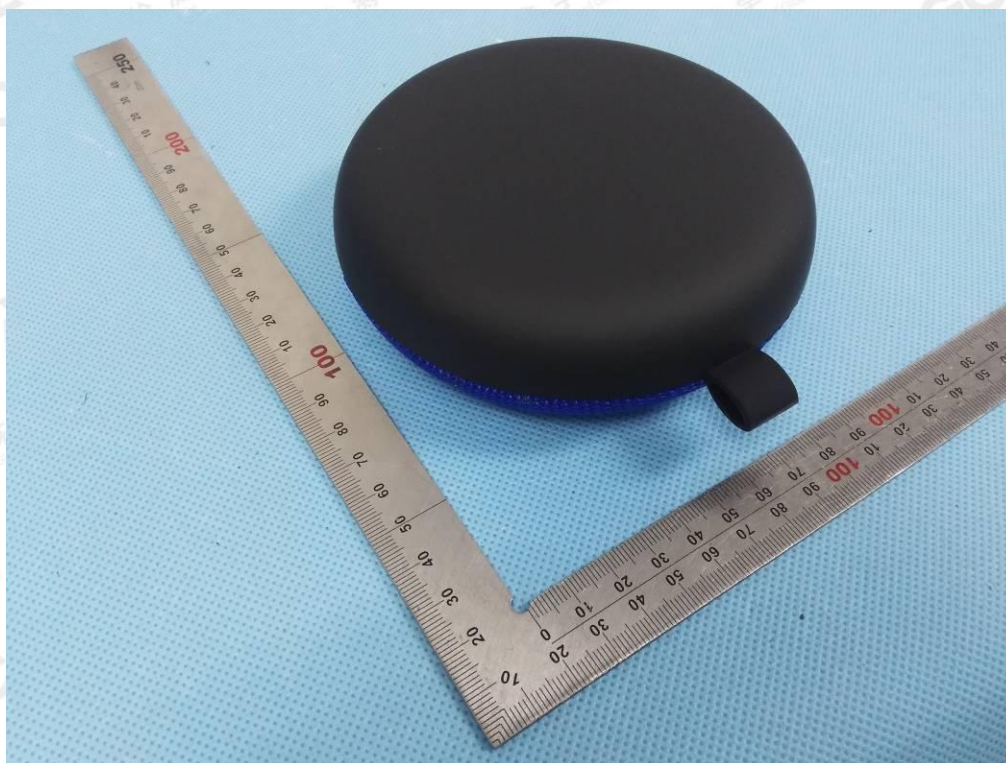


Fig.5 – overview

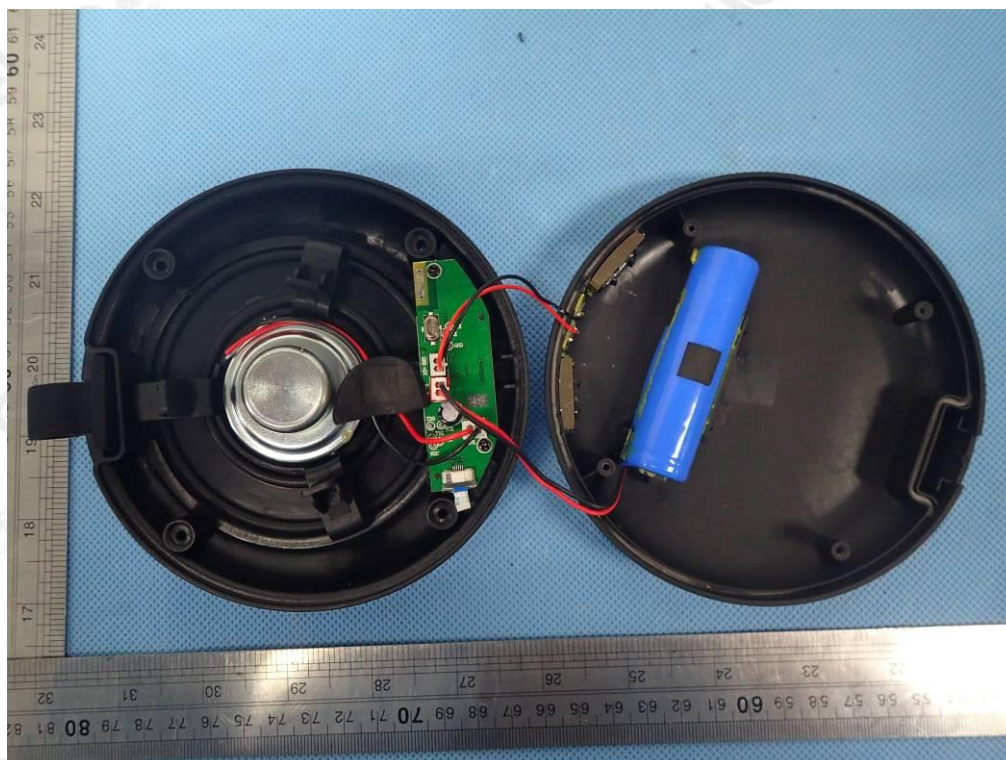


Fig.6 – uncover view

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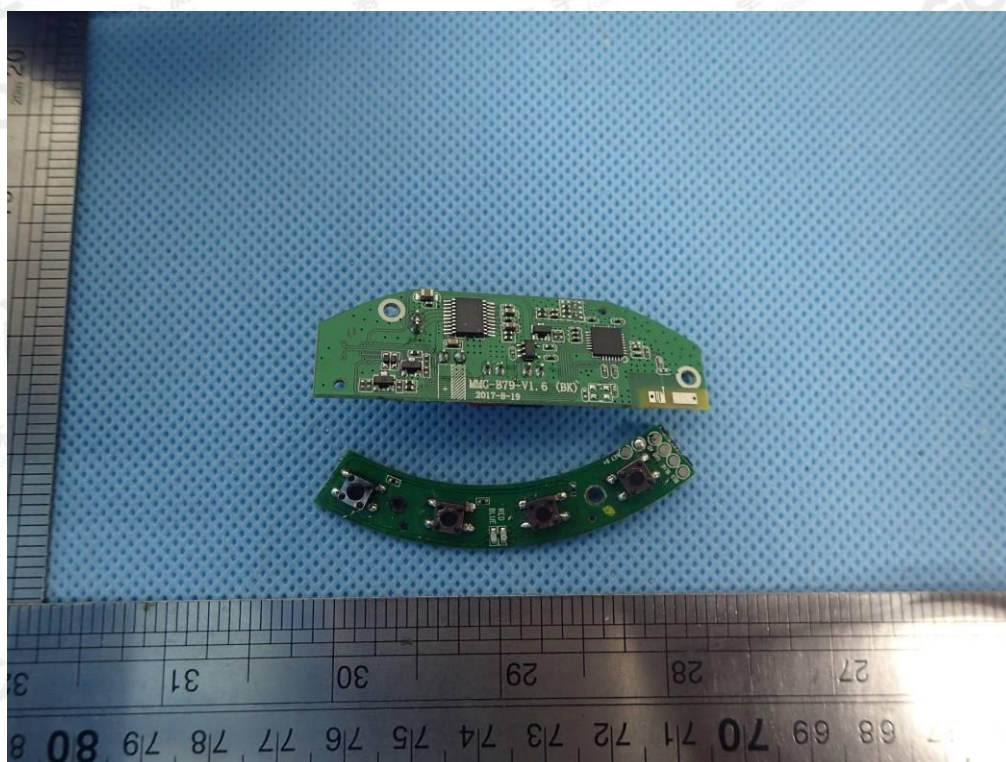


Fig.7 – partview

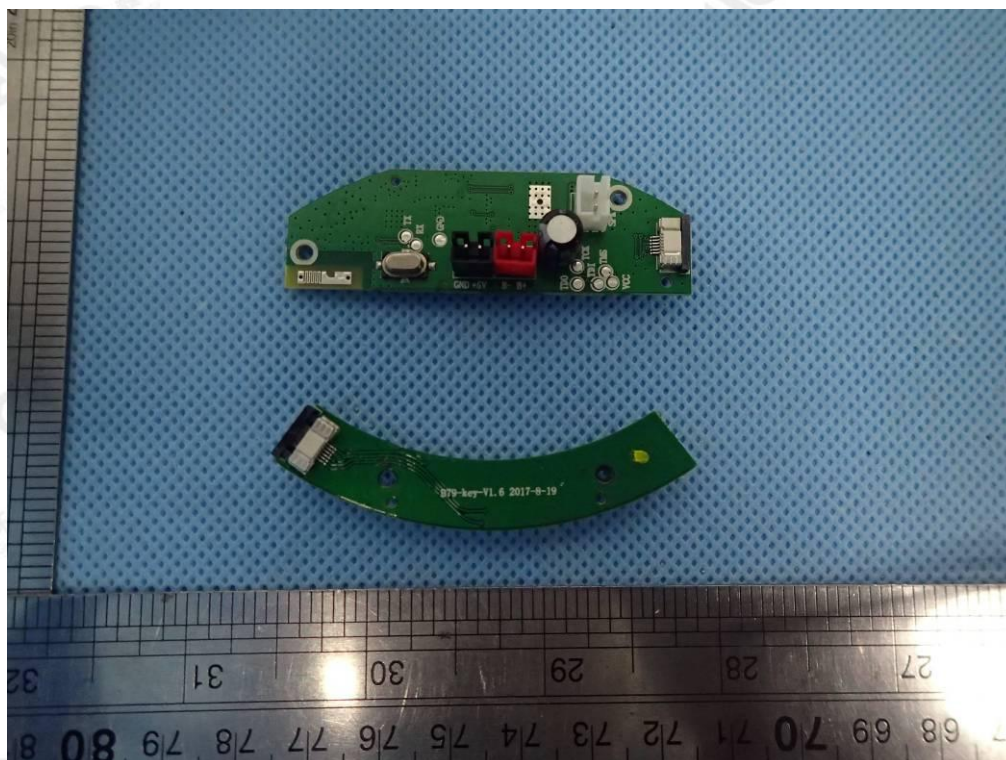


Fig.8 – partview

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Fig.9 – partview

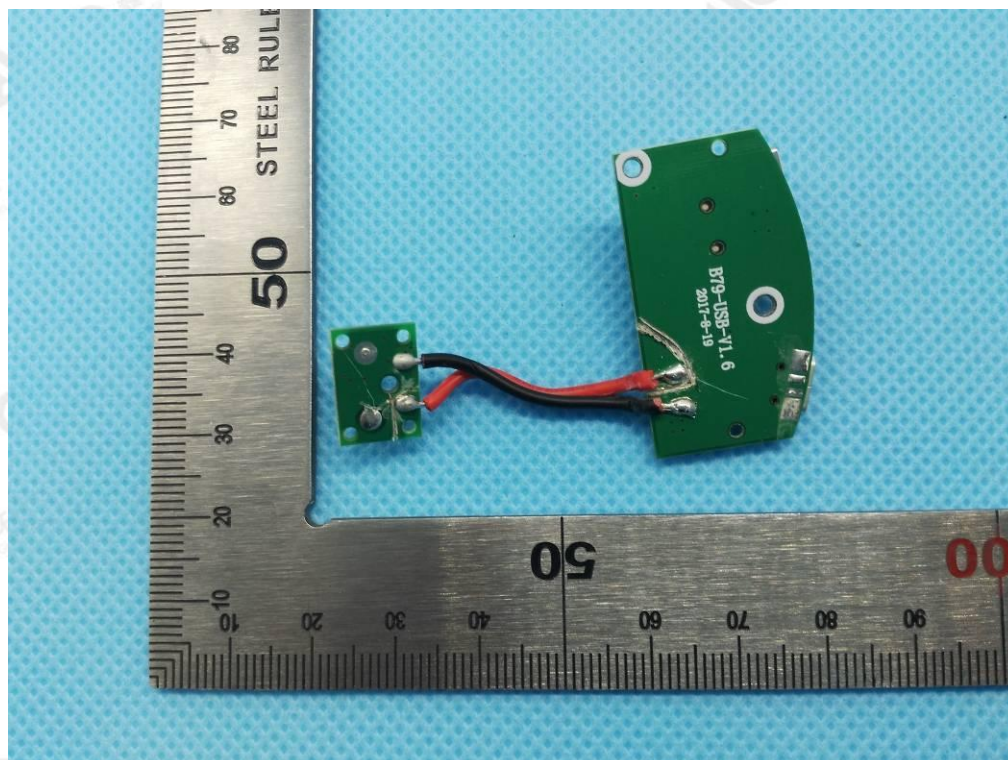


Fig.10 – partview

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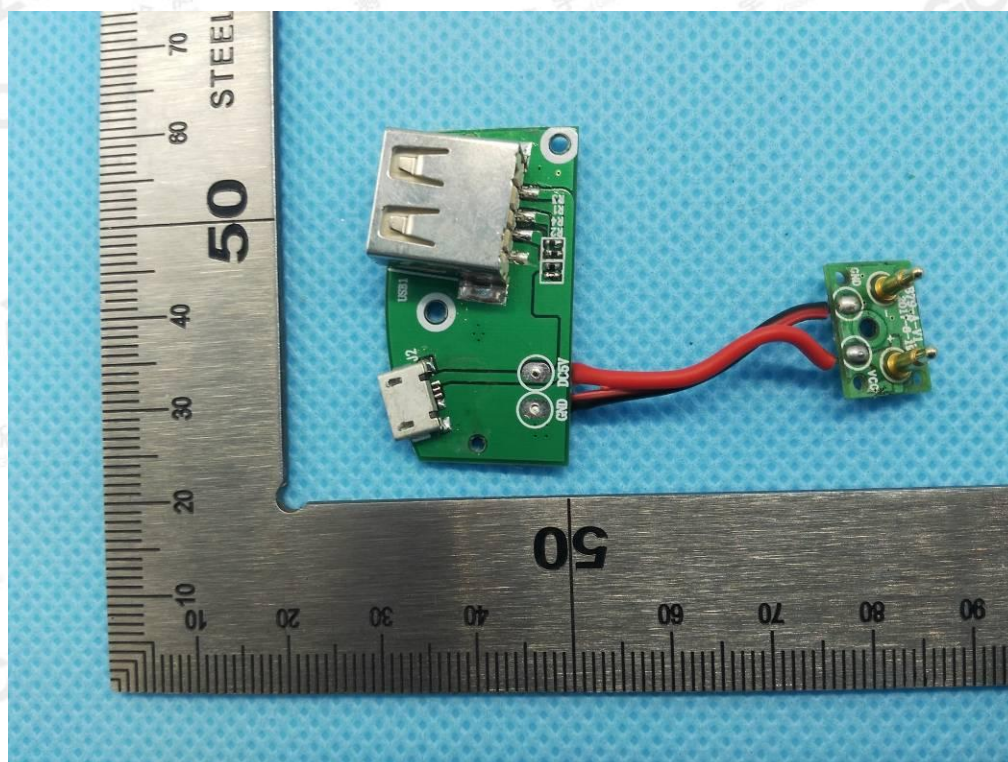


Fig.11 – partview



Fig.12 – Battery view

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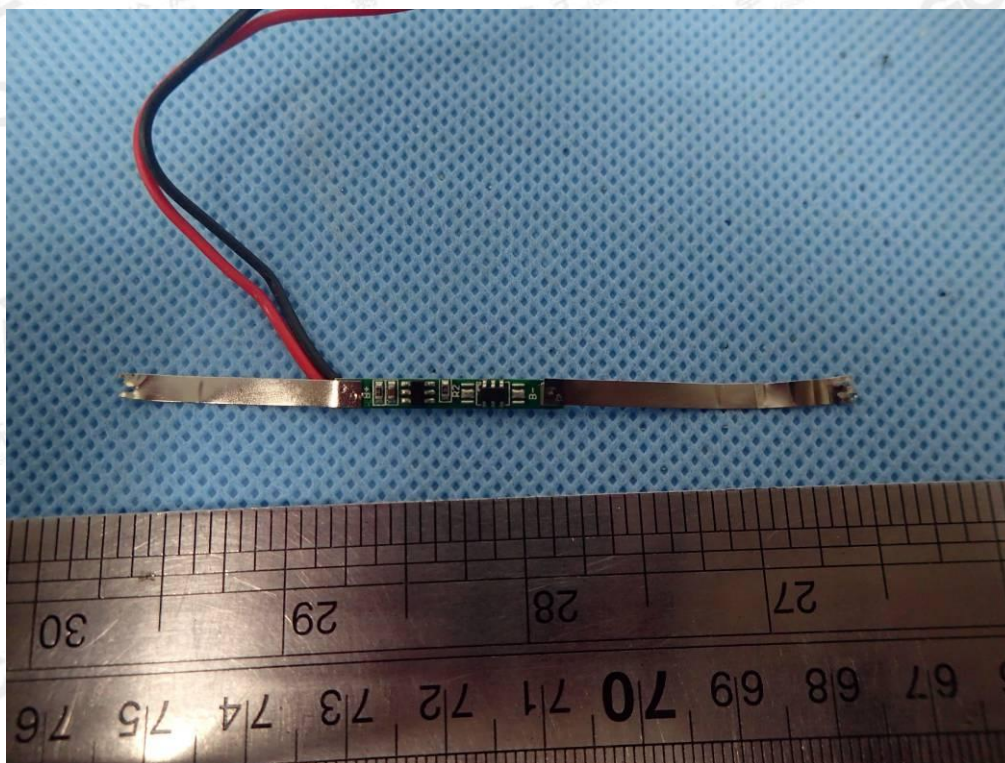


Fig.13 – Battery protect board view

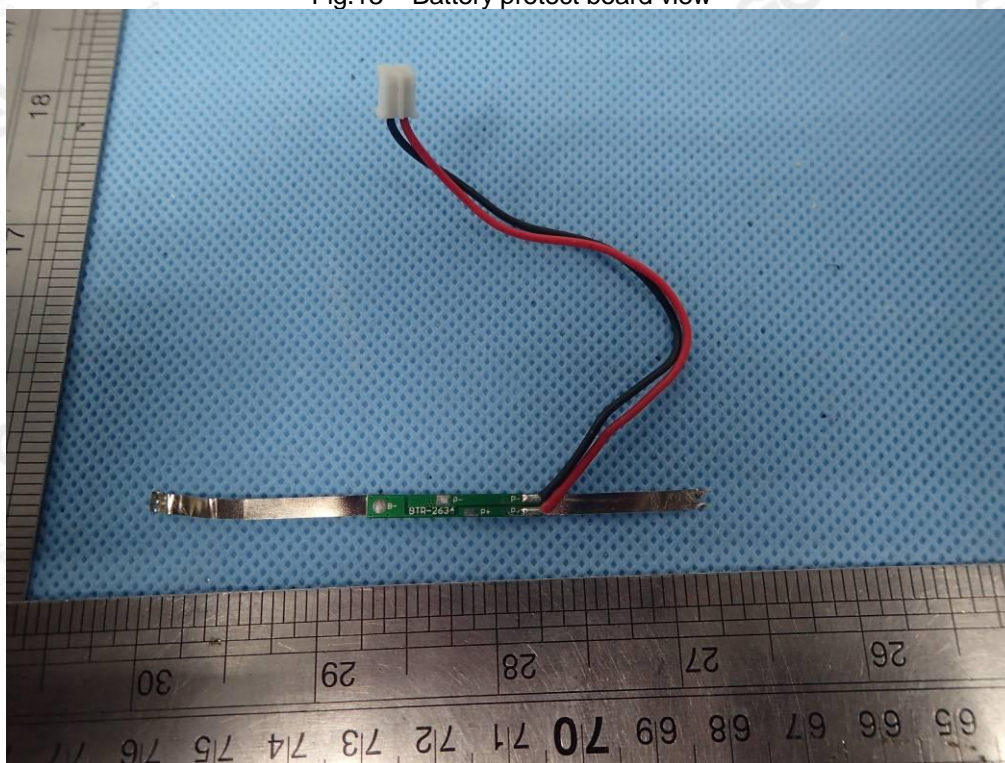


Fig.14 – Battery protect board view

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