



CE-LVD TEST REPORT

For
BLUETOOTH SPEAKER

Model No.: VT-6133, VT-6211, VT-6244

Applicant for : V-TAC EXPORTS LIMITED
ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD
CENTRAL, CENTRAL, HONGKONG

Manufacturer : V-TAC EXPORTS LIMITED(Hk) Co., Ltd
ROOM NO.301, KAM ON BUILDING 176A QUEENS ROAD
CENTRAL, CENTRAL, HONGKONG

Prepared By : Global-Standard Testing Service Co., Ltd.
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Report Number : GST.190806.A101S

Issued Date : August 09, 2019

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Note:

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TEST REPORT EN 60065 Information Technology Equipment including-Safety Part 1: General equipments	
Report reference No.:	GST.190806.A101S
Testing laboratory	Global-Standard Testing Service Co., Ltd.
Location.....:	Room 1505, Building B, Chuangxin Plaza, Pingshan Avenue, Pingshan District, Shenzhen, China.
Applicant.....:	V-TAC EXPORTS LIMITED(Hk) Co., Ltd
Address:.....:	Room 211, Building 3, MinLe Industrial Park, Longhua District, Shenzhen, Guangdong, China.
Manufacturer.....:	V-TAC EXPORTS LIMITED(Hk) Co., Ltd
Address:.....:	Room 211, Building 3, MinLe Industrial Park, Longhua District, Shenzhen, Guangdong, China.
Standards.....:	EN 60065:2014+A11:2017
Procedure deviation.....:	N/A
Non-standard test method.....:	N/A
Type of test equipment	BLUETOOTH SPEAKER
Trade mark.....:	N/A
Model/Type designation.....:	VT-6133, VT-6211, VT-6244
Rating.....:	Input: DC5V, 3.5A.
Copyright blank test report.....:	Global-Standard Testing Service Co., Ltd.
Test item particulars.....:	N/A
Equipment mobility.....:	Portable equipment
Operating Condition.....:	Continuous
Tested for IT power systems.....:	No
IT testing, phase-phase voltage (V).....:	N.A.
Class of equipment.....:	Class III equipment
Mass of equipment (Kg).....:	Approximately 0.605kg
Protection against ingress of water.....:	IP20

Possible test case verdicts :	
test case does not apply to the test object	N(/A.)
test object does meet the requirement	P(ass)
test object does not meet the requirement	F(ail)

Name and address of the testing laboratory :

Global-Standard Testing Service Co., Ltd.
Room 1505, Building B, Chuangxin Plaza, Pingshan Avenue,
Pingshan District, Shenzhen, China.

Tested by : John Huang Aug 05, 2019


Signature Date

John Huang / Engineer
Name/title

Reviewed by : Gloria Wang August 09, 2019

Signature Date

Gloria Wang / Supervisor
Name/title

Approved by :  August 09, 2019

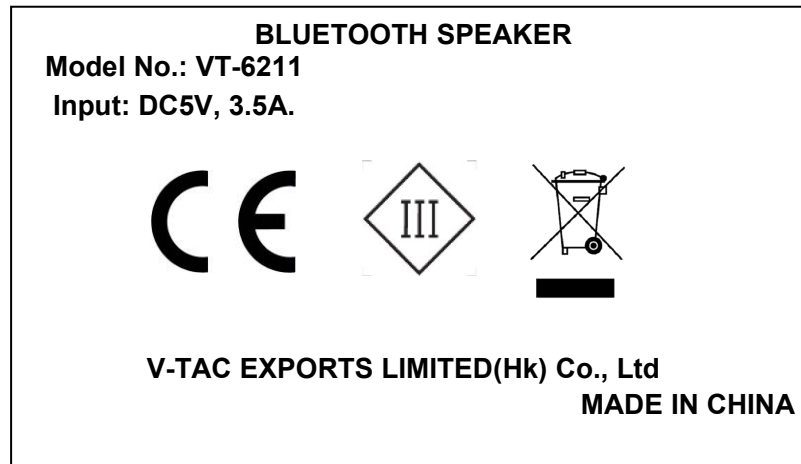
Signature Date

Nico Xie * Manager
Name/title

General remarks:	
<p>“(see remark #)” refers to a remark appended to the report.</p> <p>“(see appended table)” refers to a table appended to the report.</p> <p>Throughout this report a comma is used as the decimal separator.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p>Until otherwise specified, all tests are done under normal ambient condition $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$, Max RH: 75% and air pressure of 860 mbar to 1060 mbar.</p>	<p>Attached with:</p> <p>Attachment - A. Photo Documentation</p>
<p>General product information: Wireless Speaker, model VT-6133, VT-6211, VT-6244, manufactured by V-TAC EXPORTS LIMITED(Hk) Co., Ltd. The product shall be charged by a suitable rated, and built-in battery capacity: 3.7Vdc, 1800mAh. The maximum operating temperature is 25°C.</p>	



Copy of marking plate:

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



Remark:

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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
3	GENERAL REQUIREMENTS		
	Safety class of the apparatus	Not directly connect to the mains	N/A
4	GENERAL TEST CONDITIONS		
4.1.4	Ventilation instructions require the use of the test box	Tested according to user manual	P
5	MARKING AND INSTRUCTIONS		
5.1	General requirements		P
	Comprehensible and easily discernible	Label located on bottom enclosure, mentioned in user manual	P
	Permanent durability against water and petroleum spirit		P
5.2	Identification and supply rating		P
	a) Identification, maker		P
	b) Model number or type reference.....	VT-6211	P
	c) Class II symbol or Class II with functional earth symbol if applicable		N/A
	d) Nature of supply		P
	e) Rated supply voltage	5V	P
	f) Mains frequency if safety dependant		N/A
	g) Rated current or power consumption for apparatus supplied by supply apparatus for general use, on apparatus or in instruction manual.....	3.5A	P
	Measured current or power consumption	3.5A	P
	Deviation % (max 10%)		P
	h) Rated current or power consumption for apparatus intended for connection to an a.c. mains supply :		N/A
	Measured current or power consumption		N/A
	Measured current or power consumption for Television set		N/A
	Deviation % (max 10%)		N/A
	Symbols explained in the user manual		N/A
5.3	Terminals		N/A
	a) Earth terminal		N/A
	b) Hazardous live terminals		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	c) Markings on supply 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		N/A
	c) User-replaceable coin / button cell battery marking	Not such batteries used	N/A
5.5	Instructions		P
5.5.1	Safety relevant information	Provided	P
5.5.2	a) Mains powered equipment not exposed to dripping or splashing. Warning concerning objects filled with liquid, etc.		N/A
	b) Hazardous live terminals, instructions for wiring		N/A
	c) Instructions for replacing lithium battery		P
	d) Class I earth connection warning		N/A
	e) Instructions for multimedia system connection		N/A
	f) Special stability warning for attachment of the apparatus to the floor/wall		N/A
	g) Warning: battery exposure to heat	Mentioned in user manual	P
	h) Warning: protective film on CRT face		N/A
	i) Warning: Non-floor standing TV >7kg		N/A
	j) Warning: User replaceable coin / button cell battery		N/A
5.5.3	a-b) Disconnect device: plug/coupler or all-pole mains switch location, accessibility and markings		N/A
	c) Instructions for permanently connected equipment		N/A
	Marking, signal lamps or similar for completely disconnection from the mains		N/A
6	HAZARDOUS RADIATION		
6.1	Ionizing radiation < 36 pA/kg (0,5 mR/h)	No ionizing radiation	N/A
	Ionizing radiation under fault condition		N/A
6.2	Laser radiation, emission limits to IEC 60825-1:2007 :		N/A
	Emission limits under fault conditions :		N/A
6.3	Light emitting diodes (LEDs) according to IEC 62471	LEDs used for indicator	N/A
7	HEATING UNDER NORMAL OPERATING CONDITIONS		
7.1	General		P

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
7.1.1	Temperature rises not exceeding specified values; fuse links and other protective devices defeated		P
7.1.2	Temperature rise of accessible parts	(see appended table 7.1)	P
7.1.3	Temperature rise of parts providing electrical insulation		P
7.1.4	Temperature rise of parts acting as a support or as a mechanical barrier		P
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		P
7.2	Softening temperature of insulating material supporting parts conductively connected to the mains carrying a current > 0,2 A at least 150 °C		N/A
8	CONSTRUCTIONAL REQUIREMENTS WITH REGARD TO THE PROTECTION AGAINST ELECTRIC SHOCK		
8.1	Conductive parts covered by lacquer, paper, untreated textile oxide films and beads etc. considered to be bare	Not directly connect to the mains	N/A
8.2	No shock hazard when changing voltage setting device, fuse-links or handling drawers etc.	No such device	N/A
8.3	Insulation of hazardous live parts not provided by hygroscopic material	No hygroscopic material used	N/A
8.4	No risk of electric shock from accessible parts or from parts rendered accessible following the removal of a cover which can be removed by hand	No such cover	N/A
8.5	Class I apparatus		N/A
	Basic insulation between hazardous live parts and earthed accessible parts		N/A
	Resistors bridging basic insulation complying with 14.2 a)		N/A
	Capacitors bridging basic insulation complying with 14.3.2 a)		N/A
	Protective earthing terminal		N/A
8.6	Class II apparatus		N/A
	a) Basic and supplementary insulation between hazardous live parts and accessible parts		N/A
	b) Reinforced insulation between hazardous live parts and accessible parts		N/A
8.7	Components bridging insulation		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	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
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

IEC 60065			
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/A
8.15	Only special supply equipment can be used		N/A
8.16	Insulated winding wire without additional interleaved insulation		N/A
8.17	Endurance test as required by 8.16		N/A
8.18	Disconnection from the mains		N/A
	Disconnect device		N/A
	All-pole switch or circuit breaker with >3mm contact separation		N/A
	Mains switch ON indication		N/A
8.19	Switch not fitted in the mains cord		N/A
8.20	Bridging components comply with clause 14		N/A
8.21	Non-separable thin sheet material		N/A

9	ELECTRIC SHOCK HAZARD UNDER NORMAL OPERATING CONDITION		
9.1	Testing on the outside		N/A
9.1.1	General		N/A
9.1.1.1	Requirements		N/A
	Accessible parts shall not be hazardous live	Not directly connect to the mains	N/A
	Inaccessible terminals are not accessible or comply with relevant requirements		N/A
	For voltages >1000 V ac or >1500 V dc complies with clause 13.3.1 for basic insulation..... :		N/A
9.1.1.2	Determination of hazardous live parts		N/A
	a) Open circuit voltages		N/A
	b) Touch current measured from terminal devices using the network in annex D		N/A
	c) Discharge not exceeding 45 μ C		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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Terminal devices tested with 1 mm x 100 mm straight wire (1 N); test probe D of IEC 61032		N/A
9.1.5	Pre-set controls tested with 2.5 mm x 100 mm test pin (10 N); test probe C of IEC 61032		N/A
9.1.6	Withdrawal of the mains plug		N/A
	No shock hazard due to stored charge after 2 s ... :		N/A
	Bleeder resistor(s) comply with 14.2 or no shock hazard when open circuited		N/A
	If C is not greater than 0,1 µF no test needed		N/A
9.1.7	Resistance to external force		N/A
	a) Test probe 11 of IEC 61032 for 10 s (50 N)		N/A
	b) Test hook of fig. 4 for 10 s (20 N)		N/A
	c) 30 mm diameter test tool for 5 s (100 or 250 N)		N/A
9.2	No hazard after removing a cover by hand		N/A

10	INSULATION REQUIREMENTS		
10.2	Insulation resistance (MK) at least 2 MK min. after surge test for basic and 4 MK min. for reinforced insulation		N/A
10.3	Humidity treatment 48 h or 120 h		N/A
10.4	Insulation resistance and dielectric strength		N/A
	Between parts of different polarity directly connected to the mains		N/A
	Between parts separated by BASIC or SUPPLEMENTARY insulation		N/A
	Between parts separated by REINFORCED insulation		N/A

11	FAULT CONDITIONS		
11.1	No shock hazard under fault condition		P
11.2	Heating		P
11.2.1	Requirements		P
	No danger of fire to the surroundings		P
	Safety not impaired by abnormal heat		P
	Flames extinguish within 10 seconds		N/A
	No hazard from softening solder		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Soldered terminations not used as protective mechanism		P
11.2.2	Measurement of temperature rises	(see appended table 11)	P
11.2.3	Temperature rise of accessible parts	(see appended table 11)	P
11.2.4	Temperature rise of parts, other than windings and printed boards, providing electrical insulation		P
11.2.5	Temperature rise of parts acting as a support or mechanical barrier		P
11.2.6	Temperature rise of windings		N/A
11.2.7	Printed boards		P
	Temperature rise does not exceed the limits of table 3 or exceed the limits of table 3 by max. 100K for max. 5 min	(see appended table 11)	P
	a) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 by not more than 100 K for an area not greater than 2 cm ²		N/A
	b) Temperature rise of V-0 or VTM-0 printed circuit boards exceeding the limits of table 3 up to 300 K for an area not greater than 2 cm ² for a maximum of 5 min		N/A
	Meets all the special conditions if conductors on printed circuit boards are interrupted		N/A
	Class I protective earthing maintained		N/A
11.2.8	Temperature rise of parts not subject to the limits of 11.2.2 to 11.2.7 shall not exceed the limits in table 3, item e), "Fault conditions".		N/A

12	MECHANICAL STRENGTH		
12.1	Complete apparatus		P
12.1.1	The apparatus have adequate mechanical strength		P
12.1.2	Bump test where mass >7 kg	Approx. 0.605kg	N/A
12.1.3	Vibration test		P
12.1.4	Impact hammer test		P
	Steel ball test		P
12.1.5	Drop test for portable apparatus where mass \geq 7 kg	1000mm, 3 times	P
12.1.6	Thermoplastic enclosures stress relief test	70°C, 7 hrs	P
12.2	Fixing of knobs, push buttons, keys and levers		P
12.3	Remote controls with hazardous live parts		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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	Not coin/button cell batteries used	N/A
12.7.3	Tests		N/A
12.7.3.2	Stress relief test		N/A
12.7.3.3	Battery replacement test		N/A
12.7.3.4	Drop test		N/A
12.7.3.5	Impact test		N/A
12.7.3.6	Crush test		N/A
12.7.4	Battery not accessible; or not removable		N/A

13	CLEARANCES AND CREEPAGE DISTANCES		
13.1	Clearances in accordance with 13.3		P
	Creepage distances in accordance with 13.4		P
13.2	Determination of working voltage	(see appended table 13)	P
13.3	Clearances		P
13.3.1	Comply with 13.3 or Annex J		P
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	(see appended table 13)	P
13.3.4	Measurement of transient voltages		N/A
13.4	Creepage distances not less than appropriate table 11 minimum values	(see appended table 13)	P
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
13.6	Conductive parts along uncemented joints clearances and creepage distances comply with 13.3 and 13.4		N/A
	Conductive parts along reliably cemented joints comply with 8.8		N/A
	Temperature cycle test and dielectric strength test		N/A
	500V test for transformers, magnetic coupler and similar devices, if insulation is relied upon for safety		N/A
13.7	Enclosed, enveloped or hermetically sealed parts not conductively connected to the mains, clearances and creepage distances as in table 12		N/A
13.8	Parts filled with insulating compound, meeting the requirements of 8.8		N/A
14	COMPONENTS		
14.1	Flammability according to IEC 60695-11-10 or annex G, or 20.2.5		P
14.2	Resistors		N/A
	Resistors separately approved		N/A
	a) Resistors between hazardous live parts and accessible metal parts		N/A
	b) Resistors, other than between hazardous live parts and accessible parts		N/A
14.3	Capacitors and RC units		N/A
	Capacitors separately approved		N/A
14.3.1	Damp heat test duration 21 days		N/A
14.3.2	Y capacitors tested to IEC 60384-14:2005		N/A
14.3.3	X capacitors tested to IEC 60384-14:2005		N/A
14.3.4	Capacitors operating at mains frequency but not connected to the mains: tests for X2		N/A
14.3.6	Capacitors with volume exceeding 1750 mm ³ , where short-circuit current exceeds 0,2 A: compliance with IEC 60384-1, 4.38 category B or better	Metal-cased capacitors used	N/A
	Capacitors with volume exceeding 1750 mm ³ , mounted closer to a potential ignition source than table 13 permits: compliance with IEC 60384-1, 4.38 category B or better		N/A
14.4	Inductors and windings		N/A
14.4.1	Comply with IEC 61558-1, IEC 61558-2 (as relevant) and clause 20.2.5		N/A
	Transformers and inductors separately approved		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
14.4.2	Transformers and inductors marked with manufacturer's name and type		N/A
14.4.3	General		N/A
	Insulation material complies with clause 20.2.5		N/A
14.4.4	Constructional requirements		N/A
14.4.4.1	Clearances and creepage distances comply with clause 13		N/A
14.4.4.2	Transformers meet the constructional requirements		N/A
14.4.5	Separation between windings		N/A
14.4.5.1	Class II transformers have adequate separation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
	Coil formers and partition walls > 0,4 mm		N/A
14.4.5.2	Class I transformers, with basic insulation and protective screening only if all 7 conditions are met		N/A
14.4.5.3	Separating transformers with at least basic insulation		N/A
14.4.6	Insulation between hazardous live parts and accessible parts		N/A
14.4.6.1	Class II transformers have adequate insulation between hazardous live parts and accessible parts (double or reinforced insulation)		N/A
	Coil formers and partition walls > 0,4 mm		N/A
14.4.6.2	Class I transformers have adequate insulation between hazardous live parts and accessible conductive parts or those conductive parts or protective screens connected to a protective earth terminal		N/A
	Winding wires connected to protective earth have adequate current-carrying capacity		N/A
14.5	High voltage components and assemblies (U > 4kV peak)		N/A
14.5.1	Component meets category V-1 of IEC 60695-11-10		N/A
14.5.2	High voltage transformers and multipliers		N/A
14.5.3	High voltage assemblies and other parts		N/A
14.6	Protective devices		N/A
14.6.1	Protective devices used within their ratings		N/A
	External clearances and creepage distances meet requirement of clause 13 for the voltage across the device when opened		N/A
14.6.2	Thermal releases		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
14.6.2.1	Comply with 14.6.2.2, 14.6.2.3 or 14.6.2.4		N/A
14.6.2.2	a) Thermal cut-outs separately approved	No thermal cut-out	N/A
	b) Thermal cut-outs tested as part of the submission		N/A
14.6.2.3	a) Thermal links separately approved	No thermal links	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	No fuse-links used	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		P
14.7.1 a)	Separate testing to IEC 61058-1 including: - 10 000 operations - Normal pollution suitability - For CRT TV's, make and break speed independent of speed of actuation - V-0 or compliance with G.1.1		N/A
14.7.1 b)	Tested in the apparatus		N/A
	Switch controlling > 0.2A with open contact voltage > 35 V (peak) / 24 V dc complying with 14.7.3, 14.6.4 and V-0 or G.1.1		N/A
	Switch controlling > 0.2A with open contact voltage < 35 V (peak) / 24 V dc complying with 14.7.3 and V-0 or G.1.1		N/A
	Switch controlling Š 0.2A with open contact voltage > 35 V (peak)/24 V dc complying with 14.7.4 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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
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		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 motors used	N/A
	b) Motor start test		N/A
	Dielectric strength test		N/A
14.10.2	Not adversely affected by oil or grease etc.		N/A
14.10.3	Protection against moving parts		N/A
14.10.4	Motors with phase-shifting capacitors, three-phase motors and series motors meet clause. B.8, B.9 and B.10 of IEC 60950-1, Annex B		N/A
14.11	Batteries		P
14.11.1	Comply with IEC 62133 if applicable		P
	Batteries mounted with no risk of accumulation of flammable gases		P
14.11.2	No possibility of recharging user replaceable non-rechargeable batteries	Battery not intend to be replaced user	N/A
14.11.3	Recharging currents and times within manufacturers limits		P
	Lithium batteries discharge and reverse currents within the manufacturers limits		P
14.11.4	Battery mould stress relief		N/A
14.11.5	Battery drop test		N/A
14.12	Optocouplers		N/A
	Comply with constructional requirements of clause 8		N/A
	External clearances and creepage comply with 13.1		N/A
	Compound completely filling the casing or internal clearances and creepage comply with 13.1		N/A
	a) Complies with 13.6 (jointed insulation) and N.3.2		N/A
	b) Complies with IEC 60747-5-5:2007		N/A
	c) Complies with 13.8		N/A
14.13	Surge suppression varistors		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Comply with IEC 61051-2		N/A
	Not connected between mains and accessible parts except for earthed parts of permanently connected apparatus		N/A
	GDT bridging basic insulation complies with electric strength and distance requirements		N/A
	Complies with the climatic, voltage, current pulse, fire hazard and thermal stress requirements of 14.13		N/A

15	TERMINALS		
15.1	Plugs and sockets		N/A
15.1.1	Mains plug, appliance inlet, interconnection couplers and mains socket-outlet meet the appropriate standard		N/A
	Overloading of plugs or appliance inlets prevented if the apparatus has mains socket outlets		N/A
	Overloading of internal wiring prevented if the apparatus has mains socket outlets		N/A
15.1.2	Design of connectors other than for mains power		N/A
	Design of sockets with symbol of 5.3 b) design		N/A
15.1.3	Design of terminals and connectors used in output circuits of supply apparatus		N/A
15.2	Provision for protective earthing		N/A
	Accessible conductive parts of Class I equipment reliably connected to earth terminal, within equipment	Not directly connect to mains	N/A
	Protective earth conductors correctly fixed and coloured		N/A
	Separate protective earth terminal near mains terminal and comply with 15.3		N/A
	Protective earth terminal resistant to corrosion		N/A
	Earth resistance test: $< 0,1 \phi_{t}$ at 25 A		N/A
15.3	Terminals for external flexible cords and for permanent connection to the mains supply		N/A
15.3.1	Adequate terminals for connection of permanent wiring		N/A
15.3.2	Reliable connection of non-detachable cords		N/A
	Not soldered to conductors of a printed circuit board		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Adequate clearances and creepage distances between connections should a wire break away		N/A
	Wire secured by additional means to the conductor		N/A
15.3.3	Screws and nuts clamping conductors have adequate threads: ISO 261, ISO 262 or similar		N/A
15.3.4	Conductors adequately fixed (two independent fixings)		N/A
15.3.5	Terminals allow connection of conductors having appropriate cross-sectional area		N/A
15.3.6	Terminals to 15.3.3 have sizes required by table 16		N/A
15.3.7	Terminals clamp conductors between metal and have adequate pressure		N/A
	Terminals designed to avoid conductor slipping out when tightened		N/A
	Terminals adequately fixed when tightened or loosened (no loosening, wiring not stressed, distances not reduced)		N/A
15.3.8	Terminals carrying a current more than 0,2A: contact pressure not transmitted by insulating material except ceramic		N/A
15.3.9	Termination of non-detachable cords: wires terminated near to each other		N/A
	Terminals located and shielded: test with 8 mm strand		N/A
15.4	Devices forming a part of the mains plug		N/A
15.4.1	No undue strain on mains socket-outlets		N/A
15.4.2	Device complies with standard for dimensions of mains plugs		N/A
15.4.3	Device has adequate mechanical strength (tests a,b,c)		N/A

16	EXTERNAL FLEXIBLE CORDS		
16.1	Mains cords sheathed type, complying with IEC 60227 for PVC or IEC 60245 for synthetic rubber cords		N/A
	Non-detachable cords for Class I have green/yellow core for protective earth		N/A
16.2	Mains cords conductors have adequate cross-sectional area for rated current consumption of the equipment		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
16.3	Flexible cords not complying with 16.1, used for interconnections between separate units of equipment used in combination and carrying hazardous live voltages comply with a) and b)		N/A
16.4	Flexible cords used for connection between equipment have adequate cross-sectional areas to avoid temperature rise under normal and fault conditions		N/A
16.5	Adequate strain relief on external flexible cords		N/A
	Not possible to push cord back into equipment		N/A
	Strain relief device unlikely to damage flexible cord		N/A
	For mains cords of Class I equipment, hazardous live conductors become taut before earth conductor		N/A
16.6	Apertures for external flexible cord: no risk of damage to the cord during assembly or movement in use		N/A
16.7	Transportable apparatus have appliance inlet according to IEC 60320-1 or means of stowage to protect the cord		N/A

17	ELECTRICAL CONNECTIONS AND MECHANICAL FIXINGS		
17.1	Table 20 torque test metal thread, 5 times		N/A
	Table 20 torque test non-metallic thread, 10 times ...	0.4Nm for screws fixing enclosure	P
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		P
17.4	No loosening of conductive parts carrying a current > 0,2 A		P
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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
17.9	Internal pluggable connections, affecting safety, unlikely to become disconnected	Fixed adequately	P
18	MECHANICAL STRENGTH OF PICTURE TUBES AND PROTECTION AGAINST THE EFFECTS OF IMPLOSION		
18.1	Comply with IEC 61965 or 18.2		N/A
18.2	Non-intrinsically protected tubes		N/A
19	STABILITY AND MECHANICAL HAZARDS		
19.1	Apparatus > 7kg have adequate stability or is required to be fastened in place and provided with the warning of 5.5.2 f)	Approx. 0.605Kg	N/A
19.2	Test at 10° to the horizontal		N/A
19.3	Vertical force test 100 N applied downwards		N/A
19.4	Horizontal force test, 100 N or 13% of weight, applied horizontally to point of least stability		N/A
19.5	Edges or corners not hazardous		P
19.6	Mechanical strength of glass		N/A
19.6.1	Glass surfaces (exc.laminated) with an area exceeding 0,1 m ² or major dimension > 450 mm, pass the test of 12.1.4		N/A
19.6.2	Fragmentation test		N/A
19.7	Wall or ceiling mounting means		N/A
20	RESISTANCE TO FIRE		
20.1	Start and spread of fire is prevented		P
20.2	Electrical components and mechanical parts		P
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	PCB: V-0	P
20.2.2	Electrical components meet the requirements of Clause 14 or 20.2.5		P
20.2.3	Insulation of internal wiring working at voltages > 4 kV or leaving an internal fire enclosure, or located within the areas mentioned in Table 21, comply with G.2		N/A

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
20.2.4	Material of printed circuit boards on which the available power exceeds 15 W at a voltage between 50 V and 400 V (peak) a.c. or d.c. meets V-1 or better to IEC 60695-11-10, unless used in a fire enclosure		N/A
	Material of printed circuit boards on which the available power exceeds 15 W at a voltage >400 V (peak) a.c. or d.c. meets V-0 to IEC 60695-11-10.		N/A
20.2.5	Components and parts not covered by 20.1.1, 20.1.2 and 20.1.3 (other than fire enclosures) mounted nearer to a potential ignition source than the distances in Table 21 comply with the relevant flammability category in Table 21	(see appended table 14)	P
	Components and parts as above but shielded from a potential ignition source, with the barrier area in accordance with Table 21 and fig. 13		N/A
	Apparatus with voltages >4kV under normal operating conditions and distances to the enclosure exceed those specified Table 21, flammability classification HB40 or better is required for the enclosure		N/A
20.3	Fire enclosure		N/A
20.3.1	Potential ignition sources with open circuit voltage > 4 kV (peak) a.c. or d.c. contained in a fire enclosure to V-1		N/A
20.3.2	Internal fire enclosures with openings not exceeding 1 mm in width and with openings for wires completely filled		N/A
20.3.3	Requirements of 20.2.1 and 20.2.2 met by an internal fire enclosure		N/A
ANNEX A	ADDITIONAL REQUIREMENTS FOR APPARATUS WITH PROTECTION AGAINST SPLASHING WATER		
A.5	Marking and instructions		N/A
A.5.1	A.5.2 i) Marked with at least IPX4 (IEC 60529) 5.5.2 a) does not apply		N/A
A.10	Insulation requirements		N/A
A.10.3	Splash and humidity treatment		N/A
A.10.3.1	The enclosure provide adequate protection against splashing water		N/A
A.10.3.2	Complies with 10.3,duration of the test is 168h		N/A
ANNEX B	APPARATUS TO BE CONNECTED TO TELECOMMUNICATION THE TELECOMMUNICATION NETWORKS		

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
	Complies with IEC 62151 clause 1		N/A
	Complies with IEC 62151 clause 2		N/A
	Complies with IEC 62151 clause 3 modified		N/A
	Complies with IEC 62151 clause 4 modified		N/A
	Complies with IEC 62151 clause 5 modified		N/A
	Complies with IEC 62151 clause 6		N/A
	Complies with IEC 62151 clause 7		N/A
	Complies with IEC 62151 annex A, B and C		N/A

ANNEX L	ADDITIONAL REQUIREMENTS FOR ELECTRONIC FLASH APPARATUS FOR PHOTOGRAPHIC PURPOSES		
L.5	Marking and instructions		N/A
L.5.5.1	Instructions for battery chargers and Supply apparatus indicating type or model number of flash apparatus with which it is to be used		N/A
	Instructions for flash apparatus indicating type or model number of battery chargers or Supply apparatus with which it is to be used		N/A
L.7	Heating under normal operating conditions		N/A
L.7.1.6	Lithium batteries meet permissible temp rise in Table 3		N/A
L.9	Electric shock hazard under normal operating conditions		N/A
L. 9.1.1.1	Terminals for connection to synchroniser not hazardous live		N/A
L.14	Components		N/A
L.14.6.7	Mains switch characteristics appropriate to its function under normal conditions		N/A

7.1	TABLE: Heating Test						P	
	Ambient (°C)						See below	—
	Loudspeaker impedance (K)						4 ohm	—
Cond.	U _n (V)	Hz	I _n (A)	P _n (W)	U _{out} (V)	P _{out} (W)	Operating Condition / Status	
Charging condition with empty battery, normal operation.								
No.1	5.0VDC	--	0.4	2.0	--	--	All signal input modes were considered, recorded the worst condition. Normal operation with max. Non-clipped output power. Battery current: 0.23A	
Charging condition with empty battery.								

IEC 60065								
Clause	Requirement + Test						Result - Remark	Verdict
No.2	5.0VDC	--	0.4	2.0	--	--	Only charging, charging current: 0.048A	
Fully charged battery operated in normal operation.								
No.3	3.7VDC	--	0.436		--	--	All signal input modes were considered, recorded the worst condition. Normal operation with max. Non-clipped output power. Battery current: 0.436A	
Test condition No.								
				No. 1		No. 3		
				dT (K)		dT (K)		
						dT (K) limit		
lead wire of battery				17.5		22.3		
Battery surface				5.4		10.3		
U1				39.4		21.6		
U2				38.7		25.5		
Enclosure inside near battery				21.9		1.5		
Enclosure outside near battery				6.3		1.0		
Enclosure inside near main board				24.8		14.2		
Enclosure outside near main board				11.4		15.8		
Ambient				24.1°C		23.6°C		
Supplementary information:								

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

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

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

IEC 60065			
Clause	Requirement + Test	Result - Remark	Verdict
Supplementary information:			

10.4	TABLE: Insulation Resistance Measurements			N/A
Insulation resistance R between:		R (MK)	Required R (MK)	
Supplementary information:				
11	TABLE: Fault Conditions			P
No.	Component	Fault	dT (K) / Component	Test conditions, test duration, test result
Charging condition with empty battery, normal work				
1	Speaker	S-C	Enclosure: 4.0K PCB: 23.7K Ambient: 26.9°C	The speaker shut down, no damage, no hazards. Input current: 0.4A Battery current: 0.04A. Duration: 4 hrs.
Charging condition with empty battery, only charging				
2	R24 on mains PCB	S-C	Enclosure: 13.7K PCB: 31.6K Ambient: 24.8°C	Unit keep work as normal, no damage, no hazards. Input current: 0.4A Battery current: 0.356A Duration: 1 hrs.
3	B- to P- on battery protect PCB	S-C	-	Unit keep work as normal, no damage, no hazards. Input current: 0.4A Battery current: 0.047A Duration: 7 hrs.
Discharging condition with fully charged battery				
4	B- to P- on battery protect PCB	S-C	-	Unit keep work as normal, no damage, no hazards. Battery current: 0.436A Duration: 10 mins.
5	Speaker	S-C	Enclosure: 3.9K PCB: 17.1K Ambient: 23.3°C	The speaker shut down, no damage, no hazards. Battery current: 0.024A. Duration: 5 hrs.
6	U2 pin3-8	S-C	Enclosure: 8.8K PCB: 20.4K Ambient: 26.8°C	Unit keep work as normal, no damage, no hazards. Battery current: 0.73A Duration: 1 hrs.

IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
7	U2 pin4-5	S-C	Enclosure: 7.2K PCB: 17.5K Ambient: 26.8°C	Unit keep work as normal, no damage, no hazards. Battery current: 0.74A Duration: 1 hrs.	
8	U2 pin3-4	S-C	-	Unit shutdown immediately, no damage, no hazards. Battery current: 0.02A Duration: 7 hrs.	
9	Battery B+ to B- on the PCB	S-C	--	Unit shutdown immediately, battery no fire, no explosion and no leakage, no hazard. Battery current: 0A. Duration: 10mins.	

Supplementary information:

- 1) S-C: short circuit;
- 2) Enclosure limited: 65K, PCB limited: 110K.

13	TABLE: Clearance And Creepage Distance Measurements					P
Rated supply voltage:	5VDC	Pollution degree...:	2	Material Group ...:	IIIb	
2 N force on internal parts applied:						N/A
30 N force on outside of conductive enclosure applied:						N/A
clearance and creepage distance at/of:	Working voltage (V)		Clearance (mm)		Creepage (mm)	
	U peak	U r.m.s.	Required	Measured	required	Measured
B+ to B-	4.2	4.2	0.4	0.8	0.4	0.8
Supplementary information:						

14	TABLE: Critical components information					P
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾	
-Cell	Shenzhen CWC Technology Co., Ltd	ST801525	3.7V, 230mAh	IEC 62133: 2017	Intertek	
-Wire	Dongguan Wenchang Electronic Co Ltd	1007	32AWG, 80°C	UL 758	UL	
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL 94, UL796	UL	

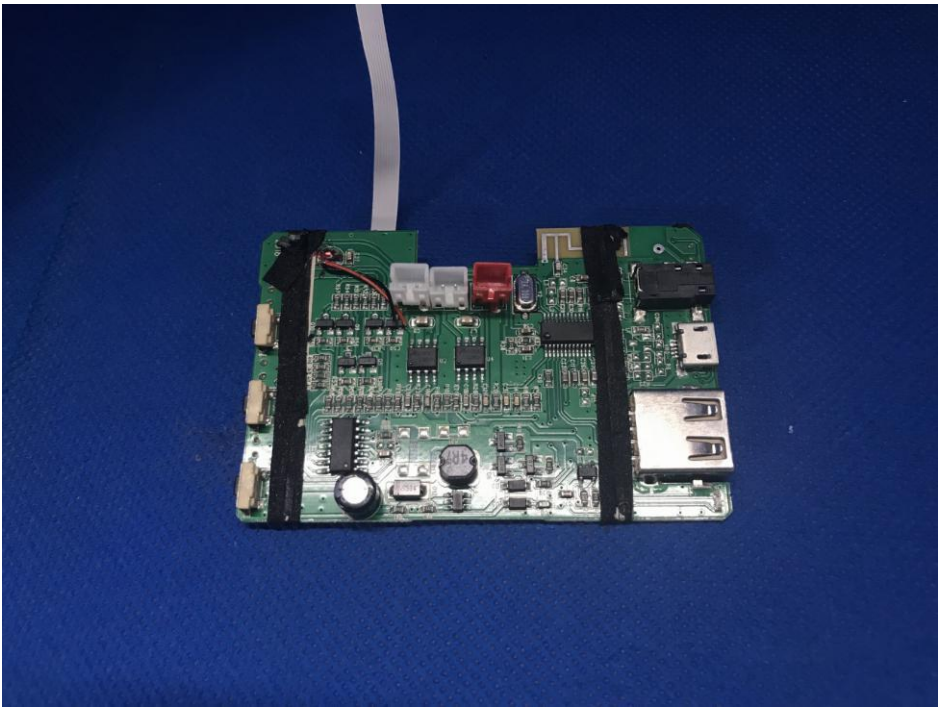
IEC 60065					
Clause	Requirement + Test			Result - Remark	Verdict
Plastic enclosure inside	Silver Age Engineering Plastics (Dongguan) Co., Ltd.	1660	Min. thickness 0.8mm, V-0, 130°C	UL 94	UL
Speaker	Interchangeable	Interchangeable	4K, 2W	IEC/EN 60065	Tested with appliance
Switch	Salecom Electronics Co Ltd	T80-S	250VAC, 3A or 125VAC, 6A, 55°C, 10K cycles	UL 61058-1	UL
Internal wire	Interchangeable	Interchangeable	Min 24AWG, 300V, Min 80°C	UL 758	UL
Supplementary information: 1) An asterisk indicates a mark which assures the agreed level of surveillance.					

Attachment – A
Photo Documentation

<p>Photo 1</p> <p>View:</p> <p><input checked="" type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input type="checkbox"/> Internal</p>	
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<p>Photo 2</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input checked="" type="checkbox"/> Internal</p>	
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<p>Photo 5</p> <p>View:</p> <p><input type="checkbox"/> Front</p> <p><input type="checkbox"/> Rear</p> <p><input type="checkbox"/> Right side</p> <p><input type="checkbox"/> Left side</p> <p><input type="checkbox"/> Top</p> <p><input type="checkbox"/> Bottom</p> <p><input checked="" type="checkbox"/> Internal</p>	
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---END---