

## TEST REPORT

Applicant: VTECH ELECTRONICS LIMITED  
23/F BLK 1 TAI PING IND CTR  
57 TING KOK RD  
TAI PO NT  
HK

Number: HKGH02979271

Date: May 12, 2023

Attn: R.Y. LI / LEDA YANG

Sample and Information provided by customer :

Item Name : **KIDIZOOM DUO FX, WITH HEADPHONE, BLUE, VTFR**  
Style No : **80-519905/80-519989/80-519901/80-519902/80-519903/80-519904/80-519900/80-519906/80-519907/80-519918/80-519919/80-519922/80-519923/80-519924/80-519925/80-519939/80-519949/80-519952/80-519953/80-519954/80-519955/80-519957/80-519961/80-519962/80-519963/80-519964/80-519965/80-519966/80-519967/80-519968/80-519969/80-519970/80-519959/80-5199XX**  
Quantity : 6 sets  
Labelled Age Group : 4-10 Years  
Appropriate age grade : Ages over 3 years  
Packaging Provided : Yes  
Date Code : VT23091F



For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President



# TEST REPORT

Number : HKGH02979271

**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) The measured emission level of the apparatus did not exceed the accessible emission level of class 1 according to IEC 60825-1: 1993 + A1: 1997 + A2: 2001 and the apparatus was classified as "Class 1 LED Product".	
(2) EN 62115 : 2005 + A12 : 2015 Safety of electric toys	Pass (Subjected to remark enclosed)
(3) EN IEC 62115 : 2020 + A11 : 2020 on Safety of electric toys	Pass (Subjected to remark enclosed)
(4) The measured emission level of the apparatus did not exceed the accessible emission limit according to EN IEC 62115: 2020 + A11: 2020, Annex E	
(5) AS/NZS 62115 : 2018 + A1 : 2021 Safety of electric toys	Pass (Subjected to remark enclosed)
(6) The measured emission level of the apparatus did not exceed the accessible emission limit according to AS/NZS 62115:2018+A1:2021 , Annex E	
(7) IEC 62115:2017+Cor1:2019 Safety of electric toys	Pass (Subjected to remark enclosed)
(8) The measured emission level of the apparatus did not exceed the accessible emission limit according to IEC 62115: 2017+Cor1:2019 , Annex E	
(9) The measured emission level of the apparatus did not exceed the accessible emission limit according to IEC 62115: 2017+Cor1:2019 , Annex E	

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**Decision Rule(s):**

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>  
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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## TEST REPORT

Number : HKGH02979271

(1) Lasers and light-emitting diodes radiation

Test Standard : IEC 60825-1: 1993 + A1: 1997 + A2: 2001 Safety of laser products - Part 1: Equipment classification, requirements and user's guide

Clause	Title/Description	Result
1	Scope and object	—
2	Normative references	—
3	Definitions	—
4	Engineering specifications	Not Applicable
5	Labelling	Not Applicable
6	Other informational requirements	Not Applicable
7	Additional requirements for specific laser products	Not Applicable
8	Classification	Complied
9	Measurement for classification	Complied



Page 3 of 27



# TEST REPORT

Number : HKGH02979271

Table of measuring data

For White LED wavelength at first peak used in monitor unit (yellow diffused)								
Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	459nm	4.01mrad	21.1mm	19.2μW	1.0mW	36.5mm	218.0μJ	5.9mJ
Fault (without cover)	459nm	4.01mrad	21.1mm	22.5μW	1.0mW	36.5mm	176.5μJ	5.9mJ

For White LED wavelength at second peak used in monitor unit (yellow diffused)								
Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	563nm	4.01mrad	21.1mm	15.5μW	1.0mW	36.5mm	132.4μJ	709.7mJ
Fault (without cover)	563nm	4.01mrad	21.1mm	18.4μW	1.0mW	36.5mm	163.0μJ	709.7mJ

For White LED wavelength at first peak used in flash light (white diffused)								
Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	452nm	22.02mrad	47.4mm	290.3μW	5.1mW	100.0mm	404.2μJ	4.3mJ
Fault (without cover)	452nm	22.02mrad	47.4mm	1.3mW	5.1mW	100.0mm	2.2mJ	4.3mJ



# TEST REPORT

Number : HKGH02979271

For White LED wavelength at second peak used in flash light (white diffused)								
Condition	Measured Wavelength	Measured Angular Subtense	Thermal Hazard			Photochemical Hazard		
			Measuring Distance	Measured Power	Limit for Class 1	Measuring Distance	Measured Energy	Limit for Class 1
Normal (without cover)	528nm	22.02mrad	47.4mm	209.4μW	5.1mW	100.0mm	264.6μJ	141.6mJ
Fault (without cover)	528nm	22.02mrad	47.4mm	915.4μW	5.1mW	100.0mm	1.6mJ	141.6mJ

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The apparatus was also complied with standard EN 60825-1: 1994 + A1 + A2 due to similarity between these standard.
3. The requirement of EN 62115 (Annex E) and the French regulation published on 11th Mar 2008 for LED product were included in this test report.
4. The test was conducted by operating the apparatus at rated voltage 6.0VDC.
5. 3 pcs. SMD yellow diffused White LEDs used in the Monitor unit of apparatus are identical to each other.
6. 1 pc. SMD white diffused White LED is used in the apparatus.

Date sample received : Mar 07, 2023  
 Testing period : Mar 07, 2023 to Mar 16, 2023



# TEST REPORT

Number : HKGH02979271

(2) Safety of Electric Toys

Test Standard : European Standard EN 62115 : 2005 + A12 : 2015 on Safety of electric toys.

Age group for testing : For Ages Over 3 Years

Power source: 6V, LR6 size x 4 pcs

Included battery: Yes (R6P size x 4 pcs)

Operated function : sound, light and LCD display

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Definitions	--
4	General requirement	--
5.13	Battery polarity reversed test	P
6	Criteria for reduced testing	--
7	Marking and instructions	P#1
8	Power input	NA
9	Heating and abnormal operation	P
10	Electric strength at operating temperature	P
11	Moisture resistance	P
12	Electric strength at room temperature	P
13	Mechanical strength	P
14	Construction	P
15	Protection of cords and wires	P
16	Components	P
17	Screws and connections	P
18	Clearances and creepage distances	P
19	Resistance to heat and fire	P
20	Toxicity and similar hazards	#2
	Radiation hazard - Annex E Toys incorporating laser / light-emitting diodes (LED)	#3
	Toys with an integrated field source - Annex ZC Toys generating Electromagnetic Fields (EMF)	NA
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
Annex D	Sequence of the tests of Clause 19	--
Annex ZB	Toys with protective electronic circuit influence from electromagnetic phenomena (EMP).	NA

Abbreviation : P = Pass

NA = Not Applicable



## TEST REPORT

Number : HKGH02979271

Remark(s):

- #1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.
- #2 = This report does not include test result of toxicity and similar hazard.
- #3 = Referred to test result of IEC 60825-1 class 1 for the lasers / light emitting diodes (LEDs).

Date sample received : Mar 07, 2023

Test Period : Mar 07, 2023 to Mar 29, 2023



Page 7 of 27



# TEST REPORT

Number : HKGH02979271

(3) Safety of Electric Toys

Test Standard : European Standard EN IEC 62115 : 2020 + A11 : 2020 on Safety of electric toys

Age group for testing : For Ages Over 3 Years

Power source: 6V, LR6 size x 4 pcs

Included battery: Yes (R6P size x 4 pcs)

Operated function : sound, light and LCD display

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Term and definitions	--
4	General requirement	--
5	General conditions for test	--
5.2	Preconditioning	A
5.7.2	Carried out with one or more batteries reversed	P
6	Criteria for reduced testing	NA
6.1	General	--
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7	Marking and instructions	P
7.1	General	P#1
7.2	Markings on electric toys	P#2
7.3	Instructions and markings on packaging	P
7.4	Instructions for electric toys that can be connected to class I equipment	NA
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8	Power input	NA
9	Heating and abnormal operation	P
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P
9.4	Normal operation with insulation short-circuited	P
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	NA





# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	NA
9.9	Fault condition in electronic circuits	P
9.10	Compliance criteria	P
10	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
	To be used with liquid and electric toys intended to filled from a tap	NA
	To be cleaned with liquid	NA
	To be used in water	NA
12	Mechanical strength	P
12.1	Enclosures	P
12.2	Attachment strength	NA
13	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.5	Plug and sockets	NA
13.6	Charging batteries	NA
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	P
13.10	Speed limitation of ride-on electric toys	NA
14	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	P
15	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	P
15.3	Transformers and power supplies	NA
15.4	Battery chargers	NA
15.5	Batteries	--
	Supplied primary batteries comply with the relevant parts of the IEC 60086 series	NC#3
	Supplied secondary batteries comply with IEC 62133	NA
16	Screws and connections	P



# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
16.1	Fixings	P
16.2	Connections	NA
17	Clearances and creepage distances	P
18	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P
19	Radiation and similar hazards	--
19.1	General	--
19.2	Optical radiation (In Annex E)	--
19.3	Other electromagnetic radiation (In Annex I)	--
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
C.1	Automatic controls	NA
C.2	Switches	NA
Annex D	Electric toys with protective electronic circuits	NA
D.1	General	NA
D.2	Dangerous malfunction	NA
D.2.1	General	NA
D.2.2	Electrostatic discharges	NA
D.2.3	Radiated fields	NA
D.2.4	Transient bursts	NA
D.2.5	Voltage surges	NA
D.2.6	Injected current	NA
D.2.7	Voltage dips and interruptions	NA
D.2.8	Mains signals	NA
Annex E	Safety of electric toys incorporating optical radiation sources	--
	19.E.2 - 19.E.4 Radiation Hazard	#4
	19.E.5 Modulated accessible emission warning	
Annex F	Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys	--
Annex G	Examples of calculations on LEDs	--
Annex H	Explanation of the principles used for the requirements of Annex E	--
Annex I	Electric toys generating electromagnetic fields (EMF)	NA
Annex J	Safety of remote controls for electric ride-on toys	NA
Annex K	Flow charts showing the application of Clause 9	--

Abbreviation : P = Pass      NA = Not Applicable      NC = Not Conducted      A = Applicable



## TEST REPORT

Number : HKGH02979271

## Remark(s):

- #1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.
- #2 = Clause 7.2.1 Below are additional information according to the requirement in Toy Safety Directive 2009/48/EC relating to marking of toys and do not constitute requirements of this European Standard:  
The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- #3 = Clause 15.5 Batteries  
Primary batteries supplied with electric toys complied with the relevant parts of the IEC 60086 series.  
Received test report: BAT180417N067-R1 and BAT180417N067-1-R1 from the applicant.  
Intertek HK did not perform actual test for the standard.
- #4 = Referred to test result in Annex E Clause 19.E.2-19.E.4.

Date sample received : Mar 07, 2023

Test Period : Mar 07, 2023 to Mar 29, 2023



Page 11 of 27



# TEST REPORT

Number : HKGH02979271

(4) Optical Radiation

Test Standard : European Standard EN IEC 62115: 2020 + A11: 2020 on Safety of electric toys, Annex E

Clause	Title/Description	Result
19.E.2	Light-emitting diodes (LEDs)	Pass
19.E.3	Lasers (IEC 60825-1: 2014)	Not Applicable
19.E.4	UV-emitting lamps	Not Applicable

Table of measuring data

For White LED used in monitor unit (yellow diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (with cover)	459nm (first peak)	20.2nm	200mm	0.73mW/sr	0.13W/sr
	563nm (second peak)				
Fault (with cover)	459nm (first peak)	20.2nm	200mm	0.76mW/sr	0.13W/sr
	563nm (second peak)				



# TEST REPORT

Number : HKGH02979271

For White LED used in flash light (white diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	452nm (first peak)	17.6nm	200mm	4.94mW/sr	0.13W/sr
	528nm (second peak)				
Fault (without cover)	452nm (first peak)	17.6nm	200mm	43.6mW/sr	0.13W/sr
	528nm (second peak)				

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The test was conducted by operating the apparatus at rated voltage 6.0VDC.
3. 3 pcs. SMD yellow diffused White LEDs used in the Monitor unit of apparatus are identical to each other.
4. 1 pc. SMD white diffused White LED is used in the apparatus.
5. For white LEDs comprising a blue emitter and a phosphor coating, a peak wavelength of 500 nm shall be used as an approximation of the actual spectrum.

Date sample received : Mar 07, 2023

Testing period : Mar 07, 2023 to Mar 16, 2023



# TEST REPORT

Number : HKGH02979271

(5) Safety of Electric Toys

Test Standard : Australian / New Zealand Standard AS/NZS 62115 : 2018 + A1 : 2021 on Safety of electric toys

Age group for testing : For Ages Over 3 Years

Power source: 6V, LR6 size x 4 pcs

Included battery: Yes (R6P size x 4 pcs)

Operated function : sound, light and LCD display

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Term and definitions	--
4	General requirement	--
5	General conditions for test	--
5.2	Preconditioning	A
5.7.2	Carried out with one or more batteries reversed	P
6	Criteria for reduced testing	NA
6.1	General	--
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7	Marking and instructions	P
7.1	General	P
7.2	Markings on electric toys	P
7.3	Instructions and markings on packaging	P
7.4	Instructions for electric toys that can be connected to class I equipment	P
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8	Power input	NA
9	Heating and abnormal operation	P
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P
9.4	Normal operation with insulation short-circuited	P
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	NA



# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	NA
9.9	Fault condition in electronic circuits	P
9.10	Compliance criteria	P
10	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
	To be used with liquid and electric toys intended to filled from a tap	NA
	To be cleaned with liquid	NA
	To be used in water	NA
12	Mechanical strength	P
12.1	Enclosures	P
12.2	Attachment strength	NA
13	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.5	Plug and sockets	P
13.6	Charging batteries	P
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	P
13.10	Speed limitation of ride-on electric toys	NA
14	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	P
15	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	P
15.3	Transformers and power supplies	NA
15.4	Battery chargers	NA
15.5	Batteries	--
	Supplied primary batteries comply with the relevant parts of the IEC 60086 series	#1
	Supplied secondary batteries comply with IEC 62133	NA
16	Screws and connections	P



# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
16.1	Fixings	P
16.2	Connections	NA
17	Clearances and creepage distances	P
18	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P
19	Radiation and similar hazards	--
19.1	General	--
19.2	Optical radiation (In Annex E)	--
19.3	Other electromagnetic radiation (In Annex I)	--
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
C.1	Automatic controls	NA
C.2	Switches	NA
Annex D	Electric toys with protective electronic circuits	NA
D.1	General	NA
D.2	Dangerous malfunction	NA
D.2.1	General	NA
D.2.2	Electrostatic discharges	NA
D.2.3	Radiated fields	NA
D.2.4	Transient bursts	NA
D.2.5	Voltage surges	NA
D.2.6	Injected current	NA
D.2.7	Voltage dips and interruptions	NA
D.2.8	Mains signals	NA
Annex E	Safety of electric toys incorporating optical radiation sources	--
	19.E.2 - 19.E.4 Radiation Hazard	#2
	19.E.5 Modulated accessible emission warning	NA
Annex F	Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys	--
Annex G	Examples of calculations on LEDs	--
Annex H	Explanation of the principles used for the requirements of Annex E	--
Annex I	Electric toys generating electromagnetic fields (EMF)	NA
Annex J	Safety of remote controls for electric ride-on toys	NA
Annex K	Flow charts showing the application of Clause 9	--

Abbreviation : P = Pass

NA = Not Applicable

A = Applicable





## TEST REPORT

Number : HKGH02979271

Remark(s):

#1 = Clause 15.5 Batteries Primary batteries supplied with electric toys complied with the relevant parts of the IEC 60086 series.  
Received test report: BAT180417N067-R1 and BAT180417N067-1-R1 from the applicant.  
Intertek HK did not perform actual test for the standard.

#2 = Referred to test result in Annex E Clause 19.E.2-19.E.4.

Date sample received : Mar 07, 2023

Test Period : Mar 07, 2023 to Mar 29, 2023



Page 17 of 27



# TEST REPORT

Number : HKGH02979271

(6) Optical Radiation

Test Standard : Australian/New Zealand Standard AS/NZS 62115:2018+A1:2021 Safety of electric toys, Annex E

Clause	Title/Description	Result
19.E.2	Light-emitting diodes (LEDs)	Pass
19.E.3	Lasers (IEC 60825-1: 2014)	Not Applicable
19.E.4	UV-emitting lamps	Not Applicable

Table of measuring data

For White LED used in monitor unit (yellow diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (with cover)	459nm (first peak)	20.2nm	200mm	0.73mW/sr	0.13W/sr
	563nm (second peak)				
Fault (with cover)	459nm (first peak)	20.2nm	200mm	0.76mW/sr	0.13W/sr
	563nm (second peak)				



# TEST REPORT

Number : HKGH02979271

For White LED used in flash light (white diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	452nm (first peak)	17.6nm	200mm	4.94mW/sr	0.13W/sr
	528nm (second peak)				
Fault (without cover)	452nm (first peak)	17.6nm	200mm	43.6mW/sr	0.13W/sr
	528nm (second peak)				

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The test was conducted by operating the apparatus at rated voltage 6.0VDC.
3. 3 pcs. SMD yellow diffused White LEDs used in the Monitor unit of apparatus are identical to each other.
4. 1 pc. SMD white diffused White LED is used in the apparatus.
5. For white LEDs comprising a blue emitter and a phosphor coating, a peak wavelength of 500 nm shall be used as an approximation of the actual spectrum.

Date sample received : Mar 07, 2023  
 Testing period :Mar 07, 2023 to Mar 16, 2023



# TEST REPORT

Number : HKGH02979271

(7) Safety of Electric Toys

Test Standard : International Standard IEC 62115:2017+Cor1:2019 on Safety of electric toys

Age group for testing : For Ages Over 3 Years

Power source: 6V, LR6 size x 4 pcs

Included battery: Yes (R6P size x 4 pcs)

Operated function : sound, light and LCD display

Clause	Requirement	Assessment
1	Scope	--
2	Normative reference	--
3	Term and definitions	--
4	General requirement	--
5	General conditions for test	--
5.2	Preconditioning	A
5.7.2	Carried out with one or more batteries reversed	P
6	Criteria for reduced testing	NA
6.1	General	--
6.2	Short-circuit resistance	NA
6.3	Low power electric toys	NA
6.4	Battery circuits	NA
7	Marking and instructions	P
7.1	General	P#1
7.2	Markings on electric toys	P
7.3	Instructions and markings on packaging	P
7.4	Instructions for electric toys that can be connected to class I equipment	P
7.5	Instructions for ride-on electric toys	NA
7.6	Temperature warnings	NA
8	Power input	NA
9	Heating and abnormal operation	P
9.1	General	P
9.2	Testing condition	--
9.3	Normal operation	P
9.4	Normal operation with insulation short-circuited	P
9.5	Abnormal operation with temperature controls made inoperable	NA
9.6	Electric toys with accessible moving parts locked	NA



# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
9.7	Additional transformers and power supplies	NA
9.8	Abnormal supply to electric toys via a USB connection	NA
9.9	Fault condition in electronic circuits	P
9.10	Compliance criteria	P
10	Electric strength	P
10.1	Electric strength at operating temperature	P
10.2	Electric strength under humid conditions	P
11	Electric toys used in water, electric toys used with liquid and electric toys cleaned with liquid	NA
	To be used with liquid and electric toys intended to filled from a tap	NA
	To be cleaned with liquid	NA
	To be used in water	NA
12	Mechanical strength	P
12.1	Enclosures	P
12.2	Attachment strength	NA
13	Construction	P
13.1	Nominal supply voltage	P
13.2	Transformers, power supplies and battery chargers	NA
13.3	Thermal cut-outs	NA
13.4	Batteries	P
13.5	Plug and sockets	P
13.6	Charging batteries	P
13.7	Series motors	NA
13.8	Working voltage	NA
13.9	Electric toys connecting to other equipment	P
13.10	Speed limitation of ride-on electric toys	NA
14	Protection of cords and wires	P
14.1	Edges and moving parts	P
14.2	Fixed parts	P
15	Components	P
15.1.1	General	P
15.1.2	Switches and automatic controls	NA
15.1.3	Other components	P
15.2	Prohibited components	P
15.3	Transformers and power supplies	NA
15.4	Battery chargers	NA
15.5	Batteries	--
	Supplied primary batteries comply with the relevant parts of the IEC 60086 series	#2
	Supplied secondary batteries comply with IEC 62133	NA
16	Screws and connections	P



# TEST REPORT

Number : HKGH02979271

Clause	Requirement	Assessment
16.1	Fixings	P
16.2	Connections	NA
17	Clearances and creepage distances	P
18	Resistance to heat and fire	P
18.1	Resistance to heat	NA
18.2	Resistance to fire	P
19	Radiation and similar hazards	--
19.1	General	--
19.2	Optical radiation (In Annex E)	--
19.3	Other electromagnetic radiation (In Annex I)	--
Annex A	Experimental sets	NA
Annex B	Needle flame test	NA
Annex C	Automatic controls and switches	NA
C.1	Automatic controls	NA
C.2	Switches	NA
Annex D	Electric toys with protective electronic circuits	NA
D.1	General	NA
D.2	Dangerous malfunction	NA
D.2.1	General	NA
D.2.2	Electrostatic discharges	NA
D.2.3	Radiated fields	NA
D.2.4	Transient bursts	NA
D.2.5	Voltage surges	NA
D.2.6	Injected current	NA
D.2.7	Voltage dips and interruptions	NA
D.2.8	Mains signals	NA
Annex E	Safety of electric toys incorporating optical radiation sources	--
	19.E.2 - 19.E.4 Radiation Hazard	#3
	19.E.5 Modulated accessible emission warning	
Annex F	Flowcharts showing the assessment of optical radiation safety of LEDs in electric toys	--
Annex G	Examples of calculations on LEDs	--
Annex H	Explanation of the principles used for the requirements of Annex E	--
Annex I	Electric toys generating electromagnetic fields (EMF)	NA
Annex J	Safety of remote controls for electric ride-on toys	NA
Annex K	Flow charts showing the application of Clause 9	--

Abbreviation : P = Pass

NA = Not Applicable

A = Applicable



## TEST REPORT

Number : HKGH02979271

## Remark(s):

- #1 = Only the English version of the marking and instructions were assessed. According to the standard, instruction sheets and other texts required by the standard shall be written in the official language of the country in which the product is to be sold.
- #2 = Clause 15.5 Batteries Primary batteries supplied with electric toys complied with the relevant parts of the IEC 60086 series.  
Received test report: BAT180417N067-R1 and BAT180417N067-1-R1 from the applicant.  
Intertek HK did not perform actual test for the standard.
- #3 = Referred to test result in Annex E Clause 19.E.2-19.E.4.

Date sample received : Mar 07, 2023

Test Period : Mar 07, 2023 to Mar 29, 2023



Page 23 of 27



# TEST REPORT

Number : HKGH02979271

(8) Optical Radiation

Test Standard : International Standard IEC 62115:2017+Cor1:2019 Safety of electric toys, Annex E

Clause	Title/Description	Result
19.E.2	Light-emitting diodes (LEDs)	Pass
19.E.3	Lasers (IEC 60825-1: 2014)	Not Applicable
19.E.4	UV-emitting lamps	Not Applicable

Table of measuring data

For White LED used in monitor unit (yellow diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (with cover)	459nm (first peak)	20.2nm	200mm	0.73mW/sr	0.13W/sr
	563nm (second peak)				
Fault (with cover)	459nm (first peak)	20.2nm	200mm	0.76mW/sr	0.13W/sr
	563nm (second peak)				





# TEST REPORT

Number : HKGH02979271

For White LED used in flash light (white diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	452nm (first peak)	17.6nm	200mm	4.94mW/sr	0.13W/sr
	528nm (second peak)				
Fault (without cover)	452nm (first peak)	17.6nm	200mm	43.6mW/sr	0.13W/sr
	528nm (second peak)				

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The test was conducted by operating the apparatus at rated voltage 6.0VDC.
3. 3 pcs. SMD yellow diffused White LEDs used in the Monitor unit of apparatus are identical to each other.
4. 1 pc. SMD white diffused White LED is used in the apparatus.
5. For white LEDs comprising a blue emitter and a phosphor coating, a peak wavelength of 500 nm shall be used as an approximation of the actual spectrum.

Date sample received : Mar 07, 2023

Testing period : Mar 07, 2023 to Mar 16, 2023



# TEST REPORT

Number : HKGH02979271

(9) Optical Radiation

Test Standard : International Standard IEC 62115:2017+Cor1:2019 Safety of electric toys, Annex E

Clause	Title/Description	Result
19.E.2	Light-emitting diodes (LEDs)	Pass
19.E.3	Lasers (IEC 60825-1: 2014)	Not Applicable
19.E.4	UV-emitting lamps	Not Applicable

Table of measuring data

For White LED used in monitor unit (yellow diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (with cover)	459nm (first peak)	20.2nm	200mm	0.73mW/sr	0.13W/sr
	563nm (second peak)				
Fault (with cover)	459nm (first peak)	20.2nm	200mm	0.76mW/sr	0.13W/sr
	563nm (second peak)				



# TEST REPORT

Number : HKGH02979271

For White LED used in flash light (white diffused)					
Condition	Measured Wavelength	Spectral Emission Bandwidth	Measuring Distance	Measured Radiant Intensity	Limit
Normal (without cover)	452nm (first peak)	17.6nm	200mm	4.94mW/sr	0.13W/sr
	528nm (second peak)				
Fault (without cover)	452nm (first peak)	17.6nm	200mm	43.6mW/sr	0.13W/sr
	528nm (second peak)				

Remark:

1. When determining the test conclusion, the Measurement Uncertainty of test has been considered. The decision rules are based on IEC Guide 115 with complying the relevant requirements of environment and equipment.
2. The test was conducted by operating the apparatus at rated voltage 6.0VDC.
3. 3 pcs. SMD yellow diffused White LEDs used in the Monitor unit of apparatus are identical to each other.
4. 1 pc. SMD white diffused White LED is used in the apparatus.
5. For white LEDs comprising a blue emitter and a phosphor coating, a peak wavelength of 500 nm shall be used as an approximation of the actual spectrum.

Date sample received : Mar 07, 2023

Testing period : Mar 07, 2023 to Mar 16, 2023

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End of report

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