

Test Report

Report No.: AGC07887190402ES01

PRODUCT DESIGNATION : 4 AXIS DRONE
BRAND NAME : N/A
MODEL NAME : Refer to page 3
CLIENT : HONGDA TOYS FACTORY(BO JIANG TECHNOLOGY)
DATE OF ISSUE : Apr. 24, 2019
STANDARD(S) : EN 62115:2005+A2:2011+A11:2012+A12:2015
REPORT VERSION : V1.0

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

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TEST REPORT

EN 62115

Electric Toys - Safety

Report reference No.....	AGC07887190402ES01		
Tested by (+ signature)	Winston Wang		
Reviewed by (+ signature)	Byron Wang		
Approved by (+ signature).....	Matte He (Authorized Officer)		
Date of issue	Apr. 24, 2019		
Contents.....	Total 10 pages		
Testing laboratory			
Name.....	Attestation of Global Compliance (Shenzhen) Co., Ltd.		
Address	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao 'an District, Shenzhen, Guangdong, China		
Test location.....	Same as above		
Applicant			
Name	HONGDA TOYS FACTORY(BO JIANG TECHNOLOGY)		
Address	GUANGFENG INDUSTRIAL ZONE,DENGFENG ROAD,CHENGHAI,SHANTOU,GUANGDONG,CHINA		
Test specification			
Standard.....	EN 62115:2005+A2:2011+A11:2012+A12:2015		
Test result	PASS		
Procedure deviation	N/A		
Non-standard test method.....	N/A		
Test Report Form/blank test report			
Test Report Form No	AGC62115A3		
TRF originator	AGC		
Master TTRF	2015-07		
Test item			
Product designation	4 AXIS DRONE		
Brand name	N/A		

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Item No.....	S11, F1, F2, F3, F4, F5, F6, S5, S5H, S5W, S5HW, S6, S6W, S7, S7W, S7G S8, S8W, S8G S9, S9H, S9W, S9MW, S9MG, S11W, S12, S12W, S13, S13W, S15, S15W, S17, S17W, S19, S19W, G01, G03, G05, G07, G09, G011, G013, G015, G017, G019
Rating(s)	For Control:3.0V(Installed 2 X 1.5V AAA batteries) For car: 3.7V(Installed 3.7V 220mAh lithium battery)
Labeled age grading	Not stated
Age group applied in testing.....	14+
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	Apr.15, 2019
Date(s) of performance of test.....	Apr. 16 -Apr. 23, 2019
Attachments	
Attachment A	Photos of product
Summary of testing	
The submitted sample complied with the requirement.	

Report Revise Record:				
Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Apr. 24, 2019	Valid	Initial Release

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EN 62115			
Clause	Requirement-Test	Result-Remark	Verdict
6	Criteria for reduced testing: The exemptions of 6.1 are applicable to all toys, whereas those of 6.2 are only applicable to battery toys		
6.1	Toys which comply with the tests of clause 9 with the insulation between parts of different polarity short-circuited		N
6.2	Battery toys in which cannot be bridged by a straight steel wire and the battery voltage does not exceed 2.5V measured 1s after a 1 Ω resistor has been connected between the supply terminals of the toy		N
7	Marking and instruction		
7.1	Toys or their packaging shall be marked with: -the name, trade mark or identification mark of the manufacturer or responsible vendor, -model or type reference		P
7.1.1	Battery toys with replaceable batteries shall be marked with: -the nominal battery voltage		N
	-symbol for d.c., if the toys has the battery box		N
7.1.2	Transformer toys shall be marked with the -rated voltage(V) -symbol for a.c. or d.c., -rated power input(if>25W or VA), -symbol for transformer for toys,		N
7.1.3	Dual supply toys shall be marked with the marking required for battery toys and transformer toys.		P
7.2	Detachable lamps shall be marked with: -the rated voltage and type number, or -the maximum power input, or -the maximum current.	No such lamps used	N
7.3	Symbol shall require comply with standard		P
7.4	Instructions		P
7.5	It shall be stated that the packaging must be retained since it contains important information.		P
7.6	Instruction and other texts shall be written in the official language of the country in which the toy is to be sold.		P
7.7	The markings shall be legible and durable.		P
8	Power input		N
9	Heating and abnormal operation.		
9.1	Toys shall not attain excessive temperatures in use.		P
9.2	Toys are placed in the most unfavorable position that can occur during play.		P

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EN 62115			
Clause	Requirement-Test	Result-Remark	Verdict
9.3	The temperature rises of the various parts are determined when toys are operated under normal operation.		P
9.4	The insulation between parts of different polarity which is accessible		N
9.5	Repeat clause 9.3, any control which limits the temperature short-circuited.		N
9.6	The test of 9.3 is repeated with accessible moving parts locked.		P
9.7	The additional power supply is connected for transformer toys and toys with battery boxes. Tested as in 9.3 and 9.4.		N
9.8	Compliance for electronic circuits		
9.8.1	Exemption of some circuits		P
9.8.2	Fault conditions		
	a)short-circuit of creepage distances and clearances between parts of different polarity		N
	b)open circuit at the terminals of any component		N
	c)short-circuit of capacitor		N
	d)short-circuit of any two terminals of an electronic component		N
	e)failure of triacs in the diode mode		N
	f)failure of an integrated circuit		N
9.9	During the tests, the temperature rises of accessible parts are monitored continuously.		P
10	Electric strength at operating temperature (250V, 50Hz, 1Min)		P
11	Moisture resistance		
11.1	Battery toys intended to be used in water and toys likely to be cleaned with liquid shall have and enclosure providing the appropriate protection		N
11.2	Toys shall be resistance humidity (48h,T.H.93%, T=20°C~30°C)	48h, T.H.93%, T=30°C	P
12	Electric strength at room temperature (250V,50Hz,1Min)		P
13	Mechanical strength		
	The toy is rigidly supported and six blows are applied to every point of the enclosure that is likely to be weak with an impact energy of 0.7 J		P
14	Construction		

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Clause	Requirement-Test	Result-Remark	Verdict
14.1	Toys shall be constructed to be supplied by a transformer for toys or by a battery having a nominal voltage not exceeding 24V		P
	The working voltage between any two parts of the toys shall not exceed 24V when the toy is supplied at rated voltage		P
14.2	The transformer of transformer toys shall not be an integral part of the toys		P
	Controls for the toy are not to be incorporated in the transformer		P
14.3	Toys intended to be used in water shall not be transformer toys	Not such toys	N
14.4	Toys intended for children under 3 years old shall not be transformer toys		N
14.5	The resetting of non-self-resetting thermal cutouts necessary for compliance with this standard		N
14.6	Button cells and type R1 batteries shall not be accessible without the aid of a tool unless the cover of their compartment can only be opened after at least two independent movements have been simultaneously applied		N
14.7	The batteries of toys intended for children under 3 years old shall not be accessible without the aid of a tool		N
14.8	Rechargeable batteries in toys shall not leak, the toy being in any position. The electrolyte shall not become accessible, even if a tool has to be used to remove covers or similar parts		N
14.9	Toys shall not be supplied by batteries connected in parallel are unless a mixture of used and new batteries, or the reverse insertion of batteries, does not impair compliance with this standard.		N
14.10	Plugs and socket-outlets		N
14.11	Non-detachable parts preventing contact with moving parts or hot surfaces or preventing access to locations where explosion or fire could be initiated, shall be fixed in a reliable manner and shall withstand the mechanical stress occurring during play.		N
14.12	It shall not be possible to charge rechargeable batteries when they are in the toy.		N
14.13	Series motors having a power input exceeding 20W shall not be used.	No such motors used	P
14.14	Toys shall not contain asbestos	No asbestos used	P
14.15	Internal parts of a toy having a voltage exceeding 24 V		N

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Clause	Requirement-Test	Result-Remark	Verdict
14.16	Electrolyte leakage test		N
14.Z1	Computer toys shall be safe when connected to a computer, console, monitor screen or other audio - video equipment, even in case of a fault in the equipment it is connected to. Computer toys shall therefore comply with one of the following conditions		N
	a) the computer toy shall include an instruction to advise that the toy shall only be connected to equipment of Class II		N
	b) conductive parts of computer toys electrically connected to a computer, console, monitor screen or other audio-video equipment shall not be accessible in the toy and the insulation between such parts and accessible parts shall have a thickness of at least 1 mm and an adequate electric strength.		N
15	Protection of cords and wires		
15.1	Wireways shall be smooth and free from sharp edges		P
15.2	Bare wiring and heating elements shall be rigid and fixed so that, during play, creepage distances and clearances cannot be reduced below the values specified in clause 18		N
16	Components		
16.1	Components with the safety requirements		P
16.1.1	Switches and automatic controls		N
16.1.2	Marking of components and operating conditions		P
16.2	Toys shall not be fitted with: -thermal cur-outs which can be reset by a soldering operation		N
	-mercury switches		N
16.3	Transformers for toys shall comply with IEC61558-2-7		N
16.4	Battery chargers compliance		N
17	Screws and connections		
17.1	Fixings, the failure of which may impair compliance with this standard and electrical connections shall withstand the mechanical stresses occurring during play.		P
17.2	Electrical connections carrying a current exceeding 0.5A.		N
18	Clearances and creepage distances		
	Clearances and creepage distances of functional insulation shall not be less than 0.5mm		P
19	Resistance to heat and fire		

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Clause	Requirement-Test	Result-Remark	Verdict
19.1	Toys having a working voltage exceeding 12V and a current exceeding 3A		N
19.2	Parts of non-metallic material		P
19.2.1	The glow-wire test	550°C	P
19.2.2	Parts of insulation material supporting connections carrying a current exceeding 3A and a working voltage exceeding 12V, and parts of insulating material with a distance of 3mm of such connection, are subjected to the glow-wire test of IEC60695-2-11 at a temperature of 650°C		N
20	Radiation, toxicity and similar hazards Toys shall not present a toxic or similar hazard		P

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Attachment A Photos of Product

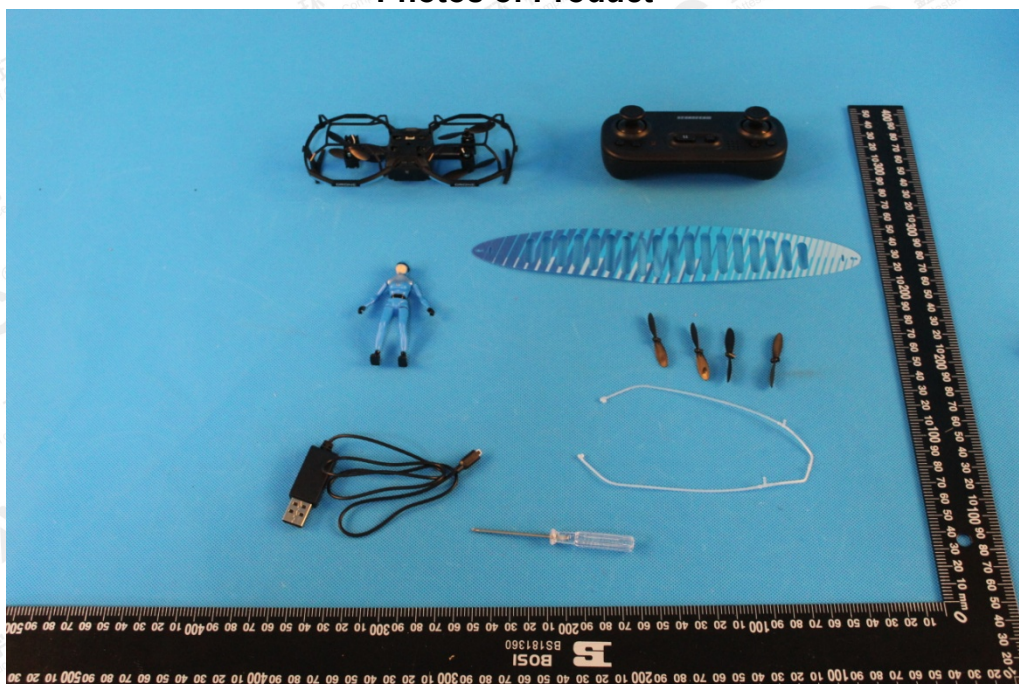


Fig.1. – Overview

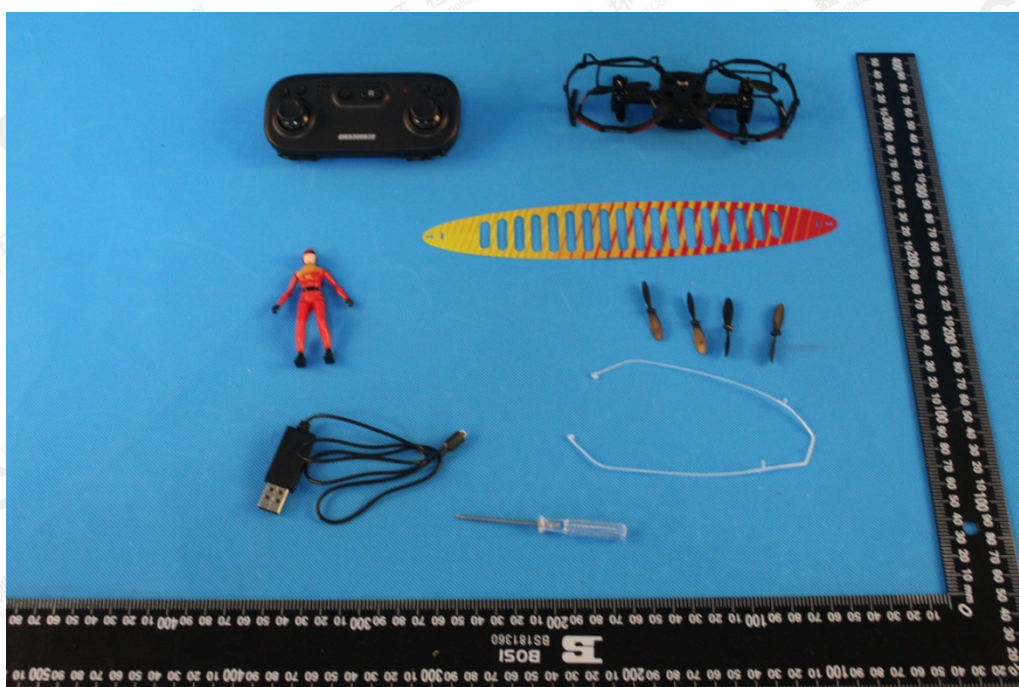


Fig.2. – Overview

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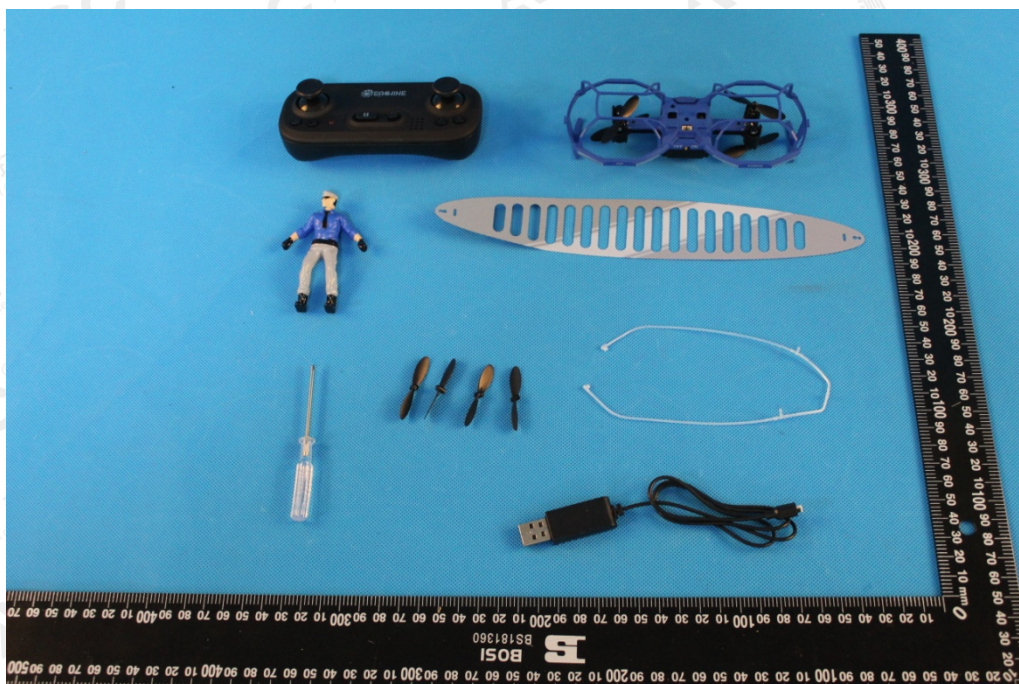


Fig.3. – Overview



Fig.4. – Overview

-----End of Report-----

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