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FCC Test Report (DoC)

Application No.: HKEM1703000608IT

Applicant:EMBEST TECHNOLOGY CO.,LTD.Manufacturer:EMBEST TECHNOLOGY CO.,LTD.Factory:EMBEST TECHNOLOGY CO.,LTD.

Product Information:

Product Name: Flick HAT Model No.: V1.1

Requirement: 47 CFR PART 15,SUBPART B:2016

Date of Receipt: March 16, 2017

Date of Test: March 17, 2017 to March 31, 2017

Date of Issue: March 31, 2017

Test Result : PASS*

* In the configuration tested, the EUT complied with the standards specified above

Authorized Signature:

CHEN Jian-feng, Jeffrey



The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS IECC Ltd. or testing done by SGS IECC Ltd. in connection with, distribution or use of the product described in this report must be approved by SGS IECC Ltd. in writing.

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2 Test Summary

Test	Test Requirement	Test Method	Class / Severity	Result
Conducted Emission	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2009	Class B	PASS
Radiated Emission (30MHz to 1GHz)	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2014	Class B	PASS
Radiated Emission above 1 GHz	FCC PART 15, SUBPART B: 2016	ANSI C63.4:2014	Class B	N/A ¹⁾

Remark:

1) Please refer to section 6.3 of this report for explanation



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4 General Information

4.1 Client Information

Applicant/Manufacturer: EMBEST TECHNOLOGY CO.,LTD.

Address of Applicant Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park, /Manufacturer: Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China

Factory: EMBEST TECHNOLOGY CO.,LTD.

Address of Factory: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave. No.1183, Nanshan District, Shenzhen, Guangdong, China

4.2 General Description of EUT

EUT Name: Flick HAT Model No.: V1.1

EUT Description: Flick HAT

4.3 Details of EUT

Power Supply: Supplied by Associated Module

Operating frequency: Less than 108Mhz

4.4 Description of Support Units

Supporting equipment:

Description	Manufacturer	Model No.	Serial No.	Data Cable	Power Cable
Notebook computer	ASUS	A556U	FBN0CV92138348	N/A	2.2m(DC)
Mouse	Lenovo	MO28UOL	4401282 081	USB	N/A
Ethernet router	TP-LINK	TL- WR1043ND	10275200539	LAN	1.8m (DC)
Associated Module	Supplied by client	N/A	N/A	N/A	N/A
Note: For the cable detail please refer to below table.					

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Cables:

#	Туре	Length, m	Shield	Metallic hood	Ferrite
1	Associated Cable 1	0.20	No	No	No
2	Associated Cable 2	0.80	No	No	No

Software:

Description	Manufacturer	Software name	Version no.
EMC test software	Provided by Client	Aurea_Software_Pa ckage	V2.0.0

4.5 Standards Applicable for Testing

CFR 47, FCC Part 15, 2016 ANSI C63.4:2014

4.6 Test Location

All tests were performed at: -

SGS IECC Limited (Member of the SGS Group (SGS SA))

Units 303-305, 3/F., 31 Lok Yip Road, On Lok Tsuen, Fanling, N.T., Hong Kong

Tel: +852 2305 2570 Fax: +852 2756 4480.

No tests were sub-contracted.

4.7 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - CAB Registration No.: 446297

Measurement facility located at Fanling (Hong Kong), accredited as a Conformity Assessment Body (CAB) and was designated by FCC to perform compliance testing on equipment subject to Declaration Of Conformity (DOC) and Certification under Part 15 and 18 of the Commission's Rules.

4.8 Deviation from Standards

None

4.9 Abnormalities from Standard Conditions

None.

4.10 Declaration of Family Grouping

None.

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4.11 Abbreviations

N/A: Not Applicable

EUT: Equipment Under Test

4.12 Measurement Uncertainty (95% confidence levels, k=2)

No.	ltem	Measurement Uncertainty
1	Radiated disturbance 30MHz - 1GHz	5.5
2	Conducted Emissions	3.1



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5 Equipments Used during Test

Conducted Emission					
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date	
Test Receiver	Rohde & Schwarz	ESCS 30 /100388	2016/09/28	2017/09/27	
Impulse Limiter	Rohde & Schwarz	ESH-3-Z2 / 375881052	2017/01/23	2018/01/22	
Artificial Mains Network (LISN)	Schwarzbeck	NSLK 8127 / 8127312	2016/04/20	2017/04/19	



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Radiated Emission	Radiated Emission					
Equipment	Manufacturer	Model / Serial No.	Cal. Date	Cal. Due Date		
3m Semi-Anechoic Chamber (pre-test)						
3m / 10m Open Aera Test Site			2015/03/11	2018/03/10		
Test Receiver 9KHz-2750MHz	Rohde & Schwarz	ESCS 30 /100388	2016/09/28	2017/09/27		
Spectrum Analyzer 9kHz - 30GHz	Rohde & Schwarz	FSP30/101474	2016/05/31	2017/05/30		
Loop Antenna 9KHz-30MHz	Rohde & Schwarz	HFH2-Z2	2016/01/23	2019/01/22		
Antenna (30-300 MHz)	Schwarzbeck	BBA9106, VHA9103	2014/11/15	2017/11/14		
Log-periodic Antennas 300MHz-1000MHz	Schwarzbeck	UHALP9107	2014/11/15	2017/11/14		
Antenna, 30MHz – 1000MHz	Schaffner	CBL6111C / 2791	2016/10/27	2018/10/26		
Horn Antenna 1 - 18GHz	Schwarzbeck	BBHA9120D/9120D-1070	2016/01/23	2018/01/22		
Preamplifier 1 - 18GHz	Schwarzbeck	BBV9718/9718-223	2017/01/23	2018/01/22		
Coaxial Cable		E167	2016/11/17	2017/11/16		
Antenna Mast System	Schwarzbeck	AM9104 / -				
Turntable with Controller	Drehtisch	DT312 / -				



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6 Test Results

6.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4

Test Voltage & frequency: Supplied by Associated Module

Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak and Average if maximised peak within 20dB of Quasi-Peak

limit

Limit:

Frequency range MHz	Class B Limits dB (μV)			
2	Quasi-peak	Average		
0.15 to 0.50	66 to 56	56 to 46		
0.50 to 5	56	46		
5 to 30	60	50		

Note:

- 1) The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.
- 2) The lower limit is applicable at the transition frequency.

6.1.1 EUT Operation

Operating Environment:

Temperature: 25°C Humidity: 47% Atmospheric Pressure: 1020mbar

EUT Operation: Pre-test with Peak detector with the following mode(s):

1: PC connection mode.

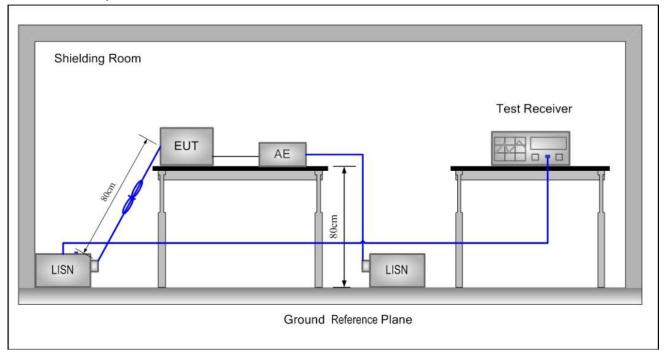
Final test with Quasi-Peak detector with the following mode(s):

1: PC connection mode.



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6.1.2 Test Setup and Procedure



- 1. The mains terminal conducted emission test was conducted in a shielded room.
- 2. The EUT was connected via the host computer to AC power source through a LISN (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. For Load terminal voltage measurement, a voltage probe was used on the load terminals. Measurement at control terminals were carried out by means of an impedance stabilization network (ISN). The ISN was bounded to ground.
- 3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. The EUT kept a distance of at least 0.8m from any other earthed conducting surface. The Artificial Mains Network was situated at a distance of 0.8m from the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m.

6.1.3 Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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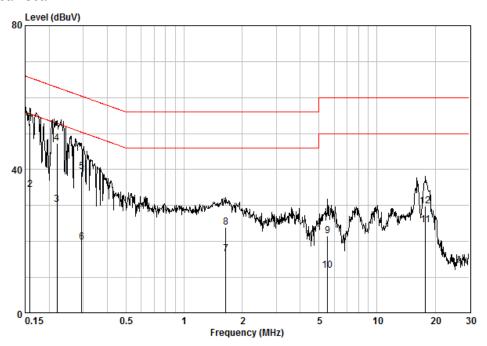


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The following Quasi-Peak and Average measurements were performed on PC connection mode.

Live line:

Peak Scan:



Quasi-peak and Average measurement:

Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.15900	0.10	0.12	52.59	52.81	65.52	-12.71	QP
0.15900	0.10	0.12	34.25	34.47	55.52	-21.04	AVERAGE
0.21967	0.10	0.12	30.16	30.37	52.83	-22.46	AVERAGE
0.21967	0.10	0.12	47.02	47.24	62.83	-15.59	QP
0.29398	0.10	0.11	39.17	39.38	60.41	-21.03	QP
0.29398	0.10	0.11	19.64	19.85	50.41	-30.56	AVERAGE
1.645	0.10	0.25	16.20	16.56	46.00	-29.44	AVERAGE
1.645	0.10	0.25	23.69	24.04	56.00	-31.96	QP
5.535	0.10	0.44	21.09	21.63	60.00	-38.37	QP
5.535	0.10	0.44	11.40	11.93	50.00	-38.07	AVERAGE
17.849	0.20	0.65	23.79	24.64	50.00	-25.36	AVERAGE
17.849	0.20	0.65	29.04	29.89	60.00	-30.11	QP

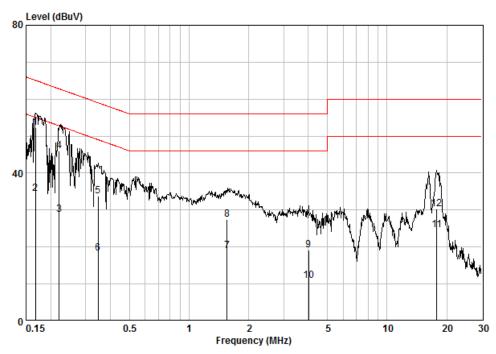
Level = Read Level + LISN Factor + Cable Loss.



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Neutral line:

Peak Scan:



Quasi-peak and Average measurement:

Freq	Cable Loss	LISN Factor	Read Level		Limit Line	Over Limit	Remark
MHz	dB	dB	dBuV	dBuV	dBuV	dB	
0.16765	0.10	0.13	52.16	52.38	65.08	-12.69	QP
0.16765	0.10	0.13	34.26	34.49	55.08	-20.59	AVERAGE
0.22100	0.10	0.15	28.45	28.70	52.78	-24.08	AVERAGE
0.22100	0.10	0.15	45.67	45.93	62.78	-16.86	QP
0.34646	0.10	0.19	33.41	33.70	59.05	-25.35	QP
0.34646	0.10	0.19	18.05	18.33	49.05	-30.71	AVERAGE
1.557	0.10	0.28	18.65	19.03	46.00	-26.97	AVERAGE
1.557	0.10	0.28	26.98	27.37	56.00	-28.63	QP
4.006	0.10	0.41	18.70	19.21	56.00	-36.79	QP
4.006	0.10	0.41	10.31	10.82	46.00	-35.18	AVERAGE
17.852	0.20	0.79	23.55	24.54	50.00	-25.46	AVERAGE
17.852	0.20	0.79	29.30	30.29	60.00	-29.71	QP

Level = Read Level + LISN Factor + Cable Loss.



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6.2 Radiated Emissions, 30MHz to 1GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4:2014

Test Voltage & frequency: Supplied by Associated Module

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 20dB of limit

Class: Class B

Frequency range	Quasi-peak limits		
MHz	dB (μV/m)		
30 to 88	40		
88 to 216	43.5		
216 to 960	46		
Above 960	54		
Note: At transitional frequencies the lower limit applies.			

6.2.1 EUT Operation

Operating Environment:

Temperature: 25°C Humidity: 47% Atmospheric Pressure: 1020mbar

EUT Operation: Pre-test with Peak detector with the following mode(s):

1: PC connection mode.

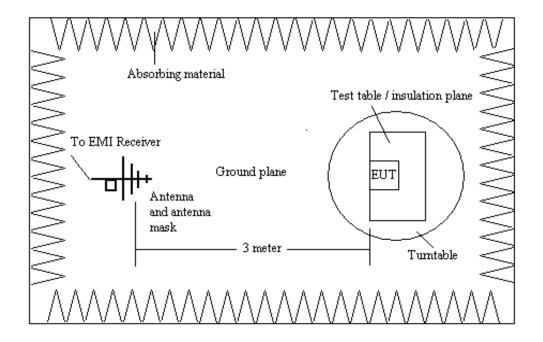
Final test with Quasi-Peak detector with the following mode(s):

1: PC connection mode.



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6.2.2 Test Setup and Procedure



- 1. The pre-test of the radiated emissions test was conducted in a semi-anechoic chamber and the final measurement was conducted in the open area test site.
- 2. Bilog antenna was used for the frequency range from 30MHz to 1GHz
- 3. The EUT was connected to the host PC which was connected to AC power source through a mains power outlet which was bonded to the ground reference plane; The mains cables shall drape to the ground reference plane. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.
- 4. Before final measurements of radiated emissions, a pre-scan was performed in the spectrum mode with the peak detector to find out the maximum emissions spectrum plots of the EUT with located frequencies.
- 5. The actual frequencies of maximum emission were confirmed in the final radiated emissions measurement. At each frequency, the EUT was rotated 360°, and the antenna was raised and lowered from 1 to 4 meters in order to determine the maximum disturbance. Measurements were performed for both horizontal and vertical antenna polarization.

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6.2.3 Measurement Data

An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. The EUT was measured by Bilog antenna with 2 orthogonal polarities and frequencies of peak emissions from the EUT were detected within 20dB of the class B limit line. Final measurement was conducted in the open area test site with data as follows:

Test results on mode:

Frequency (MHz)	Antenna Polarization	Trans. (dB/m)	Receiver QP Reading (dBµV)	Emission Level (dBµV/m)	Limit (dBμV/m)	Over Limit (dB)
60.280	V	9.99	13.57	23.56	29.5	-5.94
61.132	Н	9.91	11.64	21.55	29.5	-7.95
88.964	V	9.55	9.23	18.78	33	-14.22
119.018	V	11.37	8.27	19.64	33	-13.36
120.277	Н	11.43	4.95	16.38	33	-16.62
151.597	V	11.25	8.77	20.02	33	-12.98
277.094	Н	13.14	6.34	19.48	35.6	-16.12
396.242	V	16.43	5.2	21.63	35.6	-13.97
451.135	Н	18.11	7.02	25.13	35.6	-10.47
771.449	Н	21.51	6.59	28.10	35.6	-7.50
848.056	V	22.32	6.60	28.92	35.6	-6.68
922.516	Н	22.97	5.73	28.70	35.6	-6.90

Note:

- 1) All readings are Quasi-Peak values.
- 2) Transducer = Antenna Factor + Cable Loss.



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6.3 Radiated Emissions above 1 GHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4:2014
Test Date: Not Applicable

Remark:

There is no need for Radiated Emissions (above 1G) test to be performed on this product in accordance with FCC Part 15 because the highest internal source is less than 108 MHz.

For further details, please refer to Subject B section 15.33 (b) (1) of FCC Part 15 which states:

The spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement Range (MHz)
Below 1.705	30
1.705 to 108	1000
108 to 500	2000
500 to 1000	5000
Above 1000	5th harmonic of the highest frequency or 40 GHz, whichever is lower



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7 Photographs

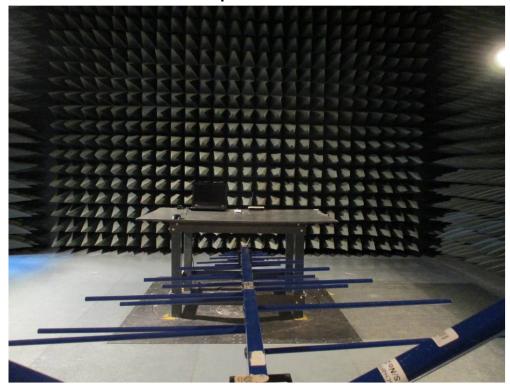
7.1 Conducted Emission Test Setup





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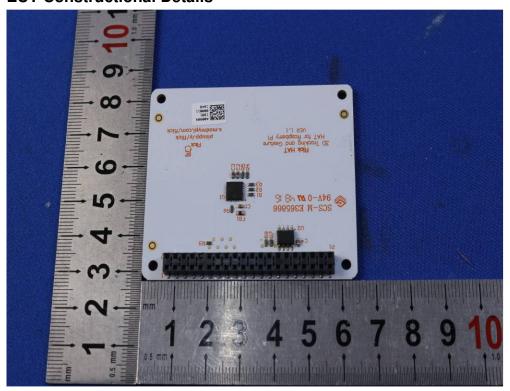
7.2 Radiatd Emission Test Setup

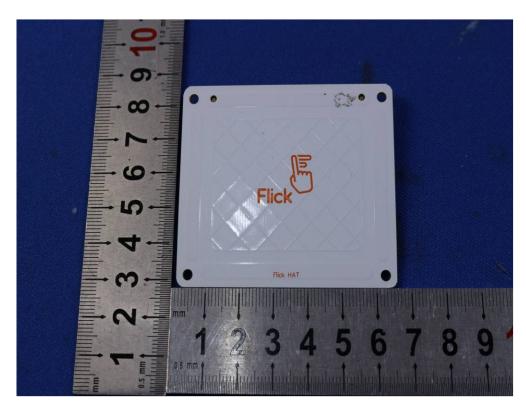




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7.3 EUT Constructional Details





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