

# TEST REPORT

<b>Applicant:</b>	Listan Asia
<b>Manufacturer:</b>	5F, No. 148, Sec. 2, Minquan E. Rd., Zhongshan Dist., Taipei 10483. Taiwan.
<b>FCC ID:</b>	--
<b>Product Name:</b>	DARK BASE PRO 900
<b>Model No.:</b>	BGX1X
<b>Trade mark:</b>	be quiet!
<b>Standards:</b>	KDB 680106 D01v02.
<b>Date of Receipt:</b>	2016-06-21
<b>Date of Test:</b>	2016-07-03 to 2016-08-04
<b>Date of Issue:</b>	2016-08-05
<b>Test Result :</b>	Pass*
<b>Prepared By:</b>	Dongguan Yaxu (AiT) Technology Limited
	Add. : No.22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan, Guangdong, China

\* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further detail.

This device described above has been tested by Dongguan Yaxu (AiT) Technology Limited, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

\*This test report must not be used by the client to claim product endorsement by any agency of the U.S. government.

Reviewed by: Seal-Chen

Approved by: Jimmy

## 1 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00	--	2016-08-05	--	Original

## 2 Content

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### 3 Test Facility

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

##### **.CNAS- Registration No: L6177**

Dongguan Yaxu (AiT) technology Limited is accredited to ISO/IEC 17025:2005 general Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the competence of testing and calibration laboratories) on Apr. 18, 2013

##### **.FCC- Registration No: 248337**

The 3m Semi-Anechoic Chamber, 3m/10m Open Area Test Site and Shielding Room of Dongguan Yaxu (AiT) Technology Limited have been registered by Federal Communications Commission (FCC) on Aug.29, 2014.

##### **.Industry Canada(IC)-Registration No: IC6819A**

The 3m Semi-Anechoic Chamber and 3m of Dongguan Yaxu (AiT) Technology Limited have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing on Oct. 01, 2014.

##### **.VCCI- Registration No: 2705**

The 3m/10m Open Area Test Site, Shielding Room and 3m Chamber of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on Nov. 21, 2012. The Telecommunication Ports Conducted Disturbance Measurement of Dongguan Yaxu (AiT) Technology Limited have been registered by Voluntary Control Council for Interference on May. 13, 2013.

## 4 General Information

### 4.1 Client Information

Applicant: Listan Asia  
Address of Applicant: 5F, No. 148, Sec. 2, Minquan E. Rd., Zhongshan Dist., Taipei 10483.  
Taiwan.  
Manufacturer: Casing Macron Technology Co., Ltd.  
Address of Manufacturer: No3, Hung Yeh N 17th Rd., Hong Yeh Industrial Zone, Tangxia,  
Dongguan City.

### 4.2 General information description

Equipment under test	DARK BASE PRO 900
Model name	BGX1X
Frequency Range	110 KHz to 205 KHz
Antenna type	Internal type(Coil antenna)
Power source	5V DC

### 4.3 Test frequency

Frequency (KHz)	Frequency Range 110 KHz to 205 KHz
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### 4.4 Description of Support Units

The EUT has been tested with simulate receiver, resistor and adapter provided by applicant.

### 4.5 Deviation from Standards

None.

### 4.6 Abnormalities from Standard Conditions

None.

### 4.7 Test Location

All tests were performed at:

All tests were performed at:

Dongguan Yaxu (AiT) Technology Limited.  
No. 22, Jinqianling Third Street, Jitigang, Huangjiang, Dongguan, Guangdong, China.  
Tel.: +86.769.82020499 Fax.: +86.769.82020495

No tests were sub-contracted.

## 5 Equipment Used during Test

No	Test Equipment	Manufacturer	Model No	Serial No	Cal. Date	Cal. Due Date
1	EMI Measuring Receiver	R&S	ESR	101660	2016.06.29	2017.06.28
2	Low Noise Pre Amplifier	Tsj	MLA-10K01-B01-27	1205323	2016.06.29	2017.06.28
3	TRILOG Super Broadband test Antenna	SCHWARZBECK	VULB9160	3206	2016.06.29	2017.06.28
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2016.06.29	2017.06.28
5	EMI Test Receiver	R&S	ESCI	100124	2016.06.29	2017.06.28
6	LISN	Kyoritsu	KNW-242	8-837-4	2016.06.29	2017.06.28
7	LISN	Kyoritsu	KNW-407	8-1789-3	2016.06.29	2017.06.28
8	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2016.06.29	2017.06.28
9	Radiated Cable 1# (30MHz-1GHz)	FUJIKURA	5D-2W	01	2015.12.25	2016.12.24
10	Radiated Cable 2# (1GHz -25GHz)	FUJIKURA	10D2W	02	2015.12.25	2016.12.24
11	Conducted Cable 1#(9KHz-30MHz)	FUJIKURA	1D-2W	01	2015.12.25	2016.12.24
12	Passive Loop	ETS	6512	00165355	2016.06.29	2017.06.28
13	DMM	Fluke	73	70681569	2016.06.29	2017.06.28
14	DMM	Fluke	73	70671122	2016.06.29	2017.06.28
15	Electric Field Probe	WANDEL&GOLTERMANN	EMR-20	M-0063	2016.06.29	2017.06.28

## 6 Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(b), 1.1310

### 6.1 Limits for Maximum Permissible Exposure (MPE)

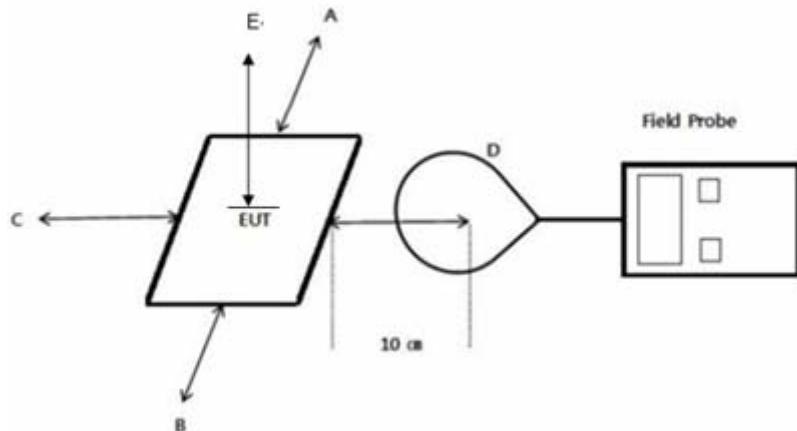
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
(A) Limits for Occupational / Control Exposures				
0.3-3.0	614	1.63	*(100)	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	30

“\*” means Plane-wave equivalent power density

### 6.2 Test mode

Mode	Description
Charging mode With load	Using Max load
	Using Mid load
	Using Min load
Standby mode	No load

### 6.3 Test Setup



1. The test was performed on 360 degree turn table in anechoic chamber.
2. The probe was placed at distance 10 cm which is between the edge of the charger and the geometric centre of the probe.
3. The highest emission level was recorded and compared with limit as soon as measurement of each point; A, B, C, D, E, F were completed.
4. The EUT was measured according to the KDB 680106 D01v02.

## 6.4 Test results

### 6.4.1 E-Field Strength at 10 cm from each edges the EUT (Pad type)

Test Mode	Frequency Range(KHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	Position F (V/m)	Limits (V/m)
Charging mode With load (Max)	110 KHz to 205 KHz	0.57	0.86	0.25	0.86	0.53	0.75	614
Charging mode With load (Mid)	110 KHz to 205 KHz	0.65	0.86	0.85	0.64	0.93	0.37	614
Charging mode With load (Min)	110 KHz to 205 KHz	0.64	0.53	0.99	0.34	0.38	0.83	614
Standby mode (Not charging)	110 KHz to 205 KHz	0.63	0.53	0.68	0.64	0.87	0.63	614

### 6.4.2 H-Field Strength at 10 cm from each edges the EUT (Pad type)

Test Mode	Frequency Range(KHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	Position F (A/m)	Limits (A/m)
Charging mode With load (Max)	110 KHz to 205 KHz	0.34	0.38	0.68	0.59	0.87	0.49	1.63
Charging mode With load (Mid)	110 KHz to 205 KHz	0.86	0.73	0.37	0.63	0.36	0.82	1.63
Charging mode With load (Min)	110 KHz to 205 KHz	0.56	0.88	0.76	0.37	0.66	0.88	1.63
Standby mode (Not charging)	110 KHz to 205 KHz	0.62	0.32	0.82	0.55	0.73	0.51	1.63

## 7 Photographs

### 7.1 . Test setup photo

Position A



Position B



**Position C**



**Position D**



**Position E**



**Position F**



**--End of Report--**