

MPE TEST REPORT

The product

Equipment Under Test : Body Camera
Model Number : B100
Product Series : B100 Plus, B100 Pro, B120, B160, B180
Report Number : HA235115-MP
Issue Date : 07-Jul-2023
Test Result : Compliance

is produced by

PAPAGO INC.

4F., No.200, Gangqian Rd., Neihu District, Taipei City 114, Taiwan(R.O.C)



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BSMI Registration No. : SL2-IN-E-0023, SL2-A1-E-0023, **FCC Designation No. :** TW1136, TW1163

SL2-IS-E-0023, SL2-R1-E-0023,

TAF Accreditation No. : 1163

SL2-R2-E-0023, SL2-L1-E-0023

IC assigned Code : 11226A-2

VCCI Registration No. : R-12156, C-12329, T-10219, G-10696

ISED CAB identifier: TW1163

Caution :

The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the production product(s) has met the criteria for certification. The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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Test Result Certification

Applicant	: PAPAGO INC.
Address of Applicant	: 4F., No.200, Gangqian Rd., Neihu District, Taipei City 114, Taiwan(R.O.C)
Manufacturer	: PAPAGO INC.
Address of Manufacturer	: 4F., No.200, Gangqian Rd., Neihu District, Taipei City 114, Taiwan(R.O.C)
Trade Name	: PAPAGO!
Equipment Under Test	: Body Camera
Model Number	: B100
Product Series	: B100 Plus, B100 Pro, B120, B160, B180
FCC ID	: 2AA58-B100
Filing Type	: Certification
Sample Received Date	: 21-Jun-2023
Test Standard	:

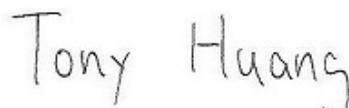
<input checked="" type="checkbox"/> 47 CFR § 2.1091; 47 CFR § 1.1310; ANSI/ IEEE Std.C95.1-1992
<input checked="" type="checkbox"/> KDB 447498

Deviations from standard test methods & any other specifications : NONE

Remark:

1. This report details the results of the test carried out on one sample.
2. This report applies to the above sample only and shall not be reproduced in part without written approval of HongAn Technology Co., Ltd..

Tested by:



Date: 07-Jul-2023

Tony Huang/ ENG. Dept. Staff

Approved by:



Date: 07-Jul-2023

Eason Hsieh/ Authorized Report Reviewer

1 General Description

1.1 Description of EUT

Equipment Under Test	:	Body Camera									
Model Number of EUT	:	B100									
Product Series	:	B100 Plus, B100 Pro, B120, B160, B180									
Power Supply	:	DC5V (mini USB port) DC3.8V (Lithium Battery)									
Adapter		Model: QL010-0501000UU Input: 100-240V~50/60Hz 0.45A Output: 5.0V == 1.0A									
Data Cable		Mini USB Cable <input checked="" type="checkbox"/> Shielded <input type="checkbox"/> Non-Shielded <input checked="" type="checkbox"/> Detachable, 1m <input type="checkbox"/> Un-Detachable <input checked="" type="checkbox"/> with Ferrite Core <input type="checkbox"/> without Ferrite Core									
Frequency Range	:	802.11 b/ g/ n HT(20) : 2412~2462 MHz									
Number of Channels	:	11 Channels									
Carrier Frequency of Each Channel	:	Ch.	Fre. (MHz)	Ch.	Fre. (MHz)	Ch.	Fre. (MHz)	Ch.	Fre. (MHz)	Ch.	Fre. (MHz)
		01	2412	02	2417	03	2422	04	2427	05	2432
		06	2437	07	2442	08	2447	09	2452	10	2457
		11	2462								
Antenna Specification	:	FPC Antenna									
Modulation Technique	:	802.11b : DSSS (Type: CCK, DQPSK, DBPSK)									
		802.11g : OFDM (Type: 64QAM, 16QAM, QPSK, BPSK)									
		802.11n : OFDM (Type: 64QAM, 16QAM, QPSK, BPSK)									
Transmit Data Rate	:	802.11b : 11/5.5/2/1 Mbps									
		802.11g : 54/48/36/24/18/12/9/6 Mbps									
		802.11n : MSC 0/1/2/3/4/5/6/7									
Specification	:	Dimensions : 70mm (L) X 47 mm (W) X 31.5 mm (H) Function : The EUT is a body camera. Product Variance : The manufacturer declares that the series product are identical to the main test sample. For marketing reason, there are different series numbers. ※For more detail specification, please refer to the User Manual.									

2 Human Exposure Assessment

2.1 Limit

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR § 1.1310 titled "Radiofrequency radiation exposure limits". Generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. "This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product.

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator

R: distance to the center of radiation of the antenna.

2.2 Test Result

Pass

Please refer to the next page for detailed information.



Maximum Output Power:

Temperature : 25°C
Test Date : 05-Jul-2023

Humidity : 58%
Tested by : Tony Huang

Test Mode : 802.11 b

Test Channel	Frequency (MHz)	Test Result		Worst Case
		(dBm)	(W)	
01	2412	10.92	0.012359	<input checked="" type="checkbox"/>
06	2437	9.64	0.009204	<input type="checkbox"/>
11	2462	9.05	0.008035	<input type="checkbox"/>

Test Mode : 802.11 g

Test Channel	Frequency (MHz)	Test Result		Worst Case
		(dBm)	(W)	
01	2412	3.88	0.002443	<input checked="" type="checkbox"/>
06	2437	2.79	0.001901	<input type="checkbox"/>
11	2462	1.82	0.001520	<input type="checkbox"/>

Test Mode : 802.11 n HT(20)

Test Channel	Frequency (MHz)	Test Result		Worst Case
		(dBm)	(W)	
01	2412	3.86	0.002432	<input checked="" type="checkbox"/>
06	2437	2.64	0.001836	<input type="checkbox"/>
11	2462	1.55	0.001428	<input type="checkbox"/>



MPE Value:

Test mode : 802.11 b

Test Channel	Frequency (MHz)	Output power (dBm)	Antenna Gain (dBi)	Power (mW)	MPE (mW/cm ²)	Limit (mW/cm ²)
01	2412	10.92	-0.22	11.74897555	0.00233739	1.0
06	2437	9.64	-0.22	8.74983775	0.00174073	1.0
11	2462	9.05	-0.22	7.63835784	0.00151960	1.0

$$\text{MPE} = (P^*G)/4\pi(R)^2$$

Note: the calculated distance is 20 cm, i.e. R = 20cm.

Test mode : 802.11 g

Test Channel	Frequency (MHz)	Output power (dBm)	Antenna Gain (dBi)	Power (mW)	MPE (mW/cm ²)	Limit (mW/cm ²)
01	2412	3.88	-0.22	2.32273680	0.00046209	1.0
06	2437	2.79	-0.22	1.80717413	0.00035953	1.0
11	2462	1.82	-0.22	1.44543977	0.00028756	1.0

$$\text{MPE} = (P^*G)/4\pi(R)^2$$

Note: the calculated distance is 20 cm, i.e. R = 20cm.

Test mode : 802.11 n HT(20)

Test Channel	Frequency (MHz)	Output power (dBm)	Antenna Gain (dBi)	Power (mW)	MPE (mW/cm ²)	Limit (mW/cm ²)
01	2412	3.86	-0.22	2.31206479	0.00045997	1.0
06	2437	2.64	-0.22	1.74582215	0.00034732	1.0
11	2462	1.55	-0.22	1.35831345	0.00027023	1.0

$$\text{MPE} = (P^*G)/4\pi(R)^2$$

Note: the calculated distance is 20 cm, i.e. R = 20cm.