TEST REPORT

Product Name	:	Dash Cam
Brand Mark	:	DDPAI
Model No.	:	mini Pro
FCC ID	:	2AJFX-MINIPRO
Report Number	:	BLA-EMC-202302-A4403
Date of Sample Receipt	:	2023/2/23
Date of Test	:	2023/2/24 to 2023/3/9
Date of Issue	:	2023/3/10
Test Standard	:	KDB447498D04 General RF Exposure Guidance v01
Test Result	:	Pass

Prepared for:

Heath Co LLC

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Prepared by:

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Compiled by: Review by:

Approved by: Date: 2023/3/10

REPORT REVISE RECORD

Version No.	Date	Description
00	2023/3/10	Original

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1 GENERAL INFORMATION

Applicant	DDPAI Technology Co., Ltd
Address	Floor 12,Yihua financ e building,Nanshan software industry park,Xuefu Rd,Nanshan district,Shenzhen
Manufacturer	DDPAI Technology Co., Ltd
Address	Floor 12,Yihua financ e building,Nanshan software industry park,Xuefu Rd,Nanshan district,Shenzhen
Factory	DDPAI Technology Co., Ltd
Address	Building A, Futai Industrial Park, Qingfeng south Road, Keyuancheng, Tangxia Town, Dongguan city, Guangdong province, China
Product Name	Dash Cam
Test Model No.	mini Pro

2 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V00
Software Version	V00

Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20):11
Antenna Type:	PCB Antenna
Antenna gain:	Antenna:2dBi
Remark:The Antenna Gain is supplied by the customer.BlueAsia is not responsible for this data	

3 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

4 RF EXPOSURE COMPLIANCE REQUIREMENT

4.1 RF EXPOSURE COMPLIANCE REQUIREMENT

Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\,\text{cm})^{x} & d \le 20\,\text{cm} \\ ERP_{20\,\text{cm}} & 20\,\text{cm} < d \le 40\,\text{cm} \end{cases} \quad \text{(B. 2)}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50
300	39	65	88	110	129	148	166	184	201	217
450	22	44	67	89	112	135	158	180	203	226
835	9	25	44	66	90	116	145	175	207	240
1900	3	12	26	44	66	92	122	157	195	236
2450	3	10	22	38	59	83	111	143	179	219
3600	2	8	18	32	49	71	96	125	158	195
5800	1	6	14	25	40	58	80	106	136	169

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\,\text{cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\,\text{GHz} \le f < 1.5\,\text{GHz} \\ 3060 & 1.5\,\text{GHz} \le f \le 6\,\text{GHz} \end{cases} \quad \text{(B. 1)}$$

EIRP = pt x gt = (EXd)2/30
where:
pt = transmitter output power in watts,
gt = numeric gain of the transmitting antenna (unitless),
E = electric field strength in V/m, --- 10((dBuV/m)/20)/106
d = measurement distance in meters (m)---3m
Sopt = (EXd)2/30 x gt

Ant gain = 2 dBi
Max Output power =20.481dBm @ 2437MHz
ERP = 20.481dBm+2dBi-2.15=20.331dBm
So
ERP is worse case
10^2.0331=107.92 mW < 3060 mW
Comply with RF exposure exemption limit.

----END OF REPORT----