

FCC Radiofrequency Radiation Exposure Estimation Report

In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
KDB 447498 D01

Product Name: Controller

Trademark: Pimax

Model Name: H1-R

Serial Model: N/A

Report No.: S22102101916004

FCC ID: 2ARKN-H1-R

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name : Pimax Technology (Shanghai) Co., Ltd.
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Manufacturer's Name : Pimax Technology (Shanghai) Co., Ltd.
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Factory's Name : Pimax Technology (Rizhao) Co., Ltd.
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Product description

Product name : Controller
Trademark : Pimax
Model and/or type reference : H1-R
Serial Model..... : N/A
FCC 47 CFR Part 1(1.1310)
FCC 47 CFR Part 2(2.1093)
Standards : ANSI/IEEE C95.1-1992
KDB 447498 D01

This device described above has been tested by Shenzhen NTEK. Testing has shown that this device is capable of compliance with FCC radiofrequency radiation exposure specified in FCC 47 CFR Part 2(2.1093) and ANSI/IEEE C95.1-1992. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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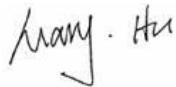
Date of Test

Date (s) of performance of tests..... : Feb. 20, 2023 ~ Mar. 28, 2023

Date of Issue : Apr. 04, 2023

Test Result : **Pass**

Prepared By
(Test Engineer)

: 

(Mary Hu)

Approved By
(Lab Manager)

: 

(Alex Li)

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Apr. 04, 2023	Mary Hu

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1 General Information

1.1 RF Exposure Requirements

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

1.2 EUT Description

Device Information			
Product Name	Controller		
Trade Name	Pimax		
Model Name	H1-R		
Serial Model	N/A		
FCC ID	2ARKN-H1-R		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	FPC Antenna		
Antenna Gain	2dBi		
Device Operating Configurations			
Supporting Mode(s)	BT		
Test Modulation	BT(GFSK)		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	BT	2402-2480	

1.3 Test specification(s)

FCC 47 CFR Part 1(1.1310)
FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
KDB 447498 D01 General RF Exposure Guidance

1.4 Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

2 RF Exposure Evaluation

2.1 Operation in BT

Mode	P _{max} (dBm)	P _{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	2.50	1.78	5	2.480	0.56	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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