

RF Exposure

Applicant : AOSU LIFE PTE. LTD.
Address : 9 NORTH BUONA VISTA DRIVE, #02-01, THE METROPOLIS, SINGAPORE 138588
Product Name : aosu Video Doorbell R2 Ultra
Brand Mark : AOSU, DEKCO, Saato, Zoohi
Model : V8S21
Series model : V8S, DV8S, DV8S21, V8S22, DV8S22, V8S23, DV8S23, V8S24, DV8S24, V8S25, DV8S25, V8S1AX11, DV8S1AX11, V8P1AX11, DV8P1AX11
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FCC ID : 2BSW3-V8S21
Date of Receipt : Jan. 12, 2026
Date of Test : Jan. 12, 2026 to Feb. 06, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1091
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

charlie

Review by:

Xavier

Approved by:

13 Feb. Zheng

Issued Date:

Feb. 06, 2026



BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyuan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China



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Revise Record

Version No.	Date	Description
01	Feb. 06, 2026	Original

1 General information

1.1 General information

Applicant	AOSU LIFE PTE. LTD.
Address	9 NORTH BUONA VISTA DRIVE, #02-01, THE METROPOLIS, SINGAPORE 138588
Manufacturer	AOSU LIFE PTE. LTD.
Address	9 NORTH BUONA VISTA DRIVE, #02-01, THE METROPOLIS, SINGAPORE 138588
Factory	N/A
Address	N/A

1.2 General description of EUT

Product name	aosu Video Doorbell R2 Ultra
Model no.	V8S21
Series model	V8S, DV8S, DV8S21, V8S22, DV8S22, V8S23, DV8S23, V8S24, DV8S24, V8S25, DV8S25, V8S1AX11, DV8S1AX11, V8P1AX11, DV8P1AX11
Differences of Series model	The software and hardware of the product are consistent between the reported model and the main certification model, and the difference is only used to distinguish different sales channels
Power supply or adapter information	battery poweredDC3.6V / Battery Type-C interface DC 5V Low Voltage ACpower :8-24V~,40A maximum,50/60Hz
Hardware version	V2.1
Software version	2.2.8
Engineer sample no.	BLA-EMC-202601-A49
<i>Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.</i>	

For 2.4GWIFI

Operation Frequency	802.11b/g/n(HT20)/ax (HE20): 2412MHz to 2462MHz 802.11n/ (HT40): 2422MHz to 2452MHz
Modulation Type	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ax: OFDMA(1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK)
Resource unit (802.11ax)	Only support full RU
Nominal Bandwidth	20MHz&40MHz
Channel Spacing	5MHz
Number of Channels	802.11b/g/n(HT20)/ax (HE20): 11 802.11n(HT40):7
Antenna Type	internal antenna
Antenna Gain	5.25dBi(Provided by customer)
Function	☒ SISO ☐ 2x2 MIMO ☐ TPC

2 Laboratory and accreditations

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

FCC	Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
	Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
	A2LA Cert. No.:	5071.01
	FCC Designation No.:	CN1252
	Test Firm Registration Number:	923526
Telephone:		+86-755-28682673
FAX:		+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 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.

3.2 Limits

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

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

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

3.3 Result

Calculated Result and Limit (WORSE CASE IS AS BELOW)

Mode	Frequency (MHz)	Max Output power(dBm)	Max Output power(mW)	Ant gain (dBi)	Evaluation ERP(dBm)	Evaluation ERP(mW)	Distance (cm)	Limit of Pth(mW)	Result
2.4G WIFI:N20	2437	-0.702	0.85	5.25	2.398	1.74	20	3060	Pass

$ERP = \text{Max Output power} + \text{Ant gain} - 2.15$

Comply with RF exposure exemption limit.

----END OF REPORT----

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