

FCC RF EXPOSURE REPORT

For

Villa Door Station

MODEL NUMBER: OEU-201B-HMK-W

ADDITIONAL MODEL NUMBER:

OEU-201B-HMK-W -xxxxxxxx-yyy-yyyyy-zzz,

OEU-201S-HMK-W -xxxxxxxx-yyy-yyyyy-zzz

("x", "y", "z" can be 0-9, A-Z, a-z or blank, - may be blank)

PROJECT NUMBER: 4790904051

REPORT NUMBER: 4790904051-2

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Prepared for

ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD.

Prepared by

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Revision History

Rev.	Issue Date	Revisions	Revised By
V0	07/26/2023	Initial Issue	

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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD.
Address: No. 369, Xietong Road, Xixing Sub-district, Binjiang District,
Hangzhou City, 310051, Zhejiang Province, China

Manufacturer Information

Company Name: ZHEJIANG UNIVIEW TECHNOLOGIES CO., LTD.
Address: No. 369, Xietong Road, Xixing Sub-district, Binjiang District,
Hangzhou City, 310051, Zhejiang Province, China

Factory Information-1

Company Name: Zhejiang Uniview System Technology Co., Ltd.
Address: No.1277 Qingfeng South Road(South), Tongxiang Economic
Development Zone, Tongxiang City, Jiaxing City, 314500,
Zhejiang, China

Factory Information-2

Company Name: TDG Technology Co., Ltd.
Address: No. 1, Yatai Road, Nanhu district, Jiaxing, Zhejiang 314050, China

Factory Information-3

Company Name: TOP-TEK TECHNOLOGY(VIETNAM) CO., LTD.
Address: No.5, Street 7, Vsip II, Hoa Phu Ward, Tdm Town, Binh Duong
Province, Vietnam- 820000

EUT Description

Product Name: Villa Door Station
Model Name: OEU-201B-HMK-W
Additional No.: OEU-201B-HMK-W -xxxxxxxx-yyy-yyyyy-zzz,
OEU-201S-HMK-W -xxxxxxxx-yyy-yyyyy-zzz
("x", "y", "z" can be 0-9, A-Z, a-z or blank, - may be blank)
Model Difference: Their electrical circuit design, layout, components used and
internal wiring are identical, only the color and model name is
different. The model OEU-201B-HMK-W was selected as the
representative model for compliance test.
Sample Number: 6215301
Data of Receipt Sample: Jun. 27, 2023
Test Date: Jun. 27, 2023 ~ Jul. 23, 2023

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC Guidelines for Human Exposure IEEE C95.1	Complies

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06 and FCC Guidelines for Human Exposure IEEE C95.1.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 4829.01) UL-CCIC COMPANY LIMITED has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1247) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules. IC (IC Designation No.: 25056; CAB No.: CN0073) UL-CCIC COMPANY LIMITED has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules.
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Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, China.

Note 2: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. These measurements below 30MHz had been correlated to measurements performed on an OFS.

Note 3: The test anechoic chamber in UL-CCIC COMPANY LIMITED had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Uncertainty
Output Power to Antenna	1.3 dB
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.	

5. REQUIREMENT

LIMIT

Limits for General Population/Uncontrolled Exposure

Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/150	30
1500-100,000	--	--	1.0	30
Note 1: f = frequency in MHz, * means Plane-wave equivalent power density				
Note 2: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.				
Note 3: The limit value 1.0mW/cm ² is available for this EUT.				

MPE CALCULATION METHOD

$$S = PG/(4\pi R^2)$$

where: S = power density (in appropriate units, e.g. mW/ cm²)

P = power input to the antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

CALCULATED RESULTS

WIFI (Worst case)								
Mode	Frequency	Output Power to Antenna		Antenna Gain		Power Density	Limit	Verdict
	(MHz)	(dBm)	(mW)	(dBi)	(Numeric)	(mW/cm ²)	(mW/cm ²)	
11B	2437	15.0	31.62	3.07	2.03	0.013	1	Complies

Note:

1. The output power to antenna and antenna gain are from operation description.
2. The minimum separation distance of the device is greater than 20 cm.
3. All the modes and channels had been tested, but only the worst data was recorded in the report.
4. The calculated result for the sample received is <Pass> according to < 47 CFR FCC Part 2 Subpart J, section 2.1091> when <Accuracy Method> decision rule is applied.

END OF REPORT