

FCC RF EXPOSURE REPORT

For

IP Villa Outdoor Station

MODEL NUMBER: VTO2211G-WP

ADDITIONAL MODEL NUMBER: DHI-VTO2211G-WP

PROJECT NUMBER: 4789495399

REPORT NUMBER: 4789495399-2

FCC ID: VTO2211G-WP

ISSUE DATE: Jul. 29, 2020

Prepared for

Zhejiang Dahua Vision Technology Co., Ltd.

Prepared by

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Revision History

| Rev. | Issue Date | Revisions | Revised By | |
|------|------------|---------------|------------|--|
| V0 | 07/29/2020 | Initial Issue | | |

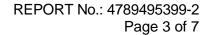




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1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd. Address: No.1199, Bin'an road, Binjiang District, Hangzhou,

P.R.China.

Manufacturer Information

Company Name: Zhejiang Dahua Vision Technology Co., Ltd. Address: No.1199, Bin'an road, Binjiang District, Hangzhou,

P.R.China.

EUT Description

Product Name IP Villa Outdoor Station

Model Name VTO2211G-WP Additional No.: DHI-VTO2211G-WP

Sample Number 3084887
Data of Receipt Sample May. 27, 2020

Date Tested May. 27, 2020 ~ Jun. 26, 2020

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) 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. |
|------------------------------|---|
|------------------------------|---|

Note 1: All tests measurement facilities use to collect the measurement data are located at No. 2, Chengwan Road, Suzhou Industrial Park, Suzhou 215122, People's Republic of 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.



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4. 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/f2)* | 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/cm² 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)



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CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

Ant 1+2:

| WIFI (Worst case) | | | | | | | |
|-------------------|--------------------|-------|------------------|-----------|---------------|----------|----------------|
| Mode | Max. Tune-up Power | | Directional Gain | | Power Density | Limit | Test Result |
| 11n20 MIMO | (dBm) | (mW) | (dBi) | (Numeric) | (mW/cm2) | (mW/cm2) | |
| | 17.0 | 50.12 | 7.31 | 5.38 | 0.05 | 1 | Complies |

Note: the calculated distance is 20cm.

END OF REPORT