FCC RF EXPOSURE REPORT

For

Wire-Free Base Station

MODEL NUMBER: WA1001-300

ADDITIONAL NUMBER: DH-WA1001-300, DHI-WA1001-300, WA1001-300-Imou, WA1001-300-imou

FCC ID: SVNWA1001-300

REPORT NUMBER: 4788743859-2

ISSUE DATE: Apr. 30, 2019

Prepared for

ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.

Prepared by

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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	Wire-Free Base Station
Model Name	WA1001-300
Additional Number	DH-WA1001-300, DHI-WA1001-300, WA1001-300-Imou, WA1001-300-imou
Sample ID	1902633
Sample Status	Good
Sample Received date	Nov. 5, 2018
Date Tested	Nov. 15, 2018 ~ Feb. 20, 2019

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC 47CFR§2.1091 KDB-447498 D01 V06	Complies

Tested By:

Tom Tang

Tom Tang
Engineer Project Associate

Check By:

Chris Zhong

Chris Zhong
Senior Project Engineer

Approved By:

Scholl Zhang

Scholl Zhang
Laboratory Leader

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with KDB 447498 D01 General RF Exposure Guidance v06.

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

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 OATS.

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. 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/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

Radio Frequency Radiation Exposure Evaluation

WIFI2.4G (Worst case)							
Operating Mode	Tune up tolerance	Max. Tune up Power		Antenna Gain		Power density	Limit
	(dBm)	(dBm)	mW	(dBi)	(num)	(mW/ cm^2)	
802.11b - ANT 1+2	15.0±1	16	39.8	5.6	3.63	0.0287	1

Note:

1. the calculated distance is 20cm.
2. For this product, it has two antennas, antenna1 and antenna2, it can transmit at the same time during work at 802.11B & 802.11G & 802.11N20 & 802.11N40 modes, but only the 802.11N20 & 802.11N40 modes support the MIMO technical.

END OF REPORT