

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

UL-CCIC COMPANY LIMITED

No. 2, Chengwan Road, Suzhou Industrial Park, People's Republic of China

Tel: +86 769 22038881 Fax: +86 769 33244054 Website: www.ul.com



TABLE OF CONTENTS

1.	ATTESTATION OF TEST RESULTS	3
2.	TEST METHODOLOGY	4
3.	FACILITIES AND ACCREDITATION	4
1	REQUIREMENT	E



REPORT NO: 4788743958-2

Page 3 of 6

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: Check By:

Tom Tang Chris Zhong

Tom Tang Chris Zhong

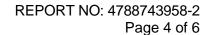
Engineer Project Associate Senior Project Engineer

Approved By:

Scholl Zhang

Laboratory Leader

Scholl Zhang





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

REPORT NO: 4788743958-2

Page 5 of 6

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)

REPORT NO: 4788743958-2

Page 6 of 6

CALCULATED RESULTS

Radio Frequency Radiation Exposure Evaluation

WIFI2.4G (Worst case)									
Operating	Tune up tolerance	Max. Tune up Power		Antenna Gain		Power density	Limit		
Mode	(dBm)	(dBm)	mW	(dBi)	(num)	(mW/ cm²)	LIIIII		
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