

#### FCC RF EXPOSURE REPORT

For

Kasa Smart Doorbell

**MODEL NUMBER: KD110** 

FCC ID: 2AXJ4KD110

REPORT NUMBER: 4789567348-3

ISSUE DATE: September 24, 2020

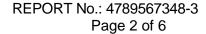
### Prepared for

TP-Link Corporation Limited
Room 901, 9/F., New East Ocean Centre, 9 Science Museum Road, Tsim Sha
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#### Prepared by

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**TEST RESULTS** 

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### 1. ATTESTATION OF TEST RESULTS

**Applicant Information** 

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

**Manufacturer Information** 

Company Name: TP-Link Corporation Limited

Address: Room 901, 9/F., New East Ocean Centre, 9 Science Museum

Road, Tsim Sha Tsui, Kowloon, Hong Kong

**EUT Information** 

EUT Name: Kasa Smart Doorbell

Model: KD110
Brand Name: tp-link
Sample Status: Normal
Sample ID: 3274254

Sample Received Date: August 24, 2020

Date of Tested: August 25, 2020~September 11, 2020

**APPLICABLE STANDARDS** 

STANDARD

FCC 47CFR§2.1091 PASS

KDB-447498 D01 V06

Prepared By	<i>/</i> :	Checked By:
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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.

## 3. FACILITIES AND ACCREDITATION

3. FACILITIES AND ACCREDITATION					
	A2LA (Certificate No.: 4102.01)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been assessed and proved to be in compliance with A2LA.				
	FCC (FCC Designation No.: CN1187)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	Has been recognized to perform compliance testing on equipment subject				
	to the Commission's Delcaration of Conformity (DoC) and Certification				
	rules				
Accreditation	ISED(Company No.: 21320)				
Certificate	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
Continoato	has been registered and fully described in a report filed with				
	Industry Canada. The Company Number is 21320.				
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)				
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.				
	has been assessed and proved to be in compliance with VCCI, the				
	Membership No. is 3793.				
	Facility Name:				
	Chamber D, the VCCI registration No. is G-20019 and R-20004				
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011				

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch 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.

Note 3: For below 30MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30MHz had been correlated to measurements performed on an OFS.



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## 4. REQUIREMENT

#### <u>LIMIT</u>

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/cm²)	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<sup>2</sup> 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

WIFI 2.4G (Worst case)								
Operating	Max. Power	Max. Antenna Gain		Power density	Limit			
Mode	(dBm)	(dBi)	(num)	(mW/ cm <sup>2</sup> )	Liiiii			
2.4G wifi	26.67	2.69	1.858	0.17168	1			

#### Note:

- 1. The calculated distance is 20cm.
- 2. The Power comes from operation description.
- 3. Therefor the maximum calculations of above situations are less than the "1" limit.

## **END OF REPORT**