Risk Assessment and Risk Reduction for DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

Applicant: Lumi United Technology Co., Ltd Manufacturer: Lumi United Technology Co., Ltd

Product name: Smart Video Doorbell G4,

Chime Repeater

Brand name: Aqara

Model name: SVD-C01, SVD-C03, SVD-C02, SVD-C04

Software version:

1.0.4 0010(Smart Video Doorbell G4)

1.0.4- 0010(Chime Repeater)

Hardware version:

T0(Smart Video Doorbell G4)

X1(Chime Repeater)

We Lumi United Technology Co., Ltd have performed the risk assessment procedure and found that our product in the case of a transmitter, when the transmitter is properly installed, maintained and used for its intended purpose it generates radio waves emissions that do not create harmful interference, while unwanted radio waves emissions generated by the transmitter (e.g. in adjacent channels) with a potential negative impact on the goals of radio spectrum policy should be limited to such a level that, according to the state of the art, harmful interference is avoided; and, in the case of a receiver, it has a level of performance that allows it to operate as intended and protects it against the risk of harmful interference, in particular from shared or adjacent channels, and, in so doing, supports improvements in the efficient use of shared or adjacent channels and also evaluated the health and safety risk and other aspects of public interest protection.

We have tried to avoid the risk by designing inherent benign, pre-testing against relevant requirement and adding more precaution steps to enhance the quality, also will adding warning statement in the relevant documents to avoid non-proper installation which will cause non- intended purpose or usage.

We also seek to the professional authority to test and evaluate our products to get the official certificate, which will prove that our product meet the revenant essential requirements, helping the user to understand that our product is low risk.

Risk Analysis

OperatingTemperature -18°C ~ Meet the requirement of User	
1 50 °C manual	
Operating Humidity Meet the requirement of User	
2 0% ~ 95% manual	
Operating Voltage Meet the requirement of	
Environmental 3 12V-24V AC 0.2A 50/60Hz manufacturer's design	
Condition 8V-24V DC 0.5A, Six AA 1.5V LR6	
batteries(Smart Video Doorbell	
G4); 5V/ÌA USB-A to USB-C	
supply line(Chime Repeater)	
4 Intended Used Office or Home used	
1 Maximum transmit power Meet the requirements of Test Sta	andards
ETSI EN300 328 V2.2.2	
2 Power Spectral Density Meet the requirements of Test Sta	andards
ETSI EN300 328V2.2.2	
3 Duty Cycle, Tx-sequence, Tx-gap Meet the requirements of Test Sta	andards
Duty Cycle, Tx-sequence, Tx-gap ETSI EN300 328V2.2.2	
Meet the requirements of Test Sta	andards
4 Medium Uitilisation (MU) factor ETSI EN300 328V2.2.2	
RF (Zigbee) 5 Occupied Channel Bandwidth Meet the requirements of Test Sta	andards
RF (Zigbee) 5 Occupied Channel Bandwidth ETSI EN300 328V2.2.2	
6 Transmitter unwanted emissions in Meet the requirements of Test Sta	andards
the out-of-band domain ETSI EN300 328V2.2.2	
7 Transmitter unwanted emissions in Meet the requirements of Test Sta	andards
the spurious domain ETSI EN300 328V2.2.2	
8 Receiver spurious emissions Meet the requirements of Test Sta	andards
E15I EN300 328V2.2.2	
9 ReceiverBlocking Meet the requirements of Test Sta	andards
E1SI EN300 328V2.2.2	
Meet the requirements of Test Sta	andards
ETSI EN 301 489-1 V2.2.3	
1 EMI Performance ETSI EN 301 489-17 V3.2.4	
EN 55032:2015+A11:2020	
EN 55035:2017+A11:2020	
EMC Meet the requirements of Test Sta	andards
ETSI EN 301 489-1 V2.2.3	
2 EMS Performance ETSI EN 301 489-17 V3.2.4	
EN 55032:2015+A11:2020	
EN 55035:2017+A11:2020	
3 Under Vehicular Environment Meet the requirements of Test Sta	andards
Inherent Regulating Network Prot	ected
1 Electric Shock Hazards Meet Test Standard	
EN 62368-1:2014+A11:2017	
Inherent Regulating Network Prot	ected
2 Mechanical Hazards Meet Test Standard	
Safety EN 62368-1:2014+A11:2017	
Inherent Regulating Network Prot	ected
Meet Test Standard	
3 Fire Hazards EN 62368-1:2014+A11:2017EN 6	32233:2008 +

RF Exposure	1	RE Healin	Fulfilled the requirements of Test Standards EN 50665:2017

After evaluation, our product is found to satisfy all the technical regulations applicable to the product within the scope of Council Directives2014/53/EU , according to 3.1a, 3.1b and 3.2 of the Directive. Some Harmonized Standard have not published, based on the Non-Harmonized Standard and evaluated by NB, when the harmonized standards published, we will renew them.

List of the Followed Test Standards for Assessment of RED Requirement

EN 62368-1:2014+A11:2017 ETSI EN 300328 V2.2.2 EN 50665:2017 ETSI EN 301 489-17 V3.2.4 (2020-09) ETSI EN 301 489-1 V2.2.3 (2019-11) EN 55032:2015+A11:2020 EN 55035:2017+A11:2020

Yours sincerely,

Signed by or for the Applicant: Heidi. he.

Name (in print): Heidi He
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Title: Certification Engineer

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