

RF EXPOSURE REPORT

Reference No..... :	WTH26X06162084W003
FCC ID	2A729-DNWC
Applicant	Dhyan Networks and Technologies, Inc
Address	160 Stanford Ave Fremont, CA, USA
Manufacturer	GUANGZHOU SHUWANG TECHNOLOGY CO., LTD.
Address	Room 101, Building 9, Letian Yungu, Nansha District, Guangzhou City
Product Name	Smart Light Controller
Model No..... :	DNWC
Standards	FCC Rule Part 1.1307 KDB 447498 D04
Date of Receipt sample :	2026-06-10
Date of Test..... :	2026-06-10 to 2026-07-15
Date of Issue	2026-07-17
Report Form No. :	WTX_Part 1_1307W
Result..... :	Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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Tested by:

Washan chen

Dashan Chen/Project Engineer

Approved by:

Jason Su

Jason Su/Manager

1 General Information

General Description of EUT:	
Product Name:	Smart Light Controller
Trade Name:	Ohli Kryptos
Model No.:	DNWC
Adding Model(s):	/
Rated Voltage:	100V-277VAC
Adapter Model:	/
IMEI:	/
Equipment Type:	Fixed Device

Technical Characteristics of EUT:	
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 12, 13
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 12: Tx: 699-716MHz, FDD-LTE Band 13: Tx: 777-787MHz
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz, FDD-LTE Band 12: Rx: 729-746MHz, FDD-LTE Band 13: Rx: 746-756MHz
RF Output Power:	FDD-LTE Band 2: 19.41dBm, FDD-LTE Band 4: 19.97dBm, FDD-LTE Band 5: 21.16dBm, FDD-LTE Band 12: 20.73dBm, FDD-LTE Band 13: 21.38dBm
Type of Emission:	FDD-LTE Band 2: 185KG7D FDD-LTE Band 4: 184KG7D FDD-LTE Band 5: 195KG7D FDD-LTE Band 12: 195KG7D FDD-LTE Band 13: 184KG7D
Type of Modulation:	BPSK,QPSK
Antenna Type:	External Antenna
Antenna Gain:	FDD-LTE Band 2: 3.56dBi, FDD-LTE Band 4: 2.12dBi, FDD-LTE Band 5: 3.04dBi, FDD-LTE Band 12: 2.01dBi, FDD-LTE Band 13: 2.81dBi

2 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A and the CAB identifier is CN0057.

3 RF Exposure Exemption

According to §1.1307(b)(3) and KDB 447498 D04 Interim General RF Exposure Guidance v01, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Option A: FCC Rule Part 1.1307 (b)(3)(i)(A): The available maximum time-averaged power is no more than 1mW, regardless of separation distance.

Option B: FCC Rule Part 1.1307 (b)(3)(i)(B): The available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

Option C: FCC Rule Part 1.1307 (b)(3)(i)(C): The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters.

Single RF Sources Subject to Routine Environmental Evaluation	
RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$
1.34-30	$3,450 R^2/f^2$
30-300	$3.83 R^2$
300-1,500	$0.0128 R^2 f$
1,500-100,000	$19.2 R^2$

For Multiple RF sources: FCC Rule Part 1.1307(b)(3)(ii):

- (A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required).
- (B) In the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1$$

4 Calculated Result

Radio Access Technology	Prediction Frequency	Output Power	Antenna Gain	Duty Cycle Factor	Max. Tune-up Time-Averaged Power	ERP
	(MHz)	(dBm)	(dBi)	(dB)	(dBm)	(dBm)
LTE Band 2	1850	19.41	3.56	0	20.00	21.41
LTE Band 4	1710	19.97	2.12	0	20.00	19.97
LTE Band 5	824	21.16	3.04	0	22.00	22.89
LTE Band 12	699	20.73	0	0	21.00	18.85
LTE Band 13	777	21.38	0	0	22.00	19.85

Radio Access Technology	Option	Min. Distance	Max. Power		Exposure Limit	Ratio	Result
		(cm)	(dBm)	(mW)	(mW)		Pass/Fail
LTE Band 2	C	20.00	21.41	138.36	768.00	0.18	Pass
LTE Band 4	C	20.00	19.97	99.31	768.00	0.13	Pass
LTE Band 5	C	20.00	22.89	194.54	421.89	0.46	Pass
LTE Band 12	C	20.00	18.85	76.74	357.89	0.21	Pass
LTE Band 13	C	20.00	19.85	96.61	397.82	0.24	Pass

Note: 1. For GSM, Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots;

2. Tune-up time-average power = Tune-up Power - Duty cycle factor in dB

2. Output Power=EIRP- Antenna Gain; ERP=EIRP-2.15dB

3. Option A, B and C refers as clause 1.2.

4. For option B, Max (time-averaged power, effective radiated power (ERP)) converts to Max. Power. For option C, ERP converts to Max. Power;

5. For option B, P_{th} (mW) converts to Exposure Limit (mW); For option C, ERP (W) converts to Exposure Limit (mW).

6. Ratio= Tune-up ERP (mW)/ Exposure Limit (mW)

Mode for Simultaneous Multi-band Transmission:

Radio Access Technology	Ratio 1	Ratio 2	Simultaneous Ratio	Limit	Result
					Pass/Fail
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Result: Pass