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RF Exposure Evaluation Report

Product : Digital Night Vision

Trade mark : Sytong

Model/Type reference : HT60

Serial Number : N/A

 Report Number
 : EED32M80106502

 FCC ID
 : 2AYFSHT60202012

Date of Issue : Jan. 06, 2021

47 CFR Part 1.1307 47 CFR Part 1.1310

Test Standards : KDB447498D01 General RF Exposure

Guidance v06

Test result : PASS

Prepared for:

Shenzhen Shi Yutong Technology Co. LTD Lianjian Science and Technology Industrial Park, Dalang Street, Longhua District, Shenzhen city, China

Prepared by:

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David Wang

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Reviewed by:

Date:

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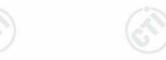
Aaron Ma

Jan. 06, 2021

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2 Version

Version No.	Date	6	Description	フ
00	Jan. 06, 2021		Original	
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General Information

4.1 Client Information

Applicant:	Shenzhen Shi Yutong Technology Co. LTD	
Address of Applicant:	Lianjian Science and Technology Industrial Park, Dalang Street, Longhua District, Shenzhen city , China	
Manufacturer:	Shenzhen Shi Yutong Technology Co. LTD	
Address of Manufacturer: Lianjian Science and Technology Industrial Park, Dalang Longhua District, Shenzhen city, China		
Factory:	Shenzhen Shi Hui Tong Technology Co. LTD	
Address of Factory:	Lianjian Science and Technology Industrial Park, Dalang Street, Longhua District, Shenzhen city , China	

4.2 General Description of EUT

Product Name:	Digital Nigh	t Vision		
Model No.(EUT):	HT60		(3)	
Trade Mark:	Sytong	(63)	(8,7)	(6)
EUT Supports Radios application:	2.4G WIFI			

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz		
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK)		
	IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)		
Test Power Grade:	Reference Table		
Test Software of EUT:	SecureCRT		
Antenna Type:	PCB Antenna		
Antenna Gain:	0 dBi		
Power Supply:	DC 5V		
Mary Canadyrate d Datale	8.15dBm		
Max Conducted Peak Output Power:	The Max Conducted Peak Output Power data refer to the report EED32M80106501		
Sample Received Date:	Dec. 04, 2020		
Sample tested Date:	Dec. 04, 2020 to Dec. 18, 2020		
1,071,79	The state of the s		

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

























4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164



None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.





































































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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06 Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\sqrt{f(GHz)} \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation 17

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion



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5.1.2 EUT RF Exposure

So,

The tune-up power is 7.5 dBm +/- 1.0dB, therefore the highest tune-up power is

8.5dBm (7.08mW) @2442 MHz

When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

(7.08mW / 5mm) * (2.442GHz^0.5)=2.21

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * $[\sqrt{f(GHz)}] = 2.21 < 3.0$

Therefore, standalone SAR measurements are not required for both head and body



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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32M80106501 for EUT external and internal photos.

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