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RF Exposure Evaluation Report

Digital Night Vision Product

Trade mark Sytong Model/Type reference : HT-66 **Serial Number** N/A

Report Number : EED32N80026502 FCC ID : 2AYFSHT66202101

Date of Issue : Feb. 23, 2021

> 47 CFR Part 1.1307 47 CFR Part 1.1310

Test Standards KDB447498D01 General RF Exposure

Guidance v06

Test result PASS

Prepared for:

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2 Version

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4 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 Street, Longhua District, Shenzhen city , China		
Factory: Shenzhen Shi Hui Tong Technology Co. LTD			
Address of Factory:	4th floor, No.4 Workshop, Lianjian Science and Technology Industrial Park, Huarong Road, Tongsheng Community, Dalang Street, Longhua District, Shenzhen city, Guangdong Province, China		

4.2 General Description of EUT

Product Name:	Digital Night Vision
Model No.(EUT):	HT-66
Trade Mark:	Sytong
EUT Supports Radios application:	2.4G WIFI: IEEE 802.11 b/g/n(HT20): 2412MHz to 2462MHz

4.3 Product Specification subjective to this standard

Frequency Range:	2412MHz	to 2462MHz	
Modulation Type:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g :OFDM(64QAM, 16QAM, QPSK, BPSK)		
modulation Type.	IEEE for 802.11n(HT20): OFDM (64QAM, 16QAM,QPSK,BPSK)		
Test Power Grade:	Reference Table		
Test Software of EUT:	SecureCRT		
Antenna Type:	FPC Antenna		
Antenna Gain:	3 dBi		
Power Supply:	Adapter:	Model:HNT-M520RZ Input:100-240V~50/60Hz0.3A Output:5.0V 2.0A	
Test voltage:	DC 5V		
Max Conducted Peak Output Power:	8.63 dBm		
	The Max Conducted Peak Output Power data refer to the report EED32N80026501		
Sample Received Date:	Jan. 15, 2021		
Sample tested Date:	Jan. 15, 2021 to Feb. 18, 2021		
1 4 31	1 10 01	(2)	

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.





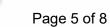






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4.4 Test Location

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

4.5 Deviation from Standards

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:

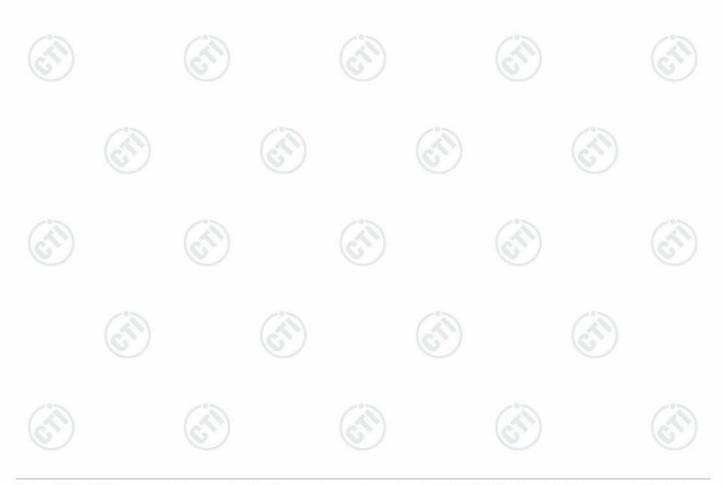
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

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

9dBm (7.94mW) @2462 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.

(7.94mW / 5mm) * (2.462GHz^0.5)=2.49

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] * [$\sqrt{f(GHz)}$] = 2.49 < 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. EED32N80026501 for EUT external and internal photos.

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