

TEST REPORT

Product Name : Video Voyager w LED Lights
Model Number : LED-21282, VLEDRIG200, VLEDRIG200-NOC,
VLEDRIG200-NOC-T80-4
FCC ID : 2A2WN-SCLED01

Prepared for : NINGBO SC-STARMAX IMP. & EXP. CO., LTD.
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1 TEST RESULT CERTIFICATION

Applicant : NINGBO SC-STARMAX IMP. & EXP. CO., LTD.
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 Manufacturer : NINGBO SC-STARMAX IMP. & EXP. CO., LTD.
 Address : 19F, Building 1, Lane 1255, Heqing North Road, Yinzhou District, Ningbo, Zhejiang, China
 Factory : NINGBO SC-STARMAX IMP. & EXP. CO., LTD.
 Address : 19F, Building 1, Lane 1255, Heqing North Road, Yinzhou District, Ningbo, Zhejiang, China
 EUT : Video Voyager w LED Lights
 Model Name : LED-21282, VLEDRIG200, VLEDRIG200-NOC, VLEDRIG200-NOC-T80-4
 Trademark : VIVITAR

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
§ 15.247(i), § 2.1093	PASS

The above equipment was tested by EMTEK(DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules FCC § 15.247(i), § 2.1093.

The test results of this report relate only to the tested sample identified in this report

Date of Test : Aug 27, 2024 to Sep 09, 2024

Prepared by : Jessica Zhang

Jessica Zhang /Editor

Reviewer : Warren Deng

Warren Deng /Supervisor



Approve & Authorized Signer : Sam Lv / Manager

Modified History

Version	Report No.	Revision Date	Summary
	EDG2408270020E00102R	/	Original Report



2 EUT SPECIFICATION

Characteristics	Description
Product:	Video Voyager w LED Lights
Model Number:	LED-21282, VLEDRIG200, VLEDRIG200-NOC, VLEDRIG200-NOC-T80-4 All products are identical except the model number. Here we selected LED-21282 for all the test.
Sample:	1#
Data Rate:	1Mbps for GFSK modulation
Modulation:	GFSK
Operating Frequency Range(s) :	2402-2480MHz
Number of Channels:	40 channels
Transmit Power Max:	0.80 dBm(0.001202 W)
Antenna Gain:	1.81 dBi
Power supply:	DC 5V from USB or DC 3.7V from battery
Evaluation applied:	<input type="checkbox"/> MPE Evaluation <input checked="" type="checkbox"/> SAR Evaluation

3 TEST REQUIREMENT

SAR Evaluation

According to 447498 D01 V06, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,²⁴ where

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation²⁵
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum *test separation distance* is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. 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.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

One antenna is available for the EUT. The minimum separation distance is 5mm.

4 MEASUREMENT RESULT

Antenna gain: 1.81 dBi

Transmit Frequency (MHz)	Mode	Measured Power (dBm)	Tune upPower (dBm)	Max tune up power (dBm)	Calculation Result	1-g SAR
2402	GFSK (1M)	0.80	1±1	2	0.4913	3
2440	GFSK (1M)	-0.57	0±1	1	0.3933	3
2480	GFSK (1M)	-3.58	-3±1	-2	0.1987	3

According to KDB 447498 D01 V06, no stand-alone required for BT antenna, and no simultaneous SAR measurement is required.

*** End of Report ***