

Report No.: NTC2311201F01

RF EVALUATION TEST REPORT

Applicant.....: :Feit Electric Company

Manufacturer.....: National State Industries Limited

Address......: :XinXing Group, WuLian Village, FengGang Town, DongGuan City, Guangdong

Province, 523695 China

Factory....: :National State Industries Limited

Address......: :XinXing Group, WuLian Village, FengGang Town, DongGuan City, Guangdong

Province, 523695 China

Product Name...... :2Lens Motion Camera Security Flood Light

Brand Name.....: :Feit Electric, Naspil

Model No.: SEC5000CAM2/RP, USF001/5000/WFBLE/850LEDF/180CAMDM/270PIR-WT,

SEC5000CAM2,

USF001/5000/WFBLE/YZZZZLEDF/180CAMDM/270PIR-XXXX

(For model difference refer to section 2.)

FCC ID.....: :SYW-SEC5000CAM2

Measurement Standard.....: :47 CFR PART 2, Section 2.1091

Receipt Date of Samples.... : November 13, 2023

Date of Tested...... :November 13, 2023 to March 21, 2024

Date of Report..... : May 15, 2024

This report shows that above equipment is technically compliant with the requirements of the standards above.

All test results in this report apply only to the tested sample(s). Without prior written approval of Dongguan Nore

Testing Center Co., Ltd, this report shall not be reproduced except in full.

Prepared by

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Revision History

Report Number	Description	Issued Date
NTC2311201F01	Initial Issue	2024-05-15





1. General Description of EUT

Product Information						
Product Name:	2Lens Motion Camera Security Flood Light					
Main Model Name:	SEC5000CAM2/RP					
Additional Model Name:	USF001/5000/WFBLE/850LEDF/180CAMDM/270PIR-WT, SEC5000CAM2, USF001/5000/WFBLE/YZZZZLEDF/180CAMDM/270PIR-XXXX ("Y" represents CRI color rendering index, "ZZZZ" represents CCT color temperatu "XXXX" represents the color of the luminaire)					
Model Difference:	These models have the same circuit schematic, construction, PCB Layout and critical components. Their differences are model name, CRI, CCT color parameters and trade mark due to trading purpose.					
S/N:	2311-5641					
Brand Name:	Feit Electric, Naspil					
Hardware Version:	V1.0					
Software Version:	V1.0					
Rating:	AC 120V 60Hz					
Classification:	Class B					
Typical Arrangement:	Table-top					
I/O Port:	Refer to the user manual					
Accessories Information						
Adapter:	N/A					
Cable:	N/A					
Other:	N/A					
Additional Information						
Note:	According to the model difference and manufacturer's requirement, all tests were performed on model SEC5000CAM2/RP.					
Remark:	All the information above are provided by the manufacturer. More detailed feature of the EUT please refers to the user manual.					





Technical Specification (I	BLE)
Bluetooth Version:	V5.2
Frequency Range:	2402-2480MHz
Modulation Type:	GFSK
Number of Channel:	40 (refer to following channel list for details)
Channel Space:	2MHz
Antenna Type:	FPC antenna
Number of Antenna	1
Antenna Gain:	2.52 dBi (Declared by the manufacturer)
RF PHY Support:	1Mbps

Technical Specification	
Frequency Range:	2412-2462MHz for IEEE 802.11b/g/n(HT20)/ax(HE20)
Modulation Technology:	DSSS, OFDM, OFDMA
Modulation Type:	CCK, DQPSK, DBPSK, QPSK, BPSK, 16-QAM, 64-QAM, 1024QAM
Number of Channel:	11
Channel Space:	5MHz
Antenna Type:	FPC antenna
Antenna Gain:	2.52dBi (Declared by the manufacturer)





2. Test Facility and Location

Test Site	:	Dongguan Nore Testing Center Co., Ltd. (Dongguan NTC Co., Ltd.)			
Accreditations and	:	The Laboratory has been assessed and proved to be in compliance with			
Authorizations		CNAS/CL01			
		Listed by CNAS, August 13, 2018			
		The Certificate Registration Number is L5795.			
		The Certificate is valid until August 13, 2024			
		The Laboratory has been assessed and proved to be in compliance with			
		ISO17025			
		Listed by A2LA, November 01, 2017			
		The Certificate Registration Number is 4429.01			
		Listed by FCC, November 06, 2017			
		Test Firm Registration Number: 907417			
		Listed by Industry Canada, June 08, 2017			
		The Certificate Registration Number. Is 46405-9743A			
Test Site Location	:	Building D, Gaosheng Science and Technology Park, Hongtu Road,			
		Nancheng District, Dongguan City, Guangdong Province, China			

3. Applicable Standards and References

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Test Standards:

47 CFR Part 1, 1.1307 47 CFR Part 2, 2.1091 KDB 447498 D04 v01



4. Maximum Permissible Exposure Limit

According to 47 CFR Part 1, 1.1307, for single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if: 47 CFR Part 1, 1.1307

- (A) The available maximum time- averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or 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. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

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

Where.

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

And,

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

d = the minimum separation distance (cm) in any direction from any part of the device antenna(s) or radiating structure(s) to the body of the device user.

For multiple RF sources: Multiple RF sources are exempt if:



- (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 be-tween 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). This exemption may not be used in conjunction with other exemption criteria other than those is paragraph (b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(i)(A).
- (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.

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

Where,

a = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(B) of this section for P_{th}, including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using para-graph (b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or port-able RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i= the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

 $P_{th,i}$ = the exemption threshold power (Pth) ac-cording to paragraph (b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i.

ERP;= the ERP of fixed, mobile, or portable RF source j.

 $ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph (b)(3)(i)(C) of this section.



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 $Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

Exposure Limit_k= either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from $\S 1.1310$ of this chapter.

5. RF Exposure Evaluation Results

Single RF Source								
Mode	Frequency (MHz)	Max. Conducted Power (dBm)	Antenna Gain (dBi)	Max. EIRP (dBm)	Max. ERP (dBm)	Max. ERP (mW)	Separation Distance (cm)	Part 1.1307 Option (B) Pth (mW)
2.4G WLAN	2462	22.913	2.52	25.433	23.283	212.96	20	3060
BLE	2480	5.074	2.52	7.594	5.444	3.50	20	3060

RF exposure evaluation for simultaneity transmitting condition:

Maximum ERP Ratio BT	Maximum ERP Ratio WIFI	Max. total ERP Ratio	Limit
0.00114	0.06959	0.07073	1

Conclusion:

According to 47 CFR $\S1.1307$ (b)(3)(i)(B), the RF exposure analysis concludes that the product is compliant with the FCC RF exposure requirements in mobile exposure condition.