

# King Electrical Manufacturing Company

# TEST REPORT

**Model:**

KRF-PIR-SENSOR

**REPORT NUMBER**

240800154THC-001

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**TEST REPORT**

# RF Exposure Evaluation Report

<b>Applicant:</b>	<b>King Electrical Manufacturing Company 9131 10th Avenue South Seattle,WA 98108 USA</b>
<b>Product:</b>	<b>PIR SENSOR</b>
<b>Model No.:</b>	<b>KRF-PIR-SENSOR</b>
<b>FCC ID:</b>	<b>2BH5BKRF-PIR-SENSOR</b>
<b>Test Method/ Standard:</b>	<b>47 CFR FCC 1.1310 KDB 447498 D04</b>
<b>Test By:</b>	<b>Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 17, Ln. 246, Niupu S. Rd., Xiangshan Dist, Hsinchu City 300075, Taiwan</b>



*Rich Nien*

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Reviewer

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### Revision History

Report No.	Issue Date	Revision Summary
240800154THC-001	Oct. 24, 2024	Original report

**Table of Contents**

1. General Information ..... 4  
    1.1 Identification of the EUT ..... 4  
    1.2 Antenna description ..... 4  
    1.3 Peripherals equipment ..... 4  
2. RF Exposure Test Exemptions ..... 5  
3. Test results..... 5

## 1. General Information

### 1.1 Identification of the EUT

<b>Product:</b>	PIR SENSOR
<b>Model No.:</b>	KRF-PIR-SENSOR
<b>Operating Frequency:</b>	915.055 MHz
<b>Channel Number:</b>	Single channel
<b>Rating:</b>	DC 3V
<b>Power Cord:</b>	N/A
<b>Sample receiving date:</b>	2024/10/09
<b>Sample condition:</b>	Workable
<b>Test Date(s):</b>	2024/10/17 ~ 2024/10/22

### 1.2 Antenna description

Antenna Type: Spring Antenna  
Connector Type: Fixed  
Antenna Gain: 2.5 dB ± 2dB

### 1.3 Peripherals equipment

Peripherals	Brand	Model No.	Serial No.	Description of Data Cable
Battery*2	Panasonic	ALKALINE	N/A	N/A

**TEST REPORT**

**2. RF Exposure Test Exemptions**

**1-mW Test**

ExemptionPer § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption applies to all operating configurations and exposure conditions, for the frequency range 100 kHz to 100 GHz, regardless of fixed, mobile, or portable device exposure conditions. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

**3. Test results**

Mode	Frequency (MHz)	Antenna Gain (mW)	Output power (dBm)	Output power (mW)	Tune-up Power Tolerance (dB)	Max Tune-up Power (dBm)	Max Tune-up Power (mW)	Power density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Distance (cm)
FSK	915.055	2.82	3.81	2.40	2.00	5.81	3.81	0.002	0.61	20