

## King Electrical Manufacturing Company

# **TEST REPORT**

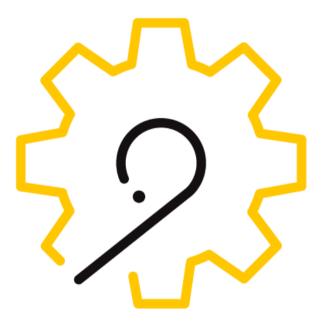
Model: KRF-PIR-SENSOR

**REPORT NUMBER** 240800154THC-001

**ISSUE DATE** Oct. 24, 2024

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**TEST REPORT** 

### RF Exposure Evaluation Report

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



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Report No.: 240800154THC-001

#### **Revision History**

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



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#### **1.** General Information

#### 1.1 Identification of the EUT

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



#### 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<br>(MHz) | Antenna<br>Gain<br>(mW) | Output<br>power<br>(dBm) | Output<br>power<br>(mW) | Tune-up<br>Power<br>Tolerance<br>(dB) | Max<br>Tune-up<br>Power<br>(dBm) | Max<br>Tune-up<br>Power<br>(mW) | Power<br>density<br>(mW/cm²) | Limit<br>(mW/cm²) | Distance<br>(cm) |
|------|--------------------|-------------------------|--------------------------|-------------------------|---------------------------------------|----------------------------------|---------------------------------|------------------------------|-------------------|------------------|
| FSK  | 915.055            | 2.82                    | 3.81                     | 2.40                    | 2.00                                  | 5.81                             | 3.81                            | 0.002                        | 0.61              | 20               |