**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Model</th>
<th>SIP-3020</th>
<th>SIP-3020WF</th>
<th>SIP-4010WF</th>
<th>SIP-4040WF</th>
<th>SIP-404</th>
<th>SIP-5040</th>
<th>SIP-5040S</th>
<th>SIP-5050</th>
<th>SIP-5050S</th>
</tr>
</thead>
<tbody>
<tr>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Coverage (Horizontal) (Vertical) (DIagonal)</td>
<td>100 x 65 ft.</td>
<td>130 x 33 ft.</td>
<td>40 x 10 m</td>
<td>40 x 10 m</td>
<td>40 x 4 m</td>
<td>30 x 20 m</td>
<td>50 x 30 m</td>
<td>50 x 30 m</td>
<td>40 x 10 m</td>
</tr>
<tr>
<td>Weight</td>
<td>1.0 kg (2.2 lb)</td>
<td>1.0 kg (2.2 lb)</td>
<td>1.2 kg (2.6 lb)</td>
<td>1.4 kg (3.1 lb)</td>
<td>1.6 kg (3.5 lb)</td>
<td>1.8 kg (4.0 lb)</td>
<td>2.5 kg (5.5 lb)</td>
<td>2.5 kg (5.5 lb)</td>
<td>2.5 kg (5.5 lb)</td>
</tr>
</tbody>
</table>

**OPERATIONS**

- **Laser Protection Class**: Max. 50 mW (Laser) 5 mW (For Link) (Near infrared)
- **Horizontal Area**: 130 x 33 ft.
- **Vertical Area**: 40 x 10 m
- **Detection Range**: 30 m (Approx. 100 ft.), Arc:190° at 10% reflectivity
- **Detection Method**: Passive Infrared
- **Power Input**: 24 VDC, 24 VAC
- **Environmental Qualification Circuit**: IP66
- **Tamper Output**: Form C, 28 VDC, 0.2 A max.
- **Master Alarm Output**: N.C., 28 VDC 0.1 A max.
- **Camera Control Output**: N.C., 28 VDC 0.2 A max.
- **Mounting Height**: 0.7 m (28 in.) (recommendation)
- **Current Draw**: 40 μA (Standby) 5 mA max. (Operating LED ON)
- **Mounting Angle**: 26 ~ 90° (H), 38° (M), 147° (L)
- **Operating Temperature**: -40 to 60 °C (-40 to 140°F)
- **Protocol**: UDP, TCP/IP

**PRODUCT DIGEST**

REDSCAN / REDWALL are indoor/outdoor detectors which are specialized for these video surveillance applications. By providing highly reliable detection, they enable operators to obtain crucial images of crime, vandalism, terrorism, or other threats, and to take appropriate actions.

**REDSCAN**

- **Camera**
  - Laser Video Response
  - Remote Video Response
  - Intruder Detection System
  - Video Transmission to Security Room

**REDWALL**

- **Camera**
  - Laser Video Response
  - Remote Video Response
  - Intruder Detection System
  - Video Transmission to Security Room

**Operation flow chart for LVR and RVR**

1. An intruder is detected and camera operates.
2. A Report is sent to operators in the control room.
3. A guard is dispatched.

**For Highly Reliable Detection**

The protection of outdoor assets and the prevention of unauthorized entry is a serious issue for large properties, such as commercial facilities, logistics centers, power plants, and offices or industrial facilities. Effective protection must deter intrusion to the facilities.

One option for solving security issues is local video response (LVR), in which the security guards use a video surveillance system linked with external detectors. If the detector detects an intrusion, a linked camera captures the image, sends it to the security room, and guards are dispatched to the site to check the problem. Local video response provides a more efficient use of security resources than the traditional use of guards.

Remote video response (RVR) is another solution. This system uses linked external detectors, video transmission, and speakers to protect the site remotely. If a linked detector is triggered, the operator checks the image, and makes a voice warning remotely. If necessary, the remote video response center dispatches guards or reports the event to key-holders and to police.
Laser Scan Detector

Layered Protection for Site Response

The RLS-2020 series is a compact and highly customizable Laser Scan detector that helps protect in an unobstructed way, houses, buildings, flat roofs, controlled areas and assets by creating an invisible laser wall or plane and detecting any intrusion breaching it.

**RLS-2020S**
- Detection range expansion mode (Up to 50m/165ft radius)
- Built-in heater

**RLS-2020I**
- Area masking / Allocation function (Either pattern can be set.)
- Selectable output relays (N.O./N.C.)

**RLS-3060SH**
- Fog cancellation algorithm (Patent listed)
- 8 independently adjustable detection area
- Scene selection (outdoor, indoor, loitering)
- Automatic area setting function
- Unique detection algorithm
- Vertical and horizontal mounting

**RLS-3060L**
- 30m (100ft.) coverage
- Protection from vandalism
- Quick and reliable installation
- Reduction of false alarms

**REDWALL-V** employs five innovative sensing technologies

1. **Technology I**
   - PIR sensor with double conductive shielding
   - for visible light and RF protection.

2. **Technology II**
   - *Thermo-sensor for automatic sensitivity adjustment

3. **Technology III**
   - *Illuminance sensor for automatic sensitivity adjustment

4. **Technology IV**
   - Photo-beam sensor for anti-masking

5. **Technology V**
   - Accelerometer for anti-rotation

By using these five technologies, The REDWALL-V series provides the following three benefits:

1. Reduction of false alarms
2. Quick and reliable installation
3. Protection from vandalism

*REDWALL-V uses surrounding temperature and luminance information to optimize its sensitivity to reduce false alarms.
### RLS-3060 series

The RLS-3060 series is an innovative laser scan detector that identifies a moving object's size, speed and distance from the detector. It processes that information with a unique algorithm, resulting in a highly reliable detection system with minimal false alarms.

**FEATURES**
- ±10m radius for 150 degrees range
- Vertical and horizontal mounting
- Unique detection algorithm
- Automatic area setting function
- Scene selection (outdoor, indoor, loitering)
- ±10m independently adjustable detection area (4 linked zone outputs on Analog connection and 8 IP zones)
- Fog cancellation algorithm (Patent listed)

### RLS-3060L

- Selectable output relays (N.O., N.C.)
- Scene selection function (Either pattern can be set.)
- Selectable output relays (N.O., N.C.)
- Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Vertical and horizontal mounting
- 30m radius for 190 degrees range

### RLS-3060SH

- Built-in heater
- Detection range expansion mode (Up to 50m/165ft radius)
- Area masking / Allocation function (Either pattern can be set.)
- Selectable output relays (N.O., N.C.)

### RLS-3060S

- Detection range expansion mode (Up to 50m/165ft radius)
- Built-in heater
- Area masking / Allocation function (Either pattern can be set.)
- Selectable output relays (N.O., N.C.)

**RLS-2020 series**

The RLS-2020 series is a compact and highly customizable Laser Scan detector that helps protect in an unobstructed way, houses, buildings, flat roofs, controlled areas and assets by creating an invisible laser wall or plane and detecting any intrusion breaching it.

**FEATURES**
- RLS-2020L: Distance expanded to a 30m (97.5ft) radius arc, 95 degree detection angle
- RLS-2020I: 20m x 20m (65ft x 65ft), 95 degree detection area
- Vertical and Horizontal detection modes
- Multi-angle Adjustment Shell Structure (M.A.S.S.)
- Unique detection algorithm
- Automatic area setting function
- Advanced area setting
- Adjustable detection areas on IP connection
- Total 3 outputs can be assigned for analog connection
- Background recognition range adjustment

### RLS-2020I

- Indoor use model

### RLS-2020S

- Outdoor / indoor mode
- Indoor high resolution mode
- Indoor throw-in mode

---

**REDWALL-V** employs five innovative sensing technologies:

1. **PIR sensor with double conductive shielding** for visible light and RFI protection.
2. **Thermo-sensor for automatic sensitivity adjustment**
3. **Illuminance sensor for automatic sensitivity adjustment**
4. **Photo-beam sensor for anti-masking**
5. **Accelerometer for anti-rotation**

By using these five technologies, the REDWALL-V series provides the following three benefits:

1. **Reduction of false alarms**
2. **Quick and reliable installation**
3. **Protection from vandalism**

*REDWALL-V uses surrounding temperature and luminance information to optimize its sensitivity to reduce false alarms.

---

**Synthesized Intelligent PIR**

### SIP-3020

- Standard short range type

### SIP-3020WF

- Battery operated
- Short range type
- Compatible with wireless transmitter

### SIP-3020/S

- Short range type
- 48m creep zone

### SIP-3020/5

- 20 (65) +90° horizontally and -90 to +3° vertically.

### SIP-3020/5S

- 20 (65) +90° horizontally and -90 to +3° vertically.

### SIP-3020WF/5

- 20 (65) +90° horizontally and -90 to +3° vertically.

**SIP-3020/5S**

- With creep zone

**SIP-3020/5S**

- With creep zone

**SIP-3020WF/5**

- With creep zone

**SIP-3020WF/5S**

- With creep zone

---

**REDWALL-V series**

### SIP-3020/WF

- Standard short range type

### SIP-4010/WF

- Short range type
- 30 (100) +90° horizontally and -90 to +3° vertically.

### SIP-4010/5S

- 30 (100) +90° horizontally and -90 to +3° vertically.

### SIP-4010/S

- 30 (100) +90° horizontally and -90 to +3° vertically.

### SIP-4010/5

- 30 (100) +90° horizontally and -90 to +3° vertically.

### SIP-4010/5S

- 30 (100) +90° horizontally and -90 to +3° vertically.

---

**SIP-4010/5S**

- With creep zone

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**Image Description**

- Laser Scan Detector
- RLS-3060 series
- RLS-2020 series
- Synthesized Intelligent PIR
- REDWALL-V series

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*Image credits:*

- [Image: Laser Scan Detector RLS-2020 series](image)
- [Image: REDWALL-V series](image)

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*Note:* The package includes SIP detector with built-in EN1941 transmitters from Inovonics.
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions (H x W x D)</strong></td>
<td>227 x 102 x 266 mm (9.0 x 4.0 x 10.5 in.)</td>
<td>334 x 144 x 155 mm (13.2 x 5.7 x 6.1 in.)</td>
<td>248 x 102 x 266 mm (9.8 x 4.0 x 10.5 in.)</td>
<td>30 x 20 m</td>
<td>40 x 10 m</td>
<td>40 x 10 m</td>
<td>30 x 20 m</td>
<td>40 x 10 m</td>
<td>40 x 10 m</td>
<td>40 x 10 m</td>
<td>40 x 10 m</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.3 kg (85 oz)</td>
<td>2.4 kg (85 oz)</td>
<td>1.4 kg (48 oz)</td>
<td>45 kg</td>
<td>20 kg</td>
<td>20 kg</td>
<td>12 kg</td>
<td>20 kg</td>
<td>20 kg</td>
<td>20 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td><strong>Mounting height</strong></td>
<td>1.5 m (5 ft.)</td>
<td>2.4 m (8 ft.)</td>
<td>2.0 m (6.6 ft.)</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
<td>1.5 m</td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>0.75 s</td>
<td>0.75 s</td>
<td>0.75 s</td>
<td>0.3 s (for Indoor high resolution mode)</td>
<td>0.3 s</td>
<td>0.3 s</td>
<td>0.3 s</td>
<td>0.3 s (for Indoor high resolution mode)</td>
<td>0.3 s</td>
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### REDSCAN / REDWALL PRODUCT DIGEST

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**REDSCAN and REDWALL** are indoor/outdoor detectors which are specialized for these video surveillance applications. By providing highly reliable detection, they enable operators to obtain crucial images of crime, vandalism, terrorism, or other threats, and to take appropriate actions.

**Operation flow chart for LVR and RVR**

**Local Video Response**

1. Event
2. Verify
3. Response

- An intruder is detected and camera operators
- A report is sent to operators in the control room
- A guard is dispatched.

**Remote Video Response**

1. Event
2. Verify
3. Response

- An intruder is detected and camera operators
- Video is transmitted to the remote video response center
- A guard is dispatched.