



PRODUCT SUMMARY

The Image Sensor is a pet immune PIR (passive infrared) motion detector with a built-in camera. The sensor is designed to capture images during alarms or non-alarm events when motion is detected. Users can also initiate image capture on demand in. Plans in on-line properly. Images are stored locally and uploaded either automatically when motion is captured during alarm events or manually when requested by the user. Once uploaded, images are available for viewing on the Alarm.com Website or an Alarm.com Smart phone app. The sensor is battery powered, all wireless and simple to install and operate. Both an Alarm.com module and subscription to an Alarm.com service plan are required.

Highlighted Features

- Battery operated
- Communicates wirelessly to the security control panel
- 30 feet by 40 feet detection coverage area
- Configurable PIR sensitivity and pet immunity settings
- Images: 640x480 30FPS (frames per second)
- Color images (except in night vision)
- Night vision image capture with infrared flash (black & white)
- Tamper detection, multi-task mode, supervision

Service Plan Options

Image capture features require either an Alarm.com Basic or Advanced Interactive Service Plan and one of the following Image Service add-ons:

- **Image Sensor Alarm:** Includes upload of images from alarm events only.
- **Image Sensor Plus:** Includes upload of images from alarm events and non-alarm events. User can configure daily time schedule to receive images automatically each day or. Plans in to initiate an on-demand image capture immediately or when the motion occurs. Users can also request images that are captured automatically while the system is Armed/Away or following a Change from an Armed/Away state. Up to 60 captured events can be uploaded per month. Additional image uploads may be added in increments of 20 at an additional charge.

HARDWARE COMPATIBILITY

- **Security Control Panel:** Interlogix Simon XT v1.3 or higher or XT1 v1.3 or higher
- **Alarm.com Module:** Simon XT Module with firmware 1.44 or higher (XT1 requires module with firmware 1.55 or higher)
- **Required Daughterboard:** Image Sensor daughterboard (attached to compatible Alarm.com module)
- **Available Zones:** One zone per Image Sensor installed. (On the Simon XT only, one additional zone is required for the required daughterboard. Up to three Image Sensors may be added per system. (Note: The Alarm.com Q500 Module V4 is required to use both Image Sensor and motion™.)

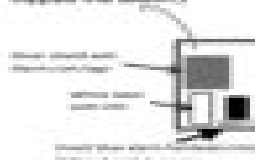
SOFTWARE INSTALLATION

1. **Create Alarm.com Customer Account:** Select service plan including Image Sensor add-on and register the Alarm.com module serial number on the Alarm.com Website.
2. **Install Image Sensor Daughterboard:** Locate the connector on the back of the daughterboard. Remove the green backing from the daughterboard mounting adhesive. While the module is powered down, align the daughterboard and module connector. Press to secure. (NOTE: Verify module compatibility before attaching. Once attached, daughterboard is difficult to remove and removing may damage hardware.)



3. Install Alarm.com Module Inside Control Panel

4. **FOR SIMON XT ONE, P, Connect Daughterboard Alarm Wire:** On the XT panel, the Alarm.com module is not required and should not be connected. For XT1 panels, step to step 5. When using the Simon XT panel, you must connect the included blue wire from the "PIR" hardware output located on the daughterboard (pins "PIR" not "C") to the "PIR2 IN" terminal (3) and on the Simon XT panel to enable local alarm activations. Once an Image Sensor has been enrolled into the panel, a hardware panel will automatically be programmed as "Sensor 20: 0000". To ensure alarms are triggered properly on Image Sensors according to their enrolled group, the hardware sensor group is automatically configured. Do NOT alter the sensor group of Sensor 20: 0000. (Note: On the Simon XT, the panel screen will display "Sensor 20: 0000 Alarm" regardless of which Image Sensor triggered the alarm. The Alarm.com Website & notifications, and the central station report will indicate the specific Image Sensor that triggered the alarm.)



Top of Image Sensor Daughterboard



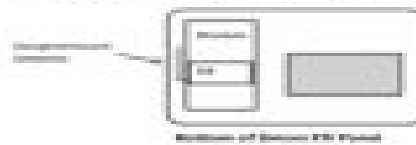
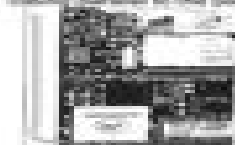
Bottom of Simon XT Panel

5. **Route Daughterboard Antenna:** It is important to be sure that daughterboard antenna is pulled away from the Alarm.com module. Follow the panel-specific antenna routing guidelines to optimize sensor range.

Simon XT: The antenna should be pulled down off the Alarm.com module and routed in a "U" shape to the left towards the corner of the panel (when looking at the panel from behind).



Simon XT1: Bend the antenna at a 90° angle 1" of an inch from the edge of the daughterboard. The daughterboard antenna should rest inside the panel's plastic enclosure in the panel.



Bottom of Simon XT1 Panel

6. **Register Module and Test:** Power the panel and initiate a commission test to ensure the Alarm.com module is properly installed and communicating with the Alarm.com POC.

2. Enroll Sensor in Panel

Simon XT: To enroll the sensor on a Simon XT, follow these steps at the control panel:

- a. Begin with the batteries removed from the sensor.
- b. On the panel, scroll until the screen displays "System Programming," and press OK.
- c. Enter the installer code (default 4-3-2-1), and press OK.
- d. Scroll up to "Interactive Services," press OK.
- e. Scroll down to "Image Sensor Setup," press OK.
- f. Scroll to "Image Sensor Learn Mode," press OK. The screen should display "Power up (at least 15 min)."
 - i. Insert the batteries into the sensor. Wait (approximately 20 seconds) for the control panel screen to display: "1.5. [x] Added as Sensor [x]." The LED on the sensor will turn amber for ~5 seconds once the sensor has enrolled.
- g. Perform another panel commission test to be sure that Alarm.com receives the updated device equipment list. This will speed up the sensor initialization process.

The sensor is now learned into the panel. Sensors are enrolled in group 17 by default. To change the sensor group, use the Sensors menu in System Programming. Image Sensors may be enrolled in groups 15, 17, 20, or 28. (30 zones reserved for group 28.) On the Simon XT, a mix of sensor groups 15/17 and 28 are not supported. If Image Sensors are in group 15 or 17, they cannot also be in group 28, and vice versa. After enrollment, be sure to keep the sensor and panel powered to the sensor can complete its initialization process with the Alarm.com Network Operations Center. This process will take several minutes. Images cannot be captured until initialization is complete.

Monitronics Setup Manual

Seeburg Corporation (Chicago, Ill.)



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sep 1 2021 in this paper a novel wideband hexagonal cavity backed slot antenna array waveguide siw is proposed first a single element low profile wideband linearly polarized cavity backed antenna using two slots is designed and analyzed the antenna bandwidth is increased by nrws which makes both hybrid modes of tm input impedance keywords

a high performance siw slot antenna array for mmwave radar - May 17 2023

jul 24 2023 the feed network of the antenna is composed of an air filled rectangular waveguide rwg to substrate integrated waveguide siw transition and a power division feed network finally the array element and the feed network are combined to form an 8 times 16 slot array the overall simulation design is carried out in hfss