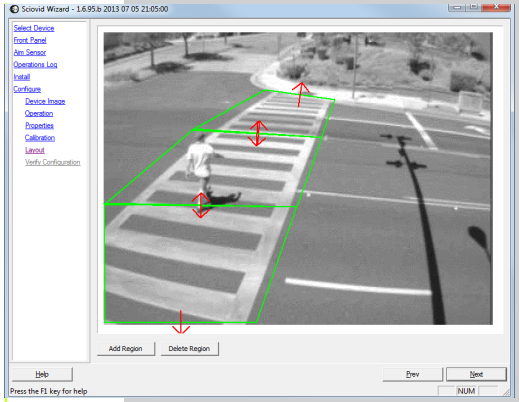
Product Description

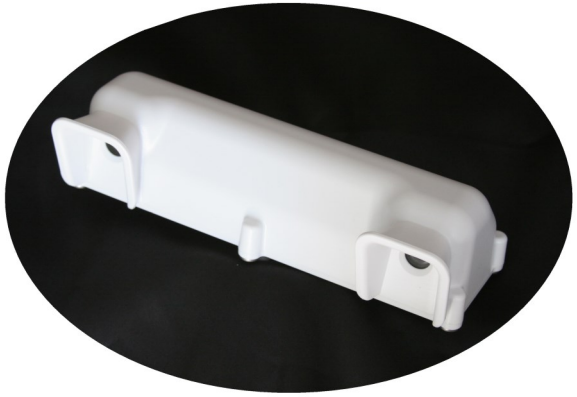
Sciovid Inc. introduces the next generation of video based sensing technology for the transportation industry: **J5**.

J5 uses stereo vision to detect pedestrians and vehicle traffic in and around intersections and pedestrian crossings. Real time stereo vision allows **J5** to detect objects in the sensor's field of view while ignoring confusing artifacts, such as shadows, reflections, water, snow or debris on the ground, etc. **J5** has unparalleled detection accuracy and false alarm rates.

J5's design allows for easy installation on existing intersection poles; typically just above the signal head, 3 to 5 meters above the ground.



J5's simple configuration wizard programs the sensor via Windows PCs (running Windows XP or Vista). The Wizard allows the user to configure, update software, and view state and operation logs. User-friendly menus define site specific detection information, such as the region of interest and the direction of travel required to activate an output.



J5's 3 models address specific detection applications:

Model	Description
73100	Waiting Area
73200	On-Crossing
73300	Vehicle Stop Line

The **J5 Waiting Area** model detects pedestrians waiting to cross the road. **J5** ignores pedestrians who have crossed the road and are leaving the waiting area. The time allowed for the pedestrian to leave the area before placing a new call is programmable.

The **J5 On-Crossing** model detects the presence of pedestrians crossing the road. This monitoring allows the controller to adjust the "don't walk" cycle in real time to simultaneously enhance the safety needs of slower pedestrians and minimize traffic delay with faster pedestrians. This model provides a unique solution to the often competing demands of safeguarding pedestrians on the one hand and improving traffic flow, increasing fuel efficiency and reducing pollution on the other.

The **J5 Vehicle Stop Line** model detects the presence of vehicular traffic at the crosswalk or intersection stop line. The sensor detects the presence of stopped or slow moving vehicles for 1 or 2 lanes of traffic.

Specifications:

Stereo Performance:
- Sensor Mounting Height: 10-16.5 Ft (3-5 M)
- Waiting Area Range: 3-30 Ft. (1-9 M)
- On-Crossing Range: 16-75 Ft. (5-23 M)
- Min. Object Size: 3.3 x 1.6 x 0.7 Ft (1 x 0.5 x 0.2 M)
- Object Speed: 1-22 MPH (1-36 KPH)
- All Weather, Lighting, Pedestrian and Traffic Congestion Levels

Power Requirements:
- 17-30 Volts AC or DC
- 3.0 Watts Nominal
- 4.5 Watts with Heaters On

Cameras:
- CMOS B/W VGA Sensor
- ¼" Image Format
- Min. Illumination (3000K) 0.04 Lux @ f1.2
- S/N Ratio : 50 dB
- Dynamic Range: 60 dB
- Custom Synchronization for Stereo Video

External Connectors
- 9 pin Bulgin Connector
  - 3 wires Power and Safety Ground
  - 2 wires RS485
  - 3 wires Dry Contact Output
- Optional Video Output BNC

Output:
- Dry Contact Form C
- Normally Open and Normally Closed
- Contact Rating:
  - 0.5 A at 12 VAC
  - 1 A @ 24 VDC

Communications:
- RS-485 Half-Duplex
- 115 Kb/sec
- Multi-drop Addressing

Enclosure:
- Overall H x W x D: 3" x 10.5" x 4.2" (7.6 cm x 26.7 cm x 10.7 cm)
- Weight: 1.1 lb (0.5 kg)
- Water and Dustproof Rating: IP-56
- Thermostatically Controlled Faceplate Heaters
- Mounting: US – Standard ¼"-20 Thread, Euro – 6mm Thread
- Black or White UV Resistant Housing
- 4 Status LEDs: Running, Comm., Output 2 On/Off, Output 1 On/Off

Features

- Cost-effective solution for pedestrian and vehicular traffic and surveillance
- Pedestrian and Vehicle Stop line presence detection
- High accuracy achieved through stereo vision
- Improved safety and signal coordination
- Stereo vision with integrated video analytics engine
- Superior low light performance
- Easy to install and configure
- Flexible deployment at low mounting heights
- Use a PC to configure and manage sensor system
- Direct contact closure outputs (no additional I/O hardware)
- RS485 multi-drop communications
- Low Power: 3 W nominal, 4.5 W with heaters on.
- High energy transient protection
- CE and RoHS compliant

Environmental:
Ambient Temperature: -29 F to 140 F (-34 C to +60 C)
Humidity: 100% relative humidity, non-condensing, per MIL-E-5400T paragraph 3.2.24.4

Regulatory:
CE EN 55022, EN 61000-6-1, EN 60950
FCC Part 15, Class A
RoHS Compliant

Warranty:
2 Years Standard
Extended Warranty to 5 Years

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Traffic applications and video based detection

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