IOM PassThru™ Drive-up Iris Recognition System

SRI’s standoff biometric system for vehicle entry points brings the absolute security of iris recognition to drive-up applications. This breakthrough product extends the use of identity authentication to the edge—the farthest access points.

Easy-to-use and automated, the IOM PassThru system can efficiently replace RFID cards, passcodes, or security guards while adding the ability to know exactly who has just entered the gate. Unlike cards or passcodes, a person’s iris cannot be shared. Access is granted only to a specific individual, not to someone else with that person’s card, password, or fraudulent documentation.

The convenient PassThru system minimizes user interaction, setting it apart from other biometric readers. It eliminates the need for drivers to remove gloves, headgear, and eyewear, or to exit their vehicles—they simply roll down their window, push start, and look at the light.

Notably, the PassThru system performs well outdoors in all lighting conditions, regardless of time of day, sun position, or shadows. The fast and easy verification process works with drivers in vehicles of various heights—from small coupes to large pickup trucks.

This drive-up configuration expands the possibilities of iris recognition for security applications, leveraging biometrics for border crossings and critical infrastructures, as well as card-free parking and drive-thru banking.

The IOM PassThru system can be deployed at any vehicle access point to expedite passage, record events, improve situational awareness, extend the perimeter, and enhance security.

Quick, accurate identification at secure perimeters

IOM PassThru
Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
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</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>71 cm x 236 cm x 76 cm (28 in x 93 in x 30 in)</td>
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<tr>
<td>Standoff Distance</td>
<td>55 to 90 cm (22 to 36 in)</td>
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<tr>
<td>Capture Volume (W x H x D)</td>
<td>30.5 cm x 86 cm x 35 cm (12 in x 34 in x 14 in)</td>
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<tr>
<td>Throughput</td>
<td>10 vehicles per minute (typical)</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>120/240 volts; 10 amps; 1000 watts max</td>
</tr>
<tr>
<td>Weight</td>
<td>180 kg (400 lb)—including environmental enclosure</td>
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<tr>
<td>Operating Conditions</td>
<td>Temperature: -20° to 50° C (-4 to 122° F)</td>
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<tr>
<td></td>
<td>Lighting: Varied</td>
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<td></td>
<td>Meets IP67 requirements</td>
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<tr>
<td>Interface</td>
<td>Ethernet</td>
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Preliminary—All statements and claims are design goals, pending the result of testing

System Components

- IOM PassThru unit
- System controller
- Iris-matching algorithm
- Enrollment device

Applications

- Vehicle checkpoints
- Border crossings
- Critical infrastructures
- Transportation facilities
- Gated communities and campuses
- Military bases and government locations
- Parking facilities
- Drive-up banking

Capabilities

- Leverages the accuracy and convenience of iris recognition
- Operates outdoors in all lighting conditions
- Performs standoff identification of drivers inside vehicles of various heights
- Identifies up to 10 drivers per minute
- Requires minimal user interaction

- Captures iris image through eyeglasses, contact lenses, and most sunglasses
- Extends the use of identity authentication to the edge
- Interoperable with all leading iris-matching algorithms
- Integrates easily with most gate systems

SRI International

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Silicon Valley
(Headquarters)
333 Ravenswood Avenue
Menlo Park, CA 94025

Princeton, NJ
201 Washington Road
Princeton, NJ 08540
+1.609.734.2553
info@sri.com

www.sri.com/iom