Retail Loss-Prevention Solution

Organized retail crime costs the retail industry approximately $30 billion each year and is continuing to grow.*

The 3D LiDAR (ToF) Sensor with intelligence software helps minimize theft in retail environments by detecting and highlighting abnormal or suspicious behavior – such as loitering – which is automatically captured and displayed back via a monitor, mobile device or camera image.

*Source NRF

What is abnormal behavior?
- Loitering
- Long dwell time
- Length of time in one location
- Length of time while crouching

Benefits and Comparison data
1. Alert to mobile devices
2. Minimize shoplifting losses
3. Reduce internal fraud
4. Improve customer experience and service
5. Optimize product inventory management

How can this benefit you?
The 3D LiDAR (ToF) Sensor can minimize crime/loss within the retail environment by more than 50%.

The solution with the 3D LiDAR (ToF) Sensor can minimize crime/loss within the retail environment by more than 50%.
Product Specification

<table>
<thead>
<tr>
<th>Products</th>
<th>Spec</th>
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</thead>
<tbody>
<tr>
<td>HLS-LFOM5</td>
<td>Sensing Distance: 0.7 ~ 10 m, FOV: 60˚ x V: 76˚, Pixel Resolution: 640 x 480 (7 fps), Distance Resolution: X:6 mm, Y:8 mm @2 m, Lightning: Infrared IR LD, Size: 150 x 148 x 44 mm (Excluding projecting part), Weight: 500 g (Excluding cable), Interface: Ethernet 100Base-TX (Power is supplied by POE+), Illumination Condition: Under 10,000 lux (Indoor @ daytime), Temperature Condition: 0 ~ 45˚C, Humidity Condition: 0 ~ 95% (Non-condensing), Laser Class: Laser Class 1, Power Consumption: 15W, Color: White</td>
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<tr>
<td>HLS-LFOM3</td>
<td>Sensing Distance: 0.7 ~ 10 m, FOV: 76˚ x V: 60˚, Pixel Resolution: 640 x 480 (7 fps), Distance Resolution: X:6 mm, Y:8 mm @2 m, Lightning: Infrared IR LD, Size: 164 x 73 x 83.4 mm (Excluding projecting part), Weight: 800 g (Excluding cable), Interface: Ethernet 100Base-TX (Power is supplied by POE+), Illumination Condition: Under 10,000 lux (Indoor @ daytime), Temperature Condition: 0 ~ 45˚C, Humidity Condition: 0 ~ 95% (Non-condensing), Laser Class: Laser Class 1, Power Consumption: 15W, Color: Black</td>
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<tr>
<td>HLS-LFOM1</td>
<td>Sensing Distance: 0.7 ~ 10 m, FOV: 76˚ x V: 60˚, Pixel Resolution: 640 x 480 (7 fps), Distance Resolution: X:6 mm, Y:8 mm @2 m, Lightning: Infrared IR LD, Size: 138 x 69 x 69 mm (Excluding projecting part), Weight: 540 g (Excluding cable), Interface: Ethernet 100Base-TX (Power is supplied by POE+), Illumination Condition: Under 10,000 lux (Indoor @ daytime), Temperature Condition: 0 ~ 45˚C, Humidity Condition: 0 ~ 95% (Non-condensing), Laser Class: Laser Class 1, Power Consumption: 15W, Color: White/Black</td>
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Safety standards under preparation

Typical Solution Architecture

IP Camera → RGB video → Depth Data → 3D LiDAR (ToF) Sensor

PoE+ Switch

Alarms → Cloud

Suspicious Behavior Detect App

Human Detect App

Live Tracking Display

Loitering Long dwell time Crouching

For additional information, please contact:
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