VIDEO INSIGHT INTEGRATION GUIDE

Video Insight 7
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INTRODUCTION

The HALO Smart Sensor can be integrated into Panasonic’s Video Insight Video Management Software. This allows operators to visualize and record the real-time data from the HALO Smart Sensor, as though it were a typical IP Camera, and associate the device to defined Rules. As the HALO Smart Sensor transmits event notifications to Video Insight, the associated rules are triggered.

*Note: This integration was tested using Video Insight version 7.7.3.35 and HALO Firmware version 2.2.4*
HALO SMART SENSOR – MOTION MJPEG OUTPUT STREAM URL

To capture the Stream URL needed to connect Video Insight to HALO, simply navigate to the HALO Smart Sensor with a Web Browser and click on the **Image** button in the bottom navigation bar.
Scroll down the Image page to the Paths section.

<table>
<thead>
<tr>
<th>Paths</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dashboard MJPEG Stream</strong></td>
<td><strong>Dashboard Stand-Alone SVG Stream</strong></td>
</tr>
<tr>
<td>Dashboard Frame(Jpg)</td>
<td>Dashboard Frame(Svg)</td>
</tr>
<tr>
<td><strong>Graph MJPEG Stream</strong></td>
<td><strong>Graph Stand-Alone SVG Stream</strong></td>
</tr>
<tr>
<td>Graph Frame(Jpg)</td>
<td>Graph Frame(Svg)</td>
</tr>
</tbody>
</table>

Click the Dashboard or Graph MJPEG Stream links to identify the Stream URL for each of the HALO Smart Sensor visualizations. Highlight the URL in the pop-up window and copy the path.

**Dashboard**: http://ipaddress/api/gfx/dashboard.jpeg

**Graph**: http://ipaddress/api/gfx/stream.jpeg
HALO SMART SENSOR – MESSAGING

Click on the Messaging icon in the bottom navigation bar

1. Select TCP for Protocol.
2. Enter `halo.event.%EID%.%SOURCE%` in the Set String field and check the On radio button.
3. Enter the IP Address of the Video Insight Server in the Address field.
4. Specify 1234 for the Port.
5. Click Save.
**HALO SMART SENSOR – ACTIONS**

Click on the Actions tab of the HALO Smart Sensor interface.

## Actions

<table>
<thead>
<tr>
<th>Event Identifier</th>
<th>Email Set</th>
<th>Email Reset</th>
<th>Msg Set</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggression</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>AQI</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
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<tr>
<td>CO2</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Gunshot</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td>✔️</td>
<td>✔️</td>
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</tr>
<tr>
<td>Masking</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
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<tr>
<td>Tamper</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>THC</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Vape</td>
<td>✔️</td>
<td>✔️</td>
<td></td>
</tr>
</tbody>
</table>

Check the **Messaging Set** checkboxes for each of the **Event Identifiers**.
Click the **Save** button.
Login to the VI MonitorPlus client with Administrator rights to add the HALO Smart Sensor as a device.
Click on the Administration Tab, then select Servers and Setup and Configuration.
Select a **Server** from the Left Navigation Tree, and click the **Cameras** Tab.

Click the **Add Manually** button to add HALO Smart Sensor.
VI MONITOR PLUS – ADD NEW CAMERA

Add New Camera

Camera Information

Camera Name: HALO Smart Sensor
Manufacturer: IPVideo
Model: Halo Smart Sensor 2.0
IP Address: 10.1.7.191
User Name: admin
Password: ********

URL: http://10.1.7.191/api/gfw/stream.jpeg
Event Port: 1234

Add | Close
Enter a Camera Name for the HALO Smart Sensor that will easily identify its installation location.

Select “IPVideo” for the Manufacturer.

Select “HALO Smart Sensor 2.0” for the Model.

Enter the HALO device username in the Login field.

Enter the HALO device password in the Password field.

Paste the Stream URL that was previously copied from the HALO Smart Sensor interface in the Address field.

The Event Port should be 1234.

Click the Add button to add HALO Smart Sensor to the Video Insight Server.

A message will be posted indicating that the device has been successfully added.

Click no to proceed when prompted to add additional cameras.
VIMONITOR PLUS – CAMERA SETUP

Click on **Administration**, then select **Cameras** and **Configure Properties**.

![Camera Setup Screen]

This screen will show you the applied properties for the HALO Smart Sensor and allow editing of these defined settings.

Make sure the Capture VCA Events checkbox is checked. It is normally enabled by default.
Select a workspace, then drag the HALO Smart Sensor device from the left navigation tree into the Viewing panel of the VI MonitorPlus Client to visualize the live, real-time output from the HALO Smart Sensor.
VI MONITOR PLUS – RULES

Click on Administration -> Servers -> Rules.
To Add a New Rule, click on the + Icon.

Enter a Name for the Rule.

Click on the Add Event Button to Add an Event Trigger.
Select Analytics from the Event Type list on the left.

Select an Analytic Rule from the dropdown menu on the right and click OK.
Click on the Add Action button.
Select one of the many possible Actions to be performed from the left and complete the Rule definition.
HALO SMART SENSOR – EVENTS

Navigate to the Events page of the HALO Smart Sensor.
Click each of the Test buttons associated to each of the Event types to send Event Messages to Video Insight to test the programming.

## Events

<table>
<thead>
<tr>
<th>Event Identifier</th>
<th>Data Source</th>
<th>Threshold</th>
<th>Advanced</th>
<th>Test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aggression</td>
<td>Noise Level (db)</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQI</td>
<td>AQI</td>
<td>151</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO</td>
<td>Carbon Monoxide ppm</td>
<td>1500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO2</td>
<td>CO2 eq ppm</td>
<td>1500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gunshot</td>
<td>Gunshot</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Help</td>
<td>Keyword 1</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Masking</td>
<td>PM10 (10 μm particulates) μg/m³</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tamper</td>
<td>Move (mm/100)</td>
<td>1400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>THC</td>
<td>PM10 (10 μm particulates) μg/m³</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vape</td>
<td>PM10 (10 μm particulates) μg/m³</td>
<td>35</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
VI MONITOR PLUS – EVENT DISPLAY

When HALO Smart Sensor sends an Event Message to Video Insight and VI MonitorPlus, the dashboard will indicate the Event that has been triggered. Any associated Rule will also be triggered. For example, a Message Instruction can be utilized to notify connected users of a HALO Smart Sensor event.