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INTRODUCTION

The HALO Smart Sensor can be integrated into Ocularis Video Management Software using the MJPEG output from the HALO device and the Generic Text Trigger support of Ocularis. This allows operators to visualize and record the real time data from the HALO Smart Sensor, as though it were a typical IP Camera.

Note: This integration was tested using version Ocularis 5.8 with a HALO Smart Sensor running v 1.58 firmware.
HALO SMART SENSOR – Motion MJPEG Output Stream URL

To capture the Stream URL needed to connect Ocularis to HALO, simply navigate to the HALO Smart Sensor with a Web Browser and click on the Configure button.

Highlight the Stream URL that is displayed in the Configuration Pop-Up window with the mouse and cursor, then right click and select Copy.
HALO SMART SENSOR – Authentication

In order to connect HALO Smart Sensor to Ocularis, the device must be set to Basic HTTP Authentication.

Open HALO Smart Sensor in a web browser and click on the Device tab.

Scroll down to HTTP / API and click on the Authentication dropdown menu and select Basic Only.

**HTTP / API**

<table>
<thead>
<tr>
<th>Port</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Authentication</td>
<td>Basic Only</td>
</tr>
</tbody>
</table>
Click the **Save** button to save changes and re-boot the HALO Smart Sensor.

**HALO SMART SENSOR – Device Name**

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

**Network Configuration**

**Device Name**

Enter a **UNIQUE** name in the Device Name field. Click the **Save** button to save settings.

**HALO SMART SENSOR – Configure VMS Settings**

Login to the HALO Smart Sensor and click on the Notifications tab. Scroll down to VMS Settings.
1. Enter “halo.%EID%” for the Set String and Check the On radio button to enable (Do not include Quotations)
2. Enter “halo.reset” for the Set String and Check the On radio button to enable (Do not include Quotations)
3. Enter the IP Address of the Ocularis Server in the IP Address field
4. Enter 1234 in the Port field.
5. Click the Save button.

HALO SMART SENSOR – Actions

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

Check the Messaging Set checkboxes for each of the Event Identifiers.
Click the Save button to save settings.
OCULARIS RECORDER MANAGER – Add Device

Login to the Ocularis Recorder Manager with Administrator rights to add the HALO Smart Sensor as a device.
Click on the Create Camera button to add HALO Smart Sensor
In the **General** section of the Camera Configuration, enter

1. **Camera Name**
2. **Host (IP Address of HALO Smart Sensor)**
3. **HTTP Port = 80**
4. **Authentication = Yes**
5. **Username**
6. **Password**

Click **Save** to retain settings
In the Stream section of the Camera Configuration, enter

1. Motion JPEG for Video Stream
2. HTTP_Serverpush for Transmission Type
3. Enter “/api/gfx/stream.jpg” in the URL Field
4. Frame Rate (FPS) = 1

Click Save to retain settings
Click on **Server side functions** and select **Motion Detection** to visualize the connection to HALO Smart Sensor and confirm the connection settings have been entered correctly.
OCULARIS RECORDER MANAGER – Add Input for HALO Smart Sensor

In the right navigation tree, click on **Other Hardware**

Click on the **Create new object** icon
In the **General** section, check the **Activated** checkbox to activate the Input

Enter a name for the **Input** in the **Name** field

Enter the **HALO Smart Sensor IP Address** in the **Valid IP Address** field

Click the **Save** button to retain the settings.
In the **Input** section, check the **Activated** checkbox to activate the Input

1. Enter a name for the **Input** in the **Name** field (**Do not use special characters**)
2. Specify **TCP** for **Protocol**
3. Specify **1234** for the **Port**
4. Enter **50** for **Dead Time**
5. Specify **ASCII** from the **Type** drop down menu
6. Enter the **Text** (**ASCII trigger message that will be sent by HALO Smart Sensor**) for a specific action.

**NOTE**: A unique input will need to be created for each of the specific Event Types of HALO Smart Sensor, for example (halo.Vape, halo.VapeTHC, halo.VOC, halo.CO, etc)

Click the **Save** button to retain the settings.
OCULARIS RECORDER MANAGER – Add Alarm for HALO Smart Sensor

In the right navigation tree, click on Alarms

Click on the Create new object icon
In the **General** section, check the **Activated** checkbox to activate the Input.

Enter a name for the **Alarm** in the **Name** field.

Click the **Save** button to retain the settings.
In the **Start** section, click the **Edit** button to create the associate between the Alarm and the Input.

Click the **Save** button to retain the settings.
In the **Persons Involved** section, specify the users that shall be associated to the Alarm.

Check the Play Signal Tone checkbox and select When the Alarm is triggered.

Click the **Save** button to retain the settings.
In the **End** section, specify **Maximum Server Alarm Duration(s) to 60**.

Click the **Save** button to retain the settings.
OCULARIS ADMINISTRATOR – SERVERS/EVENTS/DISTRIBUTION GROUPS

Open the Ocularis Administrator to the Servers/Events tab.

Click on a Camera in the left navigation tree and drag it over the Halo Alarm to create the camera/alarm association. This will need to be done for each individual Halo Alarm that is programmed.
Click on the Distribution Groups tab.

Click in the left navigation tree and select a Distribution Group

Select the HALO Event(s) from the Available Events list and move to Enabled Events.
OCULARIS CLIENT – Monitor HALO Smart Sensor Live / Events

Launch the Ocularis Client software, and login.
Select a View that has the HALO Smart Sensor defined in it to monitor the Real time Activity of the Sensors.

When HALO Smart Sensor is triggered, the bar graph for the sensor will light up RED and an indicator that the defined threshold for that sensor has been exceeded.
When the HALO Smart Sensor is triggered, the Ocularis Client will indicate the event has been triggered in the top left corner of the interface. Click this event to proceed to the event interface.

A live window and a playback window for the device will be displayed, which enables simultaneous live monitoring and event review.

The Alarm will be listed in the Alarm List sorted by date/time

Any of the Actions defined for the Alarm will be triggered.