Sentry360 Pro Series Configuration Guide
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Pro Series Cameras

Changing Camera Settings:
On any tab with editable camera settings, click the Update Settings box to temporarily save settings. To write the changes permanently to the camera, click the System tab and click Save.
Pro Series Cameras

Info

- **Model**: camera’s model number
- **MAC**: camera’s MAC address
- **Hardware Version**: camera’s hardware version
- **Firmware Version**: camera’s current firmware version
- **URL**: camera’s network address
**Network**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP Address</td>
<td>192.168.1.2</td>
</tr>
<tr>
<td>Network Mask</td>
<td>255.255.255.0</td>
</tr>
<tr>
<td>Default GateWay</td>
<td>0.0.0.0</td>
</tr>
<tr>
<td>UDP Port</td>
<td>69</td>
</tr>
<tr>
<td>TCP Port</td>
<td>80</td>
</tr>
<tr>
<td>Use DHCP</td>
<td>(unchecked)</td>
</tr>
</tbody>
</table>

*Network settings with DHCP disabled.*

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</table>

*Network settings with DHCP enabled.*

- **IP Address**: camera’s IP address
- **Network Mask**: address of network mask
- **Default GateWay**: address of network gateway
- **UDP Port**: port for the TFTP protocol
- **TCP Port**: Port for the HTTP server
- **Use DHCP**: Enable / disable DHCP support. If enabled on a DHCP server, the server will
Pro Series Cameras

automatically assign an IP address to the camera. This will not allow the user to edit other Network settings.
Pro Series Cameras

AE/AWB

- **AE Enabled**: Enable / disable auto-exposure

- **Priority Mode**:
  - **Aperture**: Integration time priority mode. Exposure is regulated mainly by changing integration time. This generally provides lesser image noise, but at the risk of possible image smearing.
  - **Shutter**: Gain priority mode. Priority of the exposure regulation is given to change of the camera sensitivity.

- **Brightness**: Brightness of the image (Used as target for auto-exposure). [1-255]

- **IR Filter** (only available with DN models)
  - **Auto**: Camera automatically determines when IR filter is on or off
  - **Manual**: User determines thresholds
  - **On**: Camera will display in color
  - **Off**: Camera will display black and white (night mode)

- **Max Integration Time**: Maximum shutter speed in microseconds (µs). [100 to 1000000]

- **Flicker Avoidance**: 50 Hz or 60 Hz
• **AWB Enabled**: Enable / disable auto white balance

• **Mode**:
  - **Auto**: Automatic white balance
  - **Manual**: Manual white balance (uses RGB settings)
  - **Outdoor**: White balance for outdoor settings
  - **Indoor**: White balance for indoor settings

• **Red/Green, %**: Red to green ratio (for manual AWB)

• **Blue/Green, %**: Blue to green ratio (for manual AWB)
Pro Series Cameras

### Image

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaling</td>
<td>100</td>
</tr>
<tr>
<td>Denominator</td>
<td>1</td>
</tr>
<tr>
<td>Size</td>
<td>2560x1920</td>
</tr>
<tr>
<td>Offset Left</td>
<td>0</td>
</tr>
<tr>
<td>Offset Top</td>
<td>0</td>
</tr>
<tr>
<td>Quality</td>
<td></td>
</tr>
<tr>
<td>Sharpness</td>
<td></td>
</tr>
<tr>
<td>Saturation</td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td></td>
</tr>
</tbody>
</table>

- **Scaling**: Degree of horizontal and vertical scaling percentage. Size is reduced programmatically.
- **Denominator**: Size denominator used to scale vertical and horizontal output. Size is reduced at sensor.
- **Size**: Height and width of the image.
- **Offset Left**: Horizontal offset of the image
- **Offset Top**: Vertical offset of the image
- **Quality**: Compression quality of jpeg frames. (For MJPEG streaming)
- **Sharpness**: Measure of sharpness of the image.
- **Saturation**: Color saturation of the image.
- **Contrast**: Level of contrast of the image.
System

- **UserName**: Name for user to be added. Must be 8 characters or less.

- **Password**: Password for user to be added. Must be 8 characters or less.

- **Set User**: Create a new user with entered UserName and Password credentials

- **User Type**:
  - Regular User: Can only execute read commands.
  - Administrator: Can execute all read and write commands.

- **Save**: Writes camera settings to memory.

- **Restore Defaults**: Reset camera image settings to default. Will not reset network settings.
Motion Detection

- **MD Enabled**: Enable / disable motion detection

- **Threshold**: If amount of motion falls below this value, motion detection is disabled.

- **Sensitivity**: Relative sensitivity of motion detection. Larger values indicate larger sensitivity.
Pro Series Cameras

H264

- **Quality**: Quality of H264 image output.

- **Threshold**: Threshold value for the built-in motion detector for H264 codec. The motion detector cannot pass those parts of the frames in which there is no movement. If the value is 0, all parts of the frame will be transmitted. The higher the value, the less network traffic but higher probability of artifacts in the image.

- **Mode**: Determine the frequency of I-frame (reference frame) generation after P-frame (key frames)
  - **Auto**: Automatically determine I-frame generation
  - **Manual**: Uses GOP frames setting to determine I-frame generation

- **GOP frames**: Number of P-frames generated after I-frames (for Manual mode)