Overview
The Sentinel is a full featured, multi-megapixel H.264 all-weather camera. With support for up to 5 MP resolutions, this camera provides multiple, individually configured H.264 and simultaneous M-JPEG streams. Designed with the installer in mind, innovative features drastically reduce installation costs and time. The Sentinel provides the increased processing power needed to run analytics or VMS applications at the edge.

Wide Range of Models Available
Available in H.264 with support for HD720p, HD1080p, 3MP and 5MP resolutions, the Sentinel provides the highest quality megapixel images with the lowest bandwidth demands. Both ONVIF and PSIA compliant, the Sentinel works seamlessly with all leading NVR/VMS providers. A choice of models with varifocal lenses are available. Refer to the Models and Descriptions table.

Special Features
The remote back focus greatly reduces installation time using the One-Touch-Focus feature for sharp images and allowing fine focus adjustments from a remote computer, eliminating the need for manual focus adjustments at the camera. Ethernet terminal punch-down eliminates the need to terminate with an RJ45 connector. Built-in steel camera hangers allow the installer to work with both hands.

In addition, the wall, ceiling and parapet mounting options, rugged aluminum construction, and IP66 weather resilience allow the camera to be installed in almost any harsh environment. At less than 8W power consumption, the Sentinel can be fully operational using only PoE.

Product at a Glance
- Resolutions up to 5 MP
- H.264 Main Profile + MJPEG compression
- 1, 2, 3 MP WDR (100dB)
- IP66/NEMA4 outdoor enclosure
- Remote back-focus for sharp focusing
- True day/night movable IR filter
- Power-over-Ethernet (PoE); 12-24 VDC; 24 VAC
- ONVIF and PSIA compliant

Embedded Vicon Analytics
Free basic edge-based analytics seamlessly integrate into ViconNet VMS. Alerts are generated without need of analytics server.

<table>
<thead>
<tr>
<th>Intelligent Video Motion Detection</th>
<th>Camera Tampering Detection</th>
<th>Intrusion Detection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reduces the number of false alarms by intelligently analyzing motion in a scene to filter out false triggers caused, for example, by lighting changes and movement by animals or trees</td>
<td>Monitors video to detect camera failures or tampering, including lens blocking or change in angle of view, and generates an alert</td>
<td>Provides automated perimeter monitoring to secure a specific area for person or vehicle intrusion</td>
</tr>
</tbody>
</table>
### SENTINEL CAMERAS

#### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>IQ861WE-V6; IQ861WE-V17; IQ862WE-V6; IQ862WE-V17; IQ862WE-W2; IQ863WE-V6; IQ863WE-V17; IQ863WE-W2; IQ865NE-V6; IQ865NE-V17; IQ865NE-W2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Image Sensor:</strong></td>
<td>1/3&quot; CMOS 1/2.5&quot; CMOS</td>
</tr>
<tr>
<td><strong>Max Resolution:</strong></td>
<td>HD 720P - 1280 x 720  HD 1080P - 1920 x 1080  3.1 MP - 2048 x 1536  5.0 MP - 2560 x 1920</td>
</tr>
<tr>
<td><strong>Electronic Shutter Speed:</strong></td>
<td>1/20,000</td>
</tr>
<tr>
<td><strong>Day/Night Performance:</strong></td>
<td>True day/night (IR cut filter)</td>
</tr>
<tr>
<td><strong>Minimum Illumination:</strong></td>
<td>Color: 0.2 lux; B/W: &lt;0.05 lux; 0 lux with external IR source  Color: 0.3 lux; B/W: &lt;0.05 lux; 0 lux with external IR source</td>
</tr>
<tr>
<td><strong>IR Range (sensor):</strong></td>
<td>800 - 940 nm</td>
</tr>
<tr>
<td><strong>Lenses</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Focal Length:</strong></td>
<td>V6: 12-40 mm; V17: 3.3-10 mm; W2: 1.8-3 mm</td>
</tr>
<tr>
<td><strong>Max. Aperture:</strong></td>
<td>V6: f/1.8  V17: f/1.4; W2: f/1.4</td>
</tr>
<tr>
<td><strong>Iris:</strong></td>
<td>Manual</td>
</tr>
<tr>
<td><strong>Zoom/Focus Adjust:</strong></td>
<td>Varifocal</td>
</tr>
<tr>
<td><strong>Network Video Transmission</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Network:</strong></td>
<td>10Base-T - 100Base-TX, RJ-45</td>
</tr>
<tr>
<td><strong>Image Compression:</strong></td>
<td>H.264, M-JPEG</td>
</tr>
<tr>
<td><strong>Resolution:</strong></td>
<td>1280x720 (720P), 720x480 (480P), 352x240 (CIF)  1920x1080 (1080P), 1920x1080 (1080P), 1280x720 (720P), 720x480 (480P), 352x240 (CIF)  2048x1536 (3 MP), 2048x1536 (3 MP), 1920x1080 (1080P), 1280x720 (720P), 720x480 (480P), 352x240 (CIF)  2560x1920 (5 MP), 2560x1920 (5 MP), 1920x1080 (1080P), 1280x720 (720P), 720x480 (480P), 352x240 (CIF)</td>
</tr>
<tr>
<td><strong>Protocol:</strong></td>
<td>IPv4, IPv6*, TCP, HTTP, HTTPS, DHCP, UDP, RTP, RTSP, DNS, ARP, ICMP, NTP, UPnP, ZeroConf, UDP multicast, APIPA, CIFS, SNMP, SMTP, Telnet</td>
</tr>
<tr>
<td><strong>Max. Frame Rate:</strong></td>
<td>30 fps  20 fps  10 fps</td>
</tr>
<tr>
<td><strong>Streams:</strong></td>
<td>Triple streaming</td>
</tr>
<tr>
<td><strong>Users:</strong></td>
<td>Live viewing for up to 10 clients</td>
</tr>
<tr>
<td><strong>Web Browser:</strong></td>
<td>Internet Explorer®, Safari®, Firefox®, Google Chrome®</td>
</tr>
<tr>
<td><strong>Security:</strong></td>
<td>HTTPS encrypted configuration, SSL, multi-level password protection</td>
</tr>
<tr>
<td><strong>Apps and Utilities:</strong></td>
<td>Vicon analytics: Intelligent Motion Detection - analyzes motion in a scene to filter out false triggers, reducing the number of false alarms; Camera Tampering - monitors video to detect camera failures or tampering, including lens blocking or change in angle of view, and generates an alert; Intrusion Detection - provides automated perimeter monitoring to secure a specific area for person or vehicle intrusion</td>
</tr>
<tr>
<td><strong>Mechanical and Electrical</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Construction:</strong></td>
<td>Cast aluminum</td>
</tr>
<tr>
<td><strong>Camera Adjustment:</strong></td>
<td>Pan and tilt adjustment</td>
</tr>
<tr>
<td><strong>Mounting:</strong></td>
<td>Surface mount. Mounting accessories available for pendant/wall.</td>
</tr>
<tr>
<td><strong>Dimensions:</strong></td>
<td>Refer to Dimensional Drawing</td>
</tr>
<tr>
<td><strong>Weight:</strong></td>
<td>6.25 lb (2.84 kg)</td>
</tr>
</tbody>
</table>

*Specifications subject to change without notice.*

Dated: 3/2016

Vicon, iQeye and their logos are registered trademarks of Vicon Industries Inc.

Copyright © 2016 Vicon Industries Inc. All rights reserved.
SENTINEL CAMERAS

SPECIFICATIONS

Electrical

Input Power: Power over Ethernet (PoE, 802.3af Class 2); 24 VAC; 12 - 24 VDC

Power Consumption: <8.0 W, including heater

Controls and Connectors

Connectors: Power PoE/Network: RJ-45 CAT 5. Physical I/O: 1 input, 1 output

Environmental

Operating Conditions: Temp: -22 to 122° F (-30 to 50° C)

Approvals and Ratings: UL, cUL, FCC Class A, CE, RoHS 2; IP66, NEMA 4

Warranty: 3 years

Dimension Drawings

Models and Descriptions

<table>
<thead>
<tr>
<th>Model</th>
<th>Max. Resolution</th>
<th>Max. Frame Rate (@ max. resolution)</th>
<th>Min. Illumination (without IR)</th>
<th>Field-of-View</th>
</tr>
</thead>
<tbody>
<tr>
<td>IQ861WE-V6</td>
<td>HD 720P - 1280 x 720</td>
<td>30 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V6: 9° - 18°</td>
</tr>
<tr>
<td>IQ861WE-V17</td>
<td>HD 720P - 1280 x 720</td>
<td>30 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V17: 27° - 70°</td>
</tr>
<tr>
<td>IQ862WE-V6</td>
<td>HD 1080P - 1920 x 1080</td>
<td>30 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V6: 9° - 18°</td>
</tr>
<tr>
<td>IQ862WE-V17</td>
<td>HD 1080P - 1920 x 1080</td>
<td>30 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V17: 27° - 70°</td>
</tr>
<tr>
<td>IQ862WE-W2</td>
<td>HD 1080P - 1920 x 1080</td>
<td>30 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>W2: 76° - 102°</td>
</tr>
<tr>
<td>IQ863WE-V6</td>
<td>3.1 MP - 2048 x 1536</td>
<td>20 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V6: 10° - 24°</td>
</tr>
<tr>
<td>IQ863WE-V17</td>
<td>3.1 MP - 2048 x 1536</td>
<td>20 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>V17: 28° - 75°</td>
</tr>
<tr>
<td>IQ863WE-W2</td>
<td>3.1 MP - 2048 x 1536</td>
<td>20 fps</td>
<td>Color: 0.2 lux; BW: &lt;0.05 lux</td>
<td>W2: 78° - 106°</td>
</tr>
<tr>
<td>IQ865NE-V6</td>
<td>5.0 MP - 2560 x 1920</td>
<td>10 fps</td>
<td>Color: 0.3 lux; BW: &lt;0.05 lux</td>
<td>V6: 9° - 28°</td>
</tr>
<tr>
<td>IQ865NE-V17</td>
<td>5.0 MP - 2560 x 1920</td>
<td>10 fps</td>
<td>Color: 0.3 lux; BW: &lt;0.05 lux</td>
<td>V17: 36° - 93°</td>
</tr>
<tr>
<td>IQ865NE-W2</td>
<td>5.0 MP - 2560 x 1920</td>
<td>10 fps</td>
<td>Color: 0.3 lux; BW: &lt;0.05 lux</td>
<td>W2: 87° - 115°</td>
</tr>
</tbody>
</table>

N=Day/Night; I=Indoor; W=WDR; V=Vandal-Resistant; E=Exterior (Outdoor)