Hikvision Darkfighter series VC236I-AELW smart PTZ dome cameras are able to capture high quality colored images in dim light environment with its cutting-edge low illumination level down to 0.002Lux (color). Embedded with 1/1.9” progressive scan CMOS chip makes true WDR (120dB) and 2MP real-time resolution possible. With the 36X optical zoom Day/Night lens, the camera offers more details over expansive areas. The Darkfighter PTZ camera also features a wide range of smart functions, including face detection, intrusion detection, line crossing detection and audio exception, benefitting users with great improvement on security efficiency, more importantly, with key events / objects being recorded for further forensic needs. These features, combined with smart tracking, which enables the camera to detect any progressively moving object and follow it within the camera’s area of coverage without fault. Smart Defog and EIS (Electronic Image Stabilizer) are further supported to improve image quality in challenging conditions.

Key Features

- 1/1.9” HD CMOS sensor
- Optical Defog
- 2MP(1920*1080) Full HD
- 36X Optical Zoom
- Ultra-low illumination
- 120dB True WDR
- Smart Tracking
- Smart Detection
- Electronic Image Stabilizer(EIS)
- 200m IR distance
- Wiper
- Hi-PoE / 24VAC power supply

www.hikvision.com
VC236I-AELW
2MP Ultra-low Light Smart PTZ

Function Description

Basic function:
• High performance CMOS, up to 1920x1080 resolution, configuration flexibility in its resolution
• ±0.1° Preset Accuracy
• ONVIF(Open Network Video Interface Forum), CGI(Common Gateway Interface), PSIA(Physical Security Interoperability Alliance), to ensure greater interoperability between different platforms and compatibility
• 3D intelligent positioning function
• 3D DNR(Digital Noise Reduction)
• IP66 standard
• 7 alarm inputs and 2 alarm outputs
• Scheduled PTZ movement
• Built for monitoring 7x24x365

Smart function:
• Smart tracking modes: Manual/ Panorama/ Intrusion trigger/ Line crossing trigger/ Region entrance trigger/ Region exiting trigger, support smart tracking when patrol between multiple scenarios
• Smart detection: support Face detection, Intrusion detection, Line crossing detection, Audio exception detection, Region entrance detection, Region exiting detection
• Smart recording: support edge recording, support dual-VCA for smart search in smart NVR
• Smart image processing: support optical defog, HLC, smart IR, EIS
• Smart codec: low bit rate, ROI

Camera function:
• Auto iris, auto focus, auto white balance, backlight compensation and auto day & night switch
• Min. Illumination: 0.002Lux @(F1.5, AGC ON)(Color), 0.0002Lux @(F1.5, AGC ON)(B/W)
• Support privacy mask with multiple colors and mosaics on polygonal areas

PTZ function:
• From 0° to 360° endless pan range and from -10° to 190° tilt range
• 240° /s Pan Preset Speed and 200° /s Tilt Preset Speed
• 0.1° ~ 300° /s Manual Pan Speed and 0.1° ~ 120° /s Manual Tilt Speed
• 300 presets programmable; preset image freezing capability
• 8 patrols, up to 32 presets per patrol
• 4 patterns, with the recording time not less than 10 minutes per pattern
• Proportional zoom function
• Park action: auto call up of PTZ movement, after a defined time of inactivity
• Power-off memory: restore PTZ & Lens status after reboot

Network function:
• H.264+/Advanced H.264/H.264/MJPEG/MPEG4 video compression
• H.264 encoding with Baseline/Main/High profile
• ROI(Region of Interest) encoding(support 24 areas with adjustable levels)
• Built-in Web server
• Onboard storage, up to 128GB
• Support up to 8 NAS storage; Edge recording(transmit the videos from SD card to the NAS after network resumed)
• HTTPS encryption and IEEE 802.1X port-based network access control
• Support 3 Simultaneous Video streams
• Multiple network protocols supported: IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Multicasting
• 1 audio input and 1 audio output, Two-way audio

IR function:
• 0 Lux minimum illumination
• Up to 200m IR distance
• IR light MTBF reaching up to 30,000 hours
**VC236I-AELW**

2MP Ultra-low Light Smart PTZ

**Model**

**VC236I-AELW**

<table>
<thead>
<tr>
<th>Camera Module</th>
<th>VC236I-AELW</th>
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<tbody>
<tr>
<td>Image Sensor</td>
<td>1/1.9” Progressive Scan CMOS</td>
</tr>
<tr>
<td>Min. Illumination</td>
<td>F1.5, 50IRE, AGC On: Color: 0.002 lux, B/W : 0.0002 lux, 0 lux with IR</td>
</tr>
<tr>
<td>Max. Image Resolution</td>
<td>1920×1080</td>
</tr>
<tr>
<td>Focal Length</td>
<td>5.7-205.2mm, 36x optical zoom</td>
</tr>
<tr>
<td>Digital Zoom</td>
<td>16X</td>
</tr>
<tr>
<td>Zoom Speed</td>
<td>Approx.3.3s(Optical Wide-Tele)</td>
</tr>
<tr>
<td>Angle of View</td>
<td>58.7-2.0 degree (Wide-Tele)</td>
</tr>
<tr>
<td>Min. Working Distance</td>
<td>10-1500mm(Wide-Tele)</td>
</tr>
<tr>
<td>Aperture Range</td>
<td>F1.5~F3.4</td>
</tr>
<tr>
<td>Focus Mode</td>
<td>Auto / Semiautomatic / Manual</td>
</tr>
<tr>
<td>WDR</td>
<td>120dB</td>
</tr>
<tr>
<td>S / N Ratio</td>
<td>≥ 55dB</td>
</tr>
<tr>
<td>Shutter Time</td>
<td>50Hz: 1/1/30,000s; 60Hz: 1/1/30,000s</td>
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<tr>
<td>AGC</td>
<td>Auto / Manual</td>
</tr>
<tr>
<td>White Balance</td>
<td>Auto / Manual /ATW/Indoor/Outdoor/Daylight lamp/Sodium lamp</td>
</tr>
<tr>
<td>Day &amp; Night</td>
<td>IR Cut Filter(ICR)</td>
</tr>
<tr>
<td>Privacy Mask</td>
<td>24 privacy masks programmable; optional multiple colors and mosaics</td>
</tr>
<tr>
<td>Optical Defog</td>
<td>Support</td>
</tr>
<tr>
<td>Enhancement</td>
<td>3D DNR, EIS, HLC/BLC, SVC</td>
</tr>
</tbody>
</table>

**Pan and Tilt**

- **Range**: Pan: from 0° to 360° endless; Tilt: from -10° to 190°
- **Speed**: Pan Manual Speed: 0.1°~160°/s, Pan Preset Speed: 240°/s
- **Number of Preset**: 300
- **Preset Range**: 8 patrols, up to 32 presets per patrol
- **Pattern**: 4 patterns, with the recording time not less than 10 minutes per pattern
- **Park Action**: Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan
- **Scheduled Task**: Preset / Patrol / Pattern / Auto scan / Tilt scan / Random scan / Frame scan / Panorama scan/Dome reboot/Dome adjust/Aux output

**Smart Features**

- **Smart tracking**: Manual/ Panorama/ Intrusion trigger/ Line crossing trigger/ Region entrance trigger/ Region exiting trigger
- **Smart detection**: Face detection, Intrusion detection, Line crossing detection, Audio exception detection, Region entrance detection, Region exiting detection
- **ROI encoding**: Support 24 areas with adjustable levels

**Infrared**

- **IR Distance**: Up to 200m
- **IR Intensity**: Automatically adjusted, depending on the zoom ratio

**Alarm**

- **Alarm I/O**: 7/2
- **Alarm Trigger**: Face detection, Intrusion detection, Line crossing detection, Region entrance, Region exiting. Audio exception detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
- **Alarm Action**: Preset, Patrol, Pattern, Micro SD/SDHC card recording, Relay output, Notification on Client, Send Email, Upload to FTP, Trigger Channel

**Input/Output**

- **Monitor Output**: 1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC
- **Audio Input**: 1 Mic in/Line in interface, line input: 2-24V[p-p]; output impedance: 1KΩ, ±10%
- **Audio Output**: 1 Audio output interface, line level, impedance: 600Ω

**Network**

- **Ethernet**: 10Base-T / 100Base-TX, RJ45 connector
- **Main Stream**: 50Hz: 25fps(1920×1080, 1280×960, 1280×720); 60Hz: 30fps(1920×1080, 1280×960, 1280×720)
- **Sub Stream**: 50Hz: 25fps(704×576, 352×288, 176×144); 60Hz: 30fps(704×480, 352×240, 176×120)
- **Third Stream**: 50Hz: 25fps(1920×1080, 1280×960, 1280×720, 704×576, 352×288, 176×144)
- **Image Compression**: H.264+/Advanced H.264/H.264/MJPEG/MPEG4, H.264 encoding with Baseline/ Main/High profile
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Audio Compression
G.711ulaw/G.711alaw/G.726/MP2L2/G.722/PCM

Protocols
IPv4/IPv6, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Multicasting

Simultaneous Live View
Up to 20 users

Mini SD Memory Card
Support up to 128GB Micro SD/SDHC/SDXC card. Support edge recording

User/Host Level
Up to 32 users, 3 Levels: Administrator, Operator and User

Security Measures
User authentication (ID and PW); Watermark; Host authentication (MAC address); IP address filtering

System Integration
Application programming
Open-ended API, support ONVIF, PSIA, CGI and Genetec

Web Browser
IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+, support multi-language

RS-485 Protocols
HIKVISON, Pelco-P, Pelco-D, self-adaptive

Power
High-PoE & 24 VAC, Max. 60W

Working Temperature
-40°C ~ 65°C (-40°F ~ 149°F)

Humidity
90% or less

Protection Level
IP66, IK10, TVS 6,000V lightning protection, surge protection and voltage transient protection

Certification
FCC, CE, UL, RoHS, IEC/EN 61000, IEC/EN 55022, IEC/EN 55024, IEC/EN 60950-1

Dimensions
Φ266.6(mm)×365.2(mm)

Weight (approx.)
8kg (approx.)

Mount Option
Long-arm wall mount: DS-16022I; Corner mount: DS-16022J-corner;
Pole Mount: DS-16022I-pole; Power box mount: DS-16022J-box; Swan-neck mount: DS-1619ZJ

Accessories
- DS-1602J Wall Mount
- DS-16022J-Conner Mount
- DS-16022J-Pole Mount
- DS-16022J-Box Mount
- DS-1663ZJ Ceiling mount
- DS-1661ZJ Pendant mount
- DS-16622J Pendant mount
- DS-1619ZJ Swan-neck Mount
- DS-1100KI Network Keyboard
- DS-1005KI USB Joy-stick