ONVIF

Product at a Glance

▸ 2 MP resolution

▸ Starlight low-light imaging

▸ H.265/H.264

▸ Advanced analytics

▸ True WDR (120 dB); day/night camera with a built-in varifocal autoiris lens

▸ 30X optical zoom; 10X digital zoom

▸ PoE++; 24 VAC; 48 VDC

▸ Triple streaming video

▸ Two-way audio; two alarm inputs/alarm outputs

▸ Heater/blower system for temperature control

▸ IP66 and IK10 (housing) rated

▸ Supports local recording to SDHC/SDXC card

▸ ONVIF (Profile S/G/Q/T) interface provides inter-operability with open platform solutions

▸ NDAA/GSA/TAA compliant

Overview

Vicon's Roughneck V2002D-PTZ Network Dome Camera includes a 1080P high-resolution camera/lens combination that provides video transmission over a network.

The camera provides triple streaming video and supports H.265/H.264 compresstion technology, drastically reducing file sizes and conserving valuable network bandwidth. Users can receive multiple streams simultaneoulsy in different resolutions, frame rates and image qualities for viewing on different platforms. An SD memory slot is provided for local recording with removable storage.

In order to adapt to constantly changing outdoor lighting conditions, the V2002D-PTZ features an autoiris lens that maintains proper light levels to provide the best video quality under diverse and changing lighting conditions. The true day/night camera also includes a removable IR cut filter for superior image quality around the clock. Starlight low-light imaging provides clear images and color details. True Wide Dynamic Range (WDR) image processing further improves video exposure quality in scenes with high contrast between bright and dark areas. Smart IR adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object and built-in Adaptive IR adjusts the IR output dynamically to prevent oversaturation in the scene as the light changes. The PTZ includes a heater/blower; the blower is always on and the heater turns on when temperatures go lower than 59° F (15° C).

The V2002D-PTZ is designed for easy installation. Several mounting options are available, including wall and ceiling; refer to the Ordering Information table. The camera can be powered with PoE++, 24 VAC or 48 VDC.

For protection against the elements, the camera dome is IP66 rated with a vandal-proof casing to withstand rain, dust, and vandalism; the housing is also IK10 rated (lens cover is IK07) for impact protection. The camera meets the latest regulations required to be NDAA, GSA schedule and TAA approved.

SPECIFICATIONS

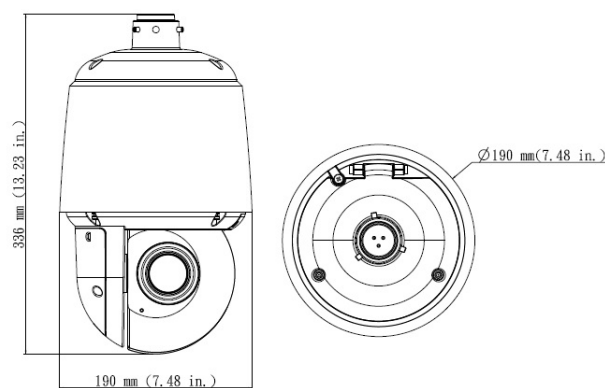| Model	V2002D-PTZ
Image Sensor:	1/2.8 inch Sony
Max Resolution:	2MP (1080p)
Image Settings:	Digital image effects: defog, flip and mirror. Configurable brightness, contrast, saturation, hue, sharpness. White balance. Backlight Compensation (BLC). HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3 DNR). Motion detection (4 programmable zones). Privacy masking (8 masks). Dynamic ROI. Event notification.
Intelligent Video Analytics:	5 profile/presets: Motion, Tampering/Defocus, Intrusion, Loitering, Line Cross/Counting, Object Left/Removed, Area Counting, Wrong Direction. Museum Search.
Electronic Shutter Speed:	1/30 ~ 1/10,000 sec
Day/Night Performance:	True day/night (IR cut filter)
Wide Dynamic Range (WDR):	True WDR (120 dB)
Minimum Illumination:	Color: 0.007 lux; B/W: 0.002 lux
IR Distance:	Adaptive IR; Smart IR (Automatic): 492 ft (150 m)
Lenses	
Focal Length:	4.5 - 135 mm (30X optical zoom); digital 10X
Max. Aperture:	f/1.6 - f/4.4
Iris:	Autoiris
Zoom/Focus Adjust:	Motorized focus and zoom
Field of View:	5° - 60° (H); 3° - 38° (V)
Network Video Transmission	
Network:	10Base-T, 100Base-TX, RJ-45
Image Compression:	H.265/H.264 and M-JPEG
Resolution:	1920×1080 (1080P), 1280×960/720, 800×600, 640×480, 640×360, 320×240
Protocol:	ARP, DHCP, DNS, FTP, HTTP, HTTPS, HLS, ICMP, IGMP, IPv4/6, LDAP, NTP, RTSP/RTCP/RTP, RTMP, QoS, SMTP, SNMP v1/2c/3, TCP, TLS/TTLS, UDP, UPnP, 802.1X, UPnP, Bonjour, DDNS, PPPoE; ONVIF S/G/Q/T
Frame Rate:	Max. 30 fps (25 fps, PAL)
Streams:	Triple streaming. Single: 2 MP@60fps; Dual: 2 MP@60fps + 2 MP@30fps; Triple: 2 MP@60fps + 2 MP@30fps + 720@30 fps
Users:	Live viewing for up to 10 clients
Web Browser:	Internet Explorer®; Safari®, Firefox®, Google Chrome®, Microsoft® Edge
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security
Local Recording:	Micro-SD slot provided; customer supplied SDHC/SDXC card
Mechanical	
Construction:	Aluminum base; polycarbonate dome bubble
Pan Range:	360° continuous pan
Pan Speed:	300°/second maximum
Tilt Range:	95° (-15° to 90°)
Tilt Speed:	160°/second maximum
Presets:	128
Tours/Pattern:	4/4
Alarm:	2 alarm inputs; 2 alarm output
Audio Capability:	Two-way audio; G.711 compression
Mounting:	Mounting accessories available. Refer to Ordering Information.
Dimensions:	7.5 in. (190 mm) (Diam) x 13.2 in. (336 mm) (H); refer to dimensional diagram
Weight:	11.5 lb (5.2 kg)

SPECIFICATIONS

Electrical	
Input Power:	PoE++ (IEEE 802.3bt, Class 7); 24 VAC (+20%/-10%); 48 VDC (±10%)
Current (IR on):	2.5 A @24 VAC; 1.25 A @48 VDC
Power Consumption:	Total Power: 48 W. PTZ Camera: 11 W; Pan/Tilt Function: 12 W; IR: 19 W; Heater: 5.5 W; Blower: 0.9 W. Note that blower is always on; heater turns on when temperature is lower than 59° F (15° C).

Controls and Connectors	
Indicators and Connectors:	Power: 24 VAC/48 VDC: terminal block. Network/PoE: RJ-45 CAT 5. Audio In/Out and Alarm In/Out: screw terminal. SDHC/SDXC Card Slot. Reset button. Default button. Indicators: green LED flashes for booting and software updating.

Environmental	
Operating Conditions:	Temp: -40° to 140° F (-40° to 60° C) Humidity: up to 90%, relative, non-condensing Limitations in certain weather conditions, including blizzard conditions and freezing rain with high winds.
Approvals:	UL; FCC Class A; CE; IP66; IK10 (housing)/IK07 (lens cover); RoHS
Country of Origin:	Taiwan
Warranty:	5 years

Dimensional Drawing [mm (in.)]

Ordering Information	
Model Number	**Description**
V2002D-PTZ	2 MP PTZ dome camera
Mounting Accessories	
SVFT-UWM-1/ SVFT-WM-1	Wall Mounts; for installation on a wall
SVFT-UCM-1	Ceiling Mount; for mounting to a ceiling
SVFT-UPM-2	Parapet Mount; for parapet mounting
V-24CMB-4	Corner Mount; for corner mounting a wall mount
V-20B-A-4	Pole Mount Adapter; for pole mounting a wall mount
VPOE-INJ-60BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 60 W output; NDAA/TAA compliant
VPOE-INJ-90BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 90 W output; NDAA compliant

VPOE-INJ-60BT

VPOE-INJ-90BT

SVFT-UWM-1   SVFT-WM-1   SVFT-UCM-1   SVFT-UPM-2   V-24CMB-4   V-20B-A-4

Explorer is a registered trademark of Microsoft Corporation.
Chrome is a registered trademark of Google LLC.
Firefox is a registerd trademark of Mozilla Corp.
Safari is a registerd trademark of Apple Inc.

VICON
vicon-security.com