DATA/ SPEC SHEET



V920D SERIES NETWORK ROUGHNECK CAMERA DOME





Vicon's Roughneck® V920D Series of HD IP Camera Domes is designed for demanding security installations. The megapixel camera series offers a number of fixed network camera versions that deliver crisp clear images to fit any installation need. Each version type [1080p, 720p and SD (standard resolution, D1)] is offered with a motorized or manual varifocal autoiris lens. Models with IR illuminators are available.

The V920D Series provides dual/triple-streaming video and supports H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. Users can receive multiple streams simultaneously in different resolutions, frame rates and image qualities for viewing on different platforms. MPEG-4 and M-JPEG compression is also provided.

The camera dome is designed for easy installation. Power over Ethernet (IEEE 802.3af) eliminates the need for power cables, providing a cost-effective method of installation. The camera also accepts 12 VDC and







- 1080p, 720p and SD resolution models
- True day/night camera with a built-in varifocal autoiris lens; models available with motorized lens and IR illuminators
- H.264 high-profile, MPEG-4 and M-JPEG compression
- ONVIF interface provides interoperability with open platform solutions
- 0.01 lux low light capabilities @ 50 IRE
- Power-over-Ethernet (IEEE 802.3af), 24 VAC or 12 VDC
- Dual/triple streaming video
- Two-way audio
- SD card slot for on-camera storage
- Rugged construction for harsh indoor or outdoor environments, IP66 rated; heater provides all-weather protection
- IK10 rated for impact protection
- Surface mounting on wall or ceiling; pendant and in-ceiling mounting options

24 VAC. The V920D can be mounted on a wall, ceiling or standard 4 x 4 electrical box. With an adapter, it can also be pendant mounted on a wall mount or in-ceiling. The camera position is adjustable to any view required. Additionally, a composite output is provided for installation using a spot monitor (NTSC/PAL selectable).

In order to adapt to constantly changing outdoor lighting conditions, the V920D features an autoiris lens to protect from damage induced by direct sunlight. The true day/night camera also includes a removable IR cut filter for superior image quality around the clock. For protection against the elements, the camera dome is IP66 rated with a vandal-proof casing to withstand rain, dust, and vandalism; it is secured by tamperproof screws. The heater further enhances the dome's performance and reliability in extremely weather conditions. The camera dome provides 3-axis adjustment for any angle of view.

SPECIFICATIONS

Model	V920D-N39-IP/ V920D-N39IR-IP/ V920D-N39M-IP/ V920D-N39MIR-IP	V921D-N39-IP/ V921D-N39IR-IP/ V921D-N39M-IP/ V921D-N39MIR-IP	V922D-N39-IP/ V922D-N39IR-IP/ V922D-N39M-IP/ V922D-N39MIR-IP	
Image Sensor:	1/2.8-inch progressive scan RGB CMOS			
Max Resolution:	SD (D1)	720p	1080p	
Image Settings:	Dynamic adjustable bit rate. Diigital image effects: horizontal and vertical flip. Configurable brightness, contrast, saturation hue, sharpness. White balance. Digital zoom. Gain control. Electronic shutter speed. Day/night mode. BLC (Backlight Compensation). Dynamic Noise Reduction (2D). Motion detection. Sense-Up. Privacy masking. Event notification.			
Electronic Shutter Speed:		1/4 ~ 1/20,000		
Digital Zoom:		1 ~ 10X (client software)		
Day/Night Performance:		True day/night (IR cut filter)		
Minimum Illumination:	Color: 0.08 fc (0.8 lux); B/W: 0.02 fc (0.2 lux); DSS: 0.001 f/c (0.01 lux) IR Color: 0.02 fc (0.2 lux) IR BW: 0.0 fc/lux, IR On @f/1.2, 50 IRE			
IR Distance (IR models only):	65 ft (20 m) (with 24 IR LEDs)			
Lenses				
Focal Length:	3-9 mm (3X zoom)			
Max. Aperture:		f/1.2		
lris:		Autoiris		
Zoom/Focus Adjust:	Screw lever ac	Screw lever adjustable (manual units) or motorized focus and zoom		
Horizontal Field of View:		3-9 mm: 93° - 31.7°		
Network Video Transmi	ission			
Network:		10Base-T, 100Base-TX, RJ-45		
Image Compression:		H.264; MPEG-4; M-JPEG		
Resolution:	704x480/576 (D1), 352x240/288 (CIF), 640x480 (VGA), 320x240 (QVGA)	1280x720 (720P), 704x480/576 (D1), 352x240/288 (CIF), 640x480 (VGA), 320x240 (QVGA)	1920x1080 (1080P), 1280x720 (720P), 704x480/576 (D1), 352x240/288 (CIF), 640x480 (VGA 320x240 (QVGA)	
Protocol:	IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTS	IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, SMTP, DHCP, NTP, FTP, DDNS, UDP, SNMP, uPnP, ARP, QoS, Zeroconf, Bonjour, Manual		
Frame Rate:	2.5 ~ 30 fps (2.1 ~ 25 fps, PAL)	2.5 ~ 30 fps (2.1 ~ 25 fps, PAL). Refer to Frame Rate and Resolution Performance sheet for details.		
Streams:		Dual or Triple streaming		
Users:		Live viewing for up to 10 clients		
Web Browser:	Internet Explo	Internet Explorer®; Safari®, Firefox®, Google Chrome®, Opera®		
Security:	IP address filtering, H	IP address filtering, HTTPS encrypted data transmission, SSL, password protection		
Mechanical and Electi	ical			
Construction:	Die-cast aluminum bo	ase; polycarbonate plastic clear dom	e; tamperproof screws	
Camera Angle of Adjustment:	3-axis adjustment,	pan, tilt and roll (azimuth): 355° pan;	70° tilt; 355° rotation	
Mounting:	Surface mount. Mou	nting accessories available for pendo	ant/wall and in-ceiling.	
Dimensions:	6.06 in. (154 mm) (Dia	ım) x 5.0 in. (127.4 mm) (H), 4.3 in. (109	9.97 mm) (Dome Diam)	
Weight:		2.5 lb (1.1 kg)		
Input Power:	11	12 VDC, 24 VAC, PoE IEEE 802.3af Class 0.		
Current (No IR/IR):		12 VDC: 250/470 mA; 24 VAC: 300/520 mA; PoE: 100/130 mA. Heater on: 12 VDC: 600/900 mA; 24 VAC: 700/900 mA; PoE: 100/250 mA.		
Power Consumption	12 VDC: 3/5.4 W; 24 VAC: 4/6.5 W; PoE: 3.8/6.4 W.			

(No IR/IR): Storage: Heater on: 12 VDC: 7/10 W; 24 VAC: 8.9/11.8 W; PoE: 8.7/11.5 W.

Slot for Micro SD card on camera (card not supplied)

Controls and Connectors

External Controls:	Focus, Zoom: control levers on non-motorized lens versions	
Connectors:	Power: 12 VDC/24 VAC: screw terminal; PoE/Network: RJ-45 CAT 5. Alarm In/Out: screw terminal. Audio In and Out: jack (Audio Out requires external amplifier). Local Storage: Micro SD card slot. Composite output provided for installation (NTSC/PAL selectable).	

Environmental		
Operating Conditions:	Temp: -40 to 122° F (-40 to 50° C) with heater; -4 to 122° F (-20 to 50° C) without heater Humidity: up to 90%, non-condensing Heater: 41°F (5°C) (ON)/59°F (15°C) (OFF); tolerance: ±5°C	
Approvals:	UL, FCC Class A, CE, IP66, IK10	
Warranty:	3 years	

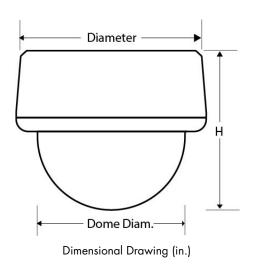
Resolution	Lens	Model Number
	3 - 9 mm mm autoiris varifocal lens	V920D-N39-IP
SD resolution (0.3 MP)	3 - 9 mm mm autoiris varifocal lens; IR illuminators	V920D-N39IR-IP
	3 - 9 mm mm motorized zoom and focus	V920D-N39M-IP
	3 - 9 mm mm motorized zoom and focus; IR illuminators	V920D-N39MIR-IP
	3 - 9 mm autoiris varifocal lens	V921D-N39-IP
720p resolution (1 MP)	3 - 9 mm autoiris varifocal lens; IR illuminators	V921D-N39IR-IP
	3 - 9 mm motorized zoom and focus	V921D-N39M-IP
	3 - 9 mm motorized zoom and focus; IR illuminators	V921D-N39MIR-IP
	3- 9 mm autoiris varifocal lens	V922D-N39-IP
1080p resolution (2 MP)	3 - 9 mm autoiris varifocal lens; IR illuminators	V922D-N39IR-IP
	3 - 9 mm motorized zoom and focus	V922D-N39M-IP
	3 - 9 mm motorized zoom and focus; IR illuminators	V922D-N39MIR-IP

Model Descriptions

Model Number	Description
V920-PH	Pendant housing used to convert V920D to pendant mounting; it can then be used with a variety of wall mounts
V920D-ICD	In-ceiling mounting kit for dropped ceiling
V920D-ICH	In-ceiling mounting kit for hard ceiling
V920-PLATE	Adapter plate to allow the V920D to be mounted on a 4x4 electrical box
Surge Protectors	Refer to datasheet

Mounting Accessories

Model Number	Description
V920D-OSD	OSD controller; for making changes from the OSD on the V920D series camera domes
V920D-AUDIO	Audio jack cable assembly; used for audio in (mic)/audio out (speaker) on the V920D camera series



Cable Adapters