

CAMERA GUIDE

# Deter Crime, Collect Evidence, Gain Peace-of-Mind

Vicon's award-winning portfolio of high-quality cameras





Click or scan to see  
the award-winning  
Multi-Sensor in action



# Reliable, Clear Video No Matter Your Application

We don't have to convince you about the importance of choosing the right cameras to protect your facility. Environmental and climate conditions, mounting requirements, lighting conditions, application and use cases, privacy considerations...these are just a few of the factors you'll need to consider when picking the right camera for the job. The good news is, Vicon has a camera for that. Over the years we've worked extensively with our customers to understand (and deliver!) exactly what they need in a security camera, no matter their application.

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ROUGHNECK CAMERAS

# The Roughneck Advantage: NDAA-Compliant and Priced to Compete

Globally, businesses and manufacturers are scrambling to find high-quality cameras to meet strict NDAA regulations. That's why we developed our Roughneck line. These high-performance, NDAA-compliant cameras are the perfect fit for installations that require high-quality, affordable cameras that are not on the banned list.

# The Roughneck AI Series

## With AI-based analytics onboard

AI-based analytics allow our cameras to distinguish people and vehicles from other objects in a scene. This is referred to as “object classification,” and the camera’s ability to classify those objects (people and vehicles) enables object-based recording and searching. This means Valerus records only when the camera detects the selected type of object in the scene.



Filter out non-relevant video for faster incident resolution



Diminish nuisance motion alarms caused by shadows, swaying trees, etc.



Reduce storage requirements by limiting recording to just object-based motion



Respond to genuine threats quicker, and with fewer resources



Click or scan to see AI in action.





When you're considering a Vicon camera, rest assured...if it's labeled "Roughneck," it's not only NDAA-compliant, it's equipped with a multitude of impressive features.



Roughneck	Roughneck AI
2 MP and 5 MP	2 MP, 5 MP, 8 MP, 12 MP, 20 MP and 32 MP
IP67 and IK08/IK10	IP67 and IK10
H.265 Smart Encoding	H.265 Smart Encoding
Smart IR	Smart and Adaptive IR
Standard Analytics	AI-Based Analytics with Object Classification
	Starlight Low-Light Color Images
	-40° F / -40° C Operating Temperature



# IP Fixed Domes



AWARD-WINNING

## ROUGHNECK AI MULTI-SENSOR

### KEY FEATURES

- Four 5 MP or 8 MP sensors, for a total of 20 MP or 32 MP
- NDAA-compliant
- Preconfigured 180°, 270°, and 360° views (or setup customized views)
- Remotely adjust all four sensors in minutes
- H.265/H.264 and M-JPEG compression
- Min. Color Illumination: up to 0.03 lux (20 MP); 0.02 lux (32 MP)
- Temp: -40° to 131° F (-40° to 55° C)
- True WDR
- Motorized zoom and focus lens
- Smart/Adaptive IR illumination: up to 131 ft (40 m)
- Starlight low-light imaging
- Museum Search
- Smart Encoding
- Advanced AI-Based Analytics
- Audio and Alarm input/output
- Powered by PoE++; 24 VDC; 24 VAC
- Two SD card slots for on-camera storage
- IP66; IK10

### MODELS

V2020-WIR-360  
V2032-WIR-360



## ROUGHNECK AI DOME SERIES

### KEY FEATURES

- 2 MP, 5 MP and 4K (8 MP) models
- NDAA-compliant
- H.265/H.264 and M-JPEG compression
- 3.1-10 mm, 3.6-10 mm, and 8-18 mm lenses available
- Min. Color Illumination: 0.007 lux (2 MP); 0.03 lux (5 MP); 0.02 lux (8 MP)
- Temp: -40° to 140 F (-40° to 60° C)
- Dual heaters
- True WDR
- Motorized zoom and focus lens
- Smart/Adaptive IR illumination: 131 ft (40 m)
- Starlight low-light imaging
- Museum Search
- Advanced AI-Based Analytics\*
- Audio and Alarm input/output
- Powered by PoE; 12 VDC; 24 VAC
- Video composite out
- SD card slot for on-camera storage
- IP67; IK10

### MODELS

V2002D-W313MIR\*  
V2005D-W313MIR  
V2005D-W818MIR  
V2008D-W310MIR  
V2008D-W818MIR



## ROUGHNECK AI MICRO DOME SERIES

### KEY FEATURES

- 2 MP and 5 MP models
- NDAA-compliant
- Low-profile, compact design—just 4" in diameter
- H.265/H.264 and M-JPEG compression
- Temp: -22° to 131° F (-30° to 55° C)
- Min. Color Illumination: 0.007 lux (2 MP); 0.03 lux (5 MP)
- True WDR
- Fixed 2.8 mm lens
- Smart/Adaptive IR illumination: 49 ft (15 m)
- Starlight low-light imaging
- Museum Search
- Smart Encoding
- Advanced AI-Based Analytics\*
- Built-in microphone
- Powered by PoE
- SD card slot for on-camera storage
- IP67; IK10

### MODELS

V2002D-W28IRM\*  
V2005D-W28IRM

\*2 MP model does not support object classification.

# IP Fixed Domes



## ROUGHNECK AI 360° PANORAMIC DOME

### KEY FEATURES

- 12 MP model
- NDAA-compliant
- H.265/H.264 and M-JPEG compression
- Min. Color Illumination: 0.007 lux
- Temp: -40° to 122 F (-40° to 50° C)
- True WDR
- Fisheye lens; 360° panorama at full HD
- Smart IR illumination: 49 ft (15 m)
- Museum Search
- Smart Encoding
- Advanced AI-Based Analytics
- Built-in microphone
- Audio and alarm input/output
- Powered by PoE+; 24 VAC
- SD card slot for on-camera storage
- IP67; IK10

### MODEL

V2360W-12-1



## ROUGHNECK DOME SERIES

### KEY FEATURES

- 2 MP and 5 MP models
- NDAA-compliant
- H.265/H.264 and M-JPEG compression
- 3.1-10 mm lens
- Min. Color Illumination: 0.015 lux (2 MP); 0.05 lux (5 MP)
- Temp: -22° to 140° F (-30° to 60° C)
- True WDR
- Motorized zoom and focus lens
- Smart IR: 98 ft (30 m)
- Museum Search
- Smart Encoding
- Powered by PoE; 12 VDC
- SD card slot for on-camera storage
- IP67; IK10

### MODELS

V2102D-W313MIR  
V2105D-W313MIR

# IP PTZ Cameras



## ROUGHNECK AI PTZ DOME

### KEY FEATURES

- 2 MP and 5 MP models
- NDAA-compliant
- H.265/H.264 compression
- Min. Color Illumination: 0.007 lux (2 MP); 0.03 lux (5 MP)
- Starlight low-light imaging
- Temp: -40° to 140° F (-40° to 60° C)
- True WDR
- Advanced AI-Based Analytics\*
- 4.5-135 mm (2 MP); 5.2-148 mm (5 MP); 30X optical zoom; 8X digital zoom
- Adaptive/Smart IR (automatic): 492 ft (150 m)
- Museum Search
- Two-way audio
- Alarm input/output
- PoE++; 24 VAC; 48 VDC
- IP66; IK10

### MODELS

V2002D-PTZ\*  
V2005D-PTZ

\*2 MP model does not support object classification.

# IP Bullet Cameras



## ROUGHNECK AI BULLET SERIES

### KEY FEATURES

- 2 MP, 5 MP and 4K (8 MP) models
- NDAA-compliant
- H.265/H.264 and M-JPEG
- 3.1-10 mm, 3.6-10 mm, and 8-18 mm lenses available
- Min. Color Illumination: 0.007 lux (2 MP); 0.03 lux (5 MP); 0.02 lux (8 MP)
- Temp: -40° to 140 F (-40° to 60° C)
- Dual heaters
- True WDR
- Motorized zoom and focus lens
- Smart/Adaptive IR: 131 ft (40 m) range
- Starlight low-light imaging
- Advanced AI-Based Analytics\*
- Museum Search
- Audio and Alarm input/output
- Powered by PoE+; 12 VDC; 24 VAC
- SD card slot for on-camera storage
- IP67; IK10

### MODELS

V2002B-W313MIR\*  
V2005B-W313MIR  
V2005B-W818MIR  
V2008B-W310MIR  
V2008B-W818MIR



## ROUGHNECK BULLET SERIES

### KEY FEATURES

- 2 MP and 5 MP models
- NDAA-compliant
- H.265/H.264 and M-JPEG compression
- Min. Color Illumination: up to 0.015 lux; 0.05 lux (5 MP)
- Temp: -22° to 140° F (-30° to 60° C)
- Motorized zoom and focus lens
- Smart IR Illumination: 98 ft (30 m)
- Museum Search
- Smart Encoding
- True WDR
- Powered by PoE; 12 VDC
- SD card slot for on-camera storage
- IP67; IK08

### MODELS

V2102B-W313MIR  
V2105B-W313MIR

# IP Box Camera



## ROUGHNECK AI BOX CAMERA

### KEY FEATURES

- 4K (8 MP) model
- NDAA-compliant
- H.265/H.264 and M-JPEG compression
- Min. Color Illumination: 0.02 lux
- Temp: 14° to 131° F (-10° to 55° C)
- True WDR
- Starlight low-light imaging
- Museum Search
- Smart Encoding
- Advanced AI-Based Analytics
- Supports megapixel DC iris, P-iris or i-CS lens option
- Built-in ABF button for easy focus
- Alarm and Audio input/output
- Powered by PoE; 12 VDC; 24 VAC
- SD card slot for on-camera storage
- iCS lens, environmental housing, with wall mount, and IR illuminator also available

### MODEL

V2008-W-NL

\*2 MP model does not support object classification.

# Specialty Cameras



## ROUGHNECK AI V-CELL CAMERA

### KEY FEATURES

- 5 MP
- NDAA-compliant
- Anti-ligature, no grip, tamper-resistant housing
- H.264/H.265 and M-JPEG compression
- Min. Color Illumination: 0.003 lux
- Temp: -4° to 140° F (-20° to 60° C)
- True WDR
- 2.4 mm fixed lens
- Non-visible (940 nm) IR up to 98 ft (30 m)
- Museum Search
- Advanced AI-Based Analytics
- Integrated microphone and speaker
- Alarm and Audio input/output
- Easy to clean stainless steel, water-resistant, corrosion-resistant enclosure
- Camera-only module available for retrofitting into existing V-CELL housing
- Powered by PoE; 12 VDC; 24 VAC
- IP66; IK10

### MODELS

V-CELL-HD-C  
V-CELL-HD-CMOD



## ROUGHNECK AI CORNER MOUNT CAMERA

### KEY FEATURES

- 5 MP
- NDAA-compliant
- Tamper-resistant housing
- H.264/H.265 and M-JPEG compression
- Min. Color Illumination: 0.003 lux
- Temp: -4° to 140° F (-20° to 60° C)
- True WDR
- 2.4 mm fixed lens
- Non-visible (940 nm) IR up to 98 ft (30 m)
- Museum Search
- Advanced AI-Based Analytics
- Integrated microphone and speaker
- Alarm and Audio input/output
- Easy to clean aluminum, water-resistant, corrosion-resistant enclosure
- Powered by PoE; 12 VDC
- IP66; IK10; 24 VAC

### MODELS

V2005CNR-W24IR



## INTEGRATED THERMAL SENSOR AND PTZ

### KEY FEATURES

- Thermal detection and tracking of intruders up to 1640 ft in a 360° panoramic view
- Integrated high-speed PTZ provides real-time tracking
- Compatible with 5 MP Roughneck AI PTZ
- Geospatial tracking on localized maps
- Advanced AI-Based Analytics
- Excellent performance regardless of lighting or weather conditions
- Dual inputs to VMS provide PTZ image and multi-screen customized thermal display
- One thermal unit can replace up to 8 fixed cameras

### MODELS

VTR-3200  
VTR-3300  
VTR-6200  
VTR-6400  
VTR-6600

# License Plate Recognition Cameras



## ROUGHNECK AI LPR BULLET CAMERA

### KEY FEATURES

- 4K (8 MP) resolution
- NDAA-compliant
- H.264/H.265 and MJPEG
- 3.6-10 mm and 8-18 mm lenses available
- Min. color illumination: 0.01 lux
- Temp: -40° to 140° F (-40° to 60° C)
- Dual heaters
- True WDR
- Motorized zoom and focus
- Smart/Adaptive IR: 131 ft (40 m)
- Starlight low-light imaging
- LPR software embedded on camera
- Supports license plates from over 70 countries
- Supports customized lists of plates
- Max vehicle speed: 15 mph (20 km/hr)
- Advanced analytics
- Museum Search
- Audio and alarms
- PoE+; 12 VDC; 24 VAC
- SD card slot for on-camera storage
- IP67; IK10

### MODELS

V2008B-W310LPR  
V2008B-W818LPR



## ROUGHNECK AI LPR CAMERA KIT

### KEY FEATURES

- Kit includes the camera, iCS lens, housing and IR illuminator
- 4K (8 MP) resolution
- NDAA-compliant
- H.264/H.265 and MJPEG
- Min. color illumination: 0.02 lux
- Temp: -4° to 149° F (-20° to 65° C)
- De-icing window heater and fan
- True WDR
- Remotely adjustable zoom and focus
- IR: 164-459 ft (50-140 m)
- Starlight low-light imaging
- LPR software embedded on camera
- Supports license plates from over 70 countries
- Supports customized lists of plates
- Max vehicle speed: 15 mph (20 km/hr)
- Advanced analytics
- Museum Search
- Audio and alarm input/output
- PoE
- SD card slot for on-camera storage
- IP68; IK10

### MODELS

V2008-W0950-LPR



## The Big Picture and Plate Details from One Camera

Capture, store, and search on an unlimited number of license plates.

Create lists of license plates that you want to be alerted about when they pull in.

Visually examine details like vehicle color, make and model—as well as the scene surrounding the vehicle—in impressive 8 MP detail.



## Camera Accessories

Choose from a variety of additional accessories to augment your surveillance infrastructure.



### PoE Port Combiner/Splitter

For customers who want to lower the installation cost of two co-located cameras, or add a second camera to an existing installation, this solution lets you connect any two Roughneck cameras using a single Cat5/6 cable.



### Widescreen LED Monitor

The 23.8-inch monitor delivers clear, crisp video via a wide-screen, ideal for multi-camera display. Front panel buttons allow for easy control, with power, video, audio, and external equipment connectors on the rear panel.



### Fiber-Optic Media Converters

These converters extend the range of your Ethernet IP network from 328 feet (100 m) to 2 miles (3 km). Available in standalone or rack-mount models, with hot-swappable modules, they require no in-field optical adjustments.



### PoE-over-Coax Replacement Kits

Replace existing analog cameras with the latest in high-res IP technology. Available in single, 4-channel, or 8-channel models, these encoders offer reliable power delivery and long-range extension, even over low-grade coax cables.

# Fixed Dome Mounting Options



Roughneck AI Dome   V2002D-W313MIR   V2005D-W313MIR   V2005D-W818MIR   V2008D-W310MIR   V2008D-W818MIR						
Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Drop Ceiling:</b> V2000D-ICD  	<b>Short Wall Mount:</b> SVFT-WM-1    Requires Pendant Cap (V2XXXD-PM)	<b>Corner Mount:</b> V-24CMB-4    Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2XXXD-PM)	<b>Pole Mount:</b> V-20B-A-4    Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2XXXD-PM)	<b>Parapet Mount:</b> SVFT-UPM-2    Requires Pendant Cap (V2XXXD-PM)	<b>Not Required</b>	<b>Electrical Box Mount:</b> V2000D-PLATE  
<b>Hard Ceiling:</b> V2000D-ICH  	<b>Long Wall Mount:</b> SVFT-UWM-1    Requires Pendant Cap (V2XXXD-PM)					
<b>Universal Ceiling:</b> SVFT-UCM-1    Requires Pendant Cap with Sunshield (V2XXXD-PM)						
<b>Pendant Mount:</b> V1001-PM    Requires Pendant Cap with Sunshield (V2XXXD-PM)						



Roughneck AI Micro Dome   V2002D-W28IRM   V2005D-W28IRM   V2002D-W28IR   V2005D-W28IR						
Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Universal Ceiling:</b> SVFT-UCM-1    Requires Pendant Cap (V2XXXD-PM and V2XXXD-ADPT)	<b>Angled Base Mount:</b> V2XXXD-WDG  				<b>Backbox Mount:</b> V2000D-MICRO-BOX  	<b>Electrical Box Mount:</b> V2000D-MICRO-PLATE  
<b>Angled Base Mount:</b> V2XXXD-WDG  						V2XXX-WDG-PLATE    Requires Angled Base Mount (V2XXX-WDG)



Roughneck AI Multi-Sensor | V2020-WIR-360 | V2032-WIR-360 |

Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>In-Ceiling:</b> V2000-360-ICD 	<b>Short Wall Mount:</b> V1001-WM 	<b>Corner Mount:</b> V-24CMB-4  Requires Adaptor Plate (V1001-ADAPT) and Wall Mount (V1001-WM or SVFT-UWM-1)	<b>Pole Mount:</b> V-20B-A-4  Requires Adaptor Plate (V1001-ADAPT) and Wall Mount (V1001-WM or SVFT-UWM-1)	<b>Parapet Mount:</b> SVFT-UPM-2 	Not Required	Not Required
<b>Pendant Mount:</b> V1001-PM 	<b>Long Wall Mount:</b> SVFT-UWM-1 					



Roughneck AI Panoramic Dome | V2360W-12-1 |

Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Drop Ceiling:</b> V2360W-ICD 	<b>Short Wall Mount:</b> SVFT-WM-1  Requires Pendant Cap (V2000D-PM)	<b>Corner Mount:</b> V-24CMB-4  Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2000D-PM)	<b>Pole Mount:</b> V-20B-A-4  Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2000D-PM)	<b>Parapet Mount:</b> SVFT-UPM-2  Requires Pendant Cap (V2000D-PM)	<b>Backbox Mount:</b> V2000B-BOX 	<b>Electrical Box Mount:</b> V2360W-PLATE 
<b>Hard Ceiling:</b> V2360W-ICH 	<b>Long Wall Mount:</b> SVFT-UWM-1  Requires Pendant Cap (V2000D-PM)					V2XXX-WDG-PLATE  Requires Angled Base Mount (V2XXX-WDG)
<b>Universal Ceiling:</b> SVFT-UCM-1  Requires Pendant Cap (V2000D-PM)	<b>Angled Base Mount:</b> V2XXXD-WDG 					
<b>Angled Base Mount:</b> V2XXXD-WDG 						

# Fixed Dome Mounting Options (cont'd)



Roughneck Dome   V2102D-W313MIR   V2105D-W313MIR						
Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Drop Ceiling:</b> V2100D-ICD 	<b>Short Wall Mount:</b> SVFT-WM-1  Requires Pendant Cap (V2XXXD-PM)	<b>Corner Mount:</b> V-24CMB-4  Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2XXXD-PM)	<b>Pole Mount:</b> V-20B-A-4  Requires Wall Mount (SVFT-UWM-1) and Pendant Cap (V2XXXD-PM)	<b>Parapet Mount:</b> SVFT-UPM-2  Requires Pendant Cap (V2XXXD-PM)	<b>Backbox Mount:</b> V2100D-BOX 	<b>Electrical Box Mount:</b> V2100D-PLATE 
<b>Hard Ceiling:</b> V2100D-ICH 	<b>Long Wall Mount:</b> SVFT-UWM-1  Requires Pendant Cap (V2XXXD-PM)					
<b>Universal Ceiling:</b> SVFT-UCM-1  Requires Pendant Cap (V2XXXD-PM)						
<b>Pendant Mount:</b> V1001-PM  Requires Pendant Cap (V2XXXD-PM)						

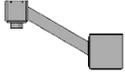
# Box Camera Mounting Option



Roughneck AI Box Camera Housing and Roughneck AI Camera Kit   V-HSG-POE   V2008-W0950-LPR
<b>Pole Mount</b>
<b>Pole Mount:</b> V-HSG-PM 

# PTZ Mounting Options



Thermal Sensor PTZ   VTR-3200   VTR-3300   VTR-6200   VTR-6400   VTR-6600			
Wall Mount	Corner Mount	Pole Mount	Parapet Mount
<b>Wall Mount:</b> V-ARM-TR 	<b>Corner Mount:</b> V-CMK-TR  Requires Wall Mount (V-ARM-TR)	<b>Pole Mount:</b> V-PMK-TR  Requires Wall Mount (V-ARM-TR)	<b>Parapet Mount:</b> V-RMK-TR 



Roughneck AI PTZ   V2002D-PTZ   V2005D-PTZ				
Ceiling Mount	Wall Mount	Corner Mount	Pole Mount	Parapet Mount
<b>Universal Ceiling:</b> SVFT-UCM-1 	<b>Standard Wall Mount:</b> SVFT-WM-1 	<b>Corner Mount:</b> V-24CMB-4  Requires Wall Mount (SVFT-UWM-1)	<b>Pole Mount:</b> V-20B-A-4  Requires Wall Mount (SVFT-UWM-1)	<b>Parapet Mount:</b> SVFT-UPM-2 
<b>Pendant Mount:</b> V1001-PM 	<b>Large Wall Mount:</b> SVFT-UWM-1 			

# Bullet Camera Mounting Options



Roughneck AI Bullet   V2002B-W313MIR   V2005B-W313MIR   V2005B-818MIR   V2008B-W310MIR   V2008B-W818MIR   V2008B-W310LPR   V2008B-W818LPR			
Corner Mount	Pole Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Corner Mount:</b> V-24CMB-4 	<b>Pole Mount:</b> V-20B-A-4 	<b>Backbox Mount:</b> V2000B-BOX 	<b>Electrical Box Mount:</b> V2000B-PLATE 



Roughneck Bullet   V2102B-W313MIR   V2105B-W313MIR			
Corner Mount	Pole Mount	Backbox Mount	4x4 Electrical Plate Mount
<b>Corner Mount:</b> V-24CMB-4 	<b>Pole Mount:</b> V-20B-A-4 	<b>Backbox Mount:</b> V2100B-BOX 	<b>Electrical Box Mount:</b> V2100B-PLATE 



If you're a decision maker in your business, and you're ready to learn more about our end-to-end solutions, we invite you to contact your local Vicon Integrator or contact a Vicon Sales Rep directly.

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