VICON

	Roughneck AI Dome ◢Ⅰ	Roughneck Dome	Roughneck AI Micro-Dome ◢Ⅰ
Model Number	V2005D-W313MIR: 3.1-10mm V2005D-W818MIR: 8-18mm	V2105D-W313MIR	V2005D-W28IRM
Resolution	5MP (2592×1944)	5MP (2592×1944)	5MP (2592×1944)
Image Sensor	1/2.8"	1/2.8"	1/2.8"
Lens/Optical Zoom	3.1-10mm MFZ DC autoiris/3.2X 8-18mm MFZ DC autoiris/2.25X	3.1-10mm MFZ/3.2X	2.8mm; fixed
FOV (Horizontal/Vertical)	3.1-10mm: 32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide) 8-18mm: 17° (tele) - 40° (wide)/ 13° (tele) - 29° (wide)	32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide)	104°/78°
Day/Night	TDN; removeable IR cut filter	TDN; removeable IR cut filter	TDN; removeable IR cut filter
IR Capabilities	Smart/Adaptive; up to 131 ft (40 m)	Smart; up to 98 ft (30 m)	Smart/Adaptive; up to 49 ft (15 m)
Minimum Illumination @ 30 IRE	Color: 3.1-10mm: 0.03 lux 8-18mm: 0.02 lux BW: 0.01 lux	Color: 0.5 lux BW: 0.03 lux	Color: 0.03 lux BW: 0.01 lux
True WDR	120 dB	120 dB	120 dB
Pan/Tilt/Rotate	370°; 0-75°; 355°	355°; 0-70°; 355°	180°; 0-80°; 355°
Video Compression	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG
Frame Rate	30 fps	30 fps	30 fps
Audio	2-way	N/A	2-way; built-in microphone
Alarm Inputs/Outputs	1/1	N/A	N/A
Standard Analytics	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search
Advanced Analytics	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	N/A	Intrusion, loitering, line cross, tailgating, object left/removed, crowding
Object-Based Classification	People, vehicles, animals	N/A	People, vehicles, animals
Power	PoE IEEE 802.3af class 3; 12 VDC; 24 VAC	PoE IEEE 802.3af class 3; 12 VDC	PoE IEEE 802.3af class 3
Internal Storage	Micro SD card slot for SDHC/SDXC card; 128 G max	Micro SD card slot for SDHC/SDXC card; 128 G max	Micro SD card slot for SDHC/SDXC card; 128 G max
Dimensions (Diam x Height)	5.3 in. (135 mm) x 4.49 in. (125 mm)	4.9 in. (124 mm) x 4.4 in. (112 mm)	4.3 in. (110 mm) x 2.2 in. (57 mm)
Operating Temperature	-40° to 140° F (-40° to 60° C)	-22° to 140° F (-30° to 60° C)	-22° to 131° F (-30° to 55° C)
Vandal Resistant	IK10	IK10	IK10
Weather Resistant	IP67	IP67	IP67
Mounting Options	Surface, pendant, in-ceiling, wall, corner, pole, parapet, 4×4 electrical box, backbox	Surface, pendant, in-ceiling, wall, corner, pole, parapet, 4×4 electrical box, backbox	Surface, pendant, wall, corner, pole, 4×4 electrical box, backbox

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	Roughneck AI Multi-Sensor (AI)	Roughneck AI Fisheye (AI)	Roughneck AI PTZ with Auto-tracking (AI)
Model Number	V2020-WIR-360: 20MP	V2360W-12-1	V2008PTZ-IR
Resolution	20MP [4x 5MP (2592×1944)]	12MP (2976×2976)	8MP (3840×2160)
Image Sensor	1/2.8"	1/2.3"	1/1.8"
Lens/Optical Zoom	3.1-10mm MFZ P-iris/3.2X	Fisheye	6.5-230mm MFZ P-iris/35X/8X
FOV (Horizontal/Vertical)	32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide)	195° (full resolution); 360° (surround view)	2.0° (tele) - 60.4° (wide)/ 1.2° (tele) - 35.9° (wide)
Day/Night	TDN; removeable IR cut filter	TDN; removeable IR cut filter	TDN; removeable IR cut filter
IR Capabilities	Up to 131 ft (40 m)	Smart; up to 49 ft (15 m)	Adaptive; up to 1312 ft (400 m)
Minimum Illumination @ 30 IRE	Color: 0.02 lux BW: 0.01 lux	Color: 0.007 lux BW: 0.1 lux	Color: 0.04 lux BW: 0.01 lux
True WDR	120 dB	120 dB	130 dB
Pan/Tilt/Rotate	360°; 0-90° remotely adjustable	N/A	360° continuous/-20° to 90°
Video Compression	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG
Frame Rate	30 fps	30 fps	30 fps
Audio	2-way	2-way; built-in microphone	2-way
Alarm Inputs/Outputs	1/1	1/1	1/1
Standard Analytics	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search
Advanced Analytics	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	Intrusion, loitering, line cross, tailgating, crowding
Object-Based Classification	People, vehicles, animals	People, vehicles, animals	N/A
Other Functions	N/A	N/A	Auto-tracking (people), speed dry; Optical Image Stabilization (OIS)
Power	PoE++ (IEEE802.3bt Class 5); 24 VDC; 24 VAC	PoE+ IEEE 802.3at class 4; 24 VAC	PoE++ IEEE 802.3bt, class 8; 24 VAC
Internal Storage	Two card slots for SD card	Micro SD card slot for SDHC/SDXC card; 128 G max	Micro SD card slot for SDHC/SDXC card; 1 TB max
Dimensions (Diam x Height)	9.7 in. (247.5 mm) x 5.6 in. (142.3 mm)	5 in. (150 mm) x 2.2 in. (57 mm)	7.5 in. (190 mm) x 14.2 in. (361.9 mm)
Operating Temperature	-40° to 131° F (-40° to 55° C) IR Off	-40° to 122° F (-40° to 50° C)	-40° to 149° F (-40° to 65° C) -40° to 158° F (-40° to 70° C) IR Off for 4 hours a day
Vandal Resistant	IK10	IK10	IK10
Weather Resistant	IP66	IP67	IP66
Mounting Options	Surface, pendant, in-ceiling, wall, corner, pole, parapet	Surface, pendant, in-ceiling, wall, corner, pole, parapet, 4×4 electrical box, backbox	Pendant, wall, corner, pole, parapet

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	Roughneck AI Bullet	Roughneck Bullet
Model Number	V2005B-W31MIR: 3.1-10mm V2005B-W818MIR: 8-18mm	V2105B-W313MIR
Resolution	5MP (2592×1944)	5MP (2592×1944)
Image Sensor	1/2.8"	1/2.8"
Lens/Optical Zoom	3.1-10mm MFZ DC autoiris/3.2X 8-18mm MFZ DC autoiris/2.25X	3.1-10mm MFZ/3.2X
FOV (Horizontal/Vertical)	3.1-10mm: 32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide) 8-18mm: 19° (tele) - 40° (wide)/ 13° (tele) - 29° (wide)	32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide)
Day/Night	TDN; removeable IR cut filter	TDN; removeable IR cut filter
IR Capabilities	Smart/Adaptive; up to 131 ft (40 m)	Smart; up to 98 ft (30 m)
Minimum Illumination @ 30 IRE	Color 3.1-10mm: 0.03 lux 8-18mm: 0.02 lux BW: 0.01 lux	Color: 0.05 lux BW: 0.03 lux
True WDR	120 dB	120 dB
Pan/Tilt/Rotate	Adjusted using integral wall mount	Adjusted using integral wall mount
Video Compression	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG
Frame Rate	30 fps	30 fps
Audio	2-way	N/A
Alarm Inputs/Outputs	1/1	N/A
Standard Analytics	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search
Advanced Analytics	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	N/A
Object-Based Classification	People, vehicles, animals	N/A
Power	PoE+ IEEE 802.3at class 4; 12 VDC; 24 VAC	PoE IEEE 802.3af class 3; 12 VDC
Internal Storage	Micro SD card slot for SDHC/SDXC card; 128 G max	Micro SD card slot for SDHC/SDXC card; 128 G max
Dimensions	Diam: 3.5 in. (89 mm) Length: 10.3 in. (261 mm)	Width: 3.3 in. (84 mm) Height: 3.1 in. (79 mm) Length: 6.9 in. (177 mm)
Operating Temperature	-40° to 140° F (-40° to 60° C)	-22° to 140° F (-30° to 60° C)
Vandal Resistant	IK10	IK08
Weather Resistant	IP67	IP67
Mounting Options	Wall, pole, corner, 4×4 electrical box, backbox	Wall, pole, corner, 4×4 electrical box, backbox

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	Roughneck AI Corner Camera **AI**	Roughneck AI High-Security Camera **AI**	Roughneck AI Box Camera **AI**
Model Number	V2005CNR-W24IR	V-CELL-HD-C	V2008-W-NL
Resolution	5MP (2592×1944)	5MP (2592×1944)	8MP (3840×2160)
Image Sensor	1/2.8"	1/2.8"	1/1.8"
Lens/Optical Zoom	2.4mm; fixed	2.4mm; fixed	Supports lens types iCS, P-Iris, DC-iris
FOV (Horizontal/Vertical)	121°/93°	121°/93°	N/A
Day/Night	TDN; removeable IR cut filter	TDN; removeable IR cut filter	TDN; removeable IR cut filter
IR Capabilities	Smart/Adaptive; up to 98 ft (30 m)	Smart/Adaptive; up to 98 ft (30 m)	N/A
Minimum Illumination @ 30 IRE	Color: 0.003 lux BW: 0.001 luxx	Color: 0.003 lux BW: 0.001 lux	Color: 0.02 lux BW: 0.01 lux
True WDR	120 dB	120 dB	120 dB
Video Compression	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG	H.265, H.264, M-JPEG
Frame Rate	30 fps	30 fps	30 fps
Audio	2-way; built-in mic & speakers	2-way; built-in mic & speakers	2-way
Alarm Inputs/Outputs	1/1	1/1	1/1
Standard Analytics	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search	Motion detection, tampering/defocus detection, museum search
Advanced Analytics	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	Intrusion, loitering, line cross, tailgating, object left/removed, crowding	Intrusion, loitering, line cross, tailgating, object left/removed, crowding
Object-Based Classification	People, vehicles, animals	People, vehicles, animals	People, vehicles, animals
Power	PoE IEEE 802.3af class 3; 12 VDC; 24 VAC	PoE IEEE 802.3af class 3; 12 VDC; 24 VAC	PoE IEEE 802.3af class 3; 12 VDC; 24 VAC
Internal Storage	Micro SD card slot; 1 TB max	Micro SD card slot; 1 TB max	Micro SD card slot for SDHC/SDXC card; 128 G max
Dimensions	8.2 x 7.9 x 2.4 in. (208 x 200 x 60 mm)	12.4 x 14.7 x 2.9 in. (315 x 372 x 73 mm)	Width: 2.9 in. (73 mm) Height: 2.4 in. (62 mm) Length: 4.1 in. (104 mm)
Operating Temperature	-4° to 140° F (-20° to 60° C)	-4° to 140° F (-20° to 60° C)	14° to 131° F (-10° to 55° C) without environmental housing
Vandal Resistant	IK10	IK10	N/A
Weather Resistant	IP66	IP66	N/A
Mounting Options	Surface (corner)	Surface (corner)	1/4-20 threaded hole top and bottom; housing with integral wall mount and pole mount adapter available