



	Roughneck AI Dome	Roughneck Dome	Roughneck AI Micro-Dome
Model Number	V2005D-W313MIR: 3.1-10mm V2005D-W818MIR: 8-18mm	V2105D-W313MIR	V2005D-W28IRM
Resolution	5MP (2592x1944)	5MP (2592x1944)	5MP (2592x1944)
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, 4x4 electrical box, backbox	Surface, pendant, in-ceiling, wall, corner, pole, parapet, 4x4 electrical box, backbox	Surface, pendant, wall, corner, pole, 4x4 electrical box, backbox



	Roughneck AI Multi-Sensor	Roughneck AI Fisheye	Roughneck AI PTZ with Auto-Tracking
Model Number	V2020-WIR-360: 20MP V2032-WIR-360: 32MP	V2360W-12-1	V2008PTZ-IR
Resolution	20MP: [4x 5MP (2592x1944)] 32MP: [4x 8MP (3840x2160)]	12MP (2976x2976)	8MP (3840x2160)
Image Sensor	20MP: 1/2.8" 32MP: 1/1.8"	1/2.3"	1/1.8"
Lens/Optical Zoom	20MP: 3.1-10mm MFZ P-iris/3.2X 32MP: 3.6-10mm MFZ P-iris/2.8X	Fisheye	6.5-230mm MFZ P-iris/35X/8X
FOV (Horizontal/Vertical)	20MP: 32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide) 32MP: 46° (tele) - 98° (wide)/ 26° (tele) - 54° (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: 5MP: 0.03 lux 8MP: 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, 4x4 electrical box, backbox	Pendant, wall, corner, pole, parapet



	Roughneck AI Bullet	Roughneck Bullet
Model Number	V2005B-W31MIR: 3.1-10mm V2005B-W818MIR: 8-18mm	V2105B-W313MIR
Resolution	5MP (2592x1944)	5MP (2592x1944)
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, 4x4 electrical box, backbox	Wall, pole, corner, 4x4 electrical box, backbox



	Roughneck AI Corner Camera	Roughneck AI High-Security Camera	Roughneck AI Box Camera
Model Number	V2005CNR-W24IR	V-CELL-HD-C	V2008-W-NL
Resolution	5MP (2592x1944)	5MP (2592x1944)	8MP (3840x2160)
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