Versa^{x} Cameras
Product Details

The ultimate modular motion capture camera. Built tough with an IP66 rating and versatile mounting options, making it perfect for any environment from the manufacturing floor to outdoor setups.



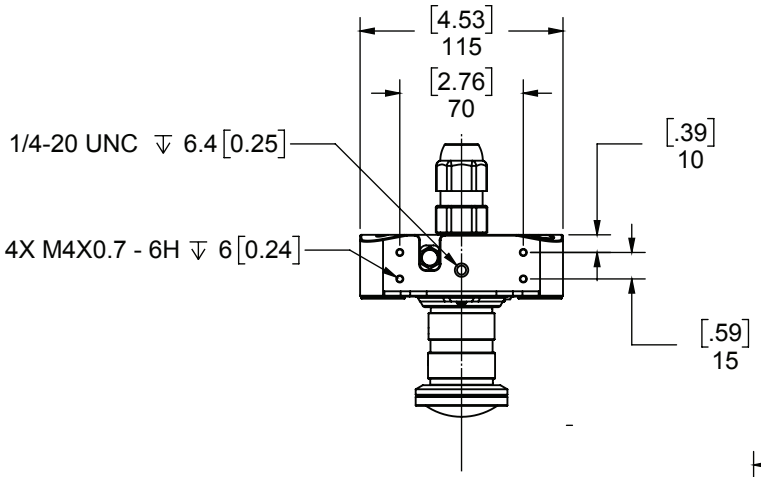
Versa^{x} Camera Specifications

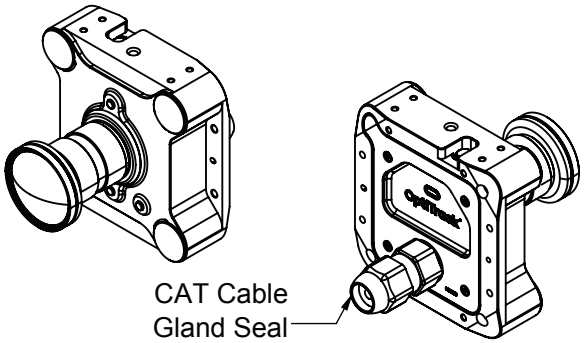
	Versa^{x} 22	Versa^{x} 22W	Versa^{x} 41	Versa^{x} 41N	Versa^{x} 41W	Versa^{x} 120	Versa^{x} 120N	Versa^{x} 120W
Performance								
Maximum Frame Rate (Full Resolution)	360 Hz		180 Hz			300 Hz		
Maximum Possible Frame Rate	1000 Hz							
Selectable Frame Rates	Yes							
Latency	2.8 ms		5.5 ms			3.3 ms		
3D Accuracy	+/- 0.3 mm		+/- 0.1 mm		+/- 0.3 mm	+/- 0.1 mm		
Marker Type	Active	Active/Passive	Active	Active/Passive		Active	Active/Passive	
Maximum Detection Distance	30 m	30 m / 21 m	45 m	45 m/30 m	30 m/21 m	91 m	91 m/40 m	40 m
Sensor								
Resolution	2048x1088		2048x2048			4096x3072		
Shutter Type	Global							
Adjustable Exposure	Yes							
Shutter Speed (Default)	0.25 ms							
Shutter Speed (Min.)	0.01 ms							
Shutter Speed (Max.)	2.8 ms at 360fps		5.4 ms at 180 fps			3.13 ms at 300 fps		
Physical Attributes								
Width	115 mm (4.53")		126 mm (4.96")			150 mm (5.91")	160.8 mm (6.33")	
Height	115 mm (4.53")		126 mm (4.96")			150 mm (5.91")	160.8 mm (6.33")	
Depth	108 mm (4.27")	113 mm (4.46")	130 mm (4.46")	140 mm (5.52")		157 mm (6.18")	164.3 mm (6.47"")	
Weight (includes lens)	1.00 kg (2.21 lbs)	1.86 kg (4.09 lbs)	1.01 kg (2.22 lbs)	1.92 kg (4.24 lbs)	1.91 kg (4.22 lbs)	2.10 kg (4.62 lbs)	3.74 kg (8.25 lbs)	
Base Materials	Aluminum & Polycarbonate							
Color	Black & Gray							
Aim/Focus Assist Spotlights	Yes	N/A	Yes	N/A		Yes	N/A	
Ringlight								
Contains	No	Yes	No	Yes		No	Yes	
Modular	Yes							
Number of LEDs	N/A	20	N/A	20		N/A	60	
LED Wavelength	N/A	850 nm	N/A	850 nm		N/A	850 nm	
LED Output	N/A	Wide , High-Power	N/A	High-Power	Wide , High-Power	N/A	High-Power	Wide , High-Power
Optical Attributes								
Lens FOV (HxV)	81° x 48°		51°x 51° 67°x 67° (optional)	51°x 51°	67°x 67°	51°x 39° 67°x 51° (optional)	51°x 39°	65°x 51°
Lens Focal Distance	6.8 mm		12 mm 8.9 mm (optional)	12 mm	8.9 mm	24 mm 18 mm (optional)	24 mm	18 mm
Aperature Size	f/1.6		f/1.8			f/2.5		
Lens Adjustable Focus	Yes							
Lens Adjustable F-Stop	Yes							

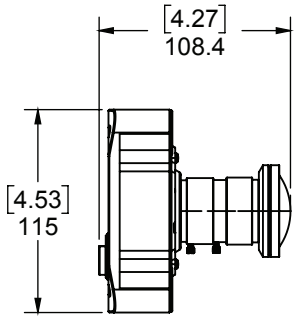
	Versa^{X} 22	Versa^{X} 22W	Versa^{X} 41	Versa^{X} 41N	Versa^{X} 41W	Versa^{X} 120	Versa^{X} 120N	Versa^{X} 120W
Optical Attributes Continued								
Filter Wavelength	850 nm bandpass 780 nm longpass (optional) 800 nm longpass (optional) 940 nm bandpass (optional)							
Filter Switcher	Optional							
Filter Switcher Wavelengths	Visable (430-650 nm bandpass) Selection of second filter: 780 nm bandpass 800 nm longpass 850 nm bandpass 940 nm bandpass							
Electrical Attributes								
Power Input	PoE	PoE+	PoE	PoE+		PoE+		PoE++
IEEE Standard	IEEE 802.3af	IEEE 802.3at	IEEE 802.3af	IEEE 802.3at		IEEE 802.3at		IEEE 802.3bt (Type 3)
Power Draw (max)	15 W	30 W	15 W	30W		30W		50W
Connector	RJ45							
Cabling	Cat 6 or Cat6a (Highly Recommended)							
Data Architechture								
Communication	GigE Ethernet							
Ethernet Protocol	Yes							
Camera Sync	Yes							
Image Processing	Object Raw Grayscale MJPEG Grayscale Duplex (Patent Pending)							
Grayscale Depth	10-bit							
Status Indicators								
Numeric LED	2-digit					3-digit		
Full-color LED Health and Activity	LED Only	Yes	LED Only	Yes		LED Only		Yes
Mounting								
Type and QTY	1/4”-20 (2X)	1/4”-20 (4X)	1/4”-20 (2X)	1/4”-20 (4X)		1/4”-20 (2X)		1/4”-20 (4X)
	M4-0.7 mm (12X), M5-0.8 mm (4X)							
Precision Alignment	3mm slot and 3mm hole for location pins							
Environment								
IP Rating	IP66 – Not suitable for saltwater environments, including exposure to salt spray or salt-laden air.							
Operational Temperature	0 - 50°C							
Storage Temperature	-40 - 70°C							
RoHS Compliant	Yes							
CE	Yes							

Versa^{X} 22

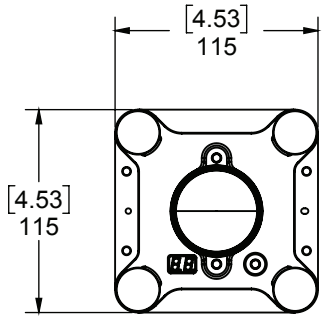
Technical Drawings

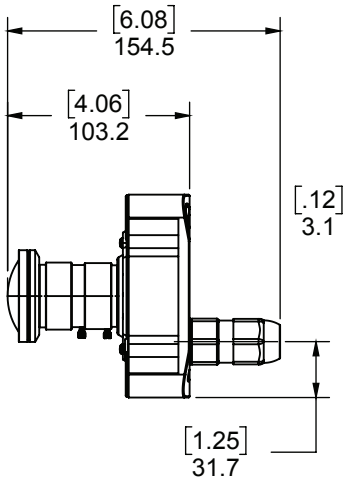


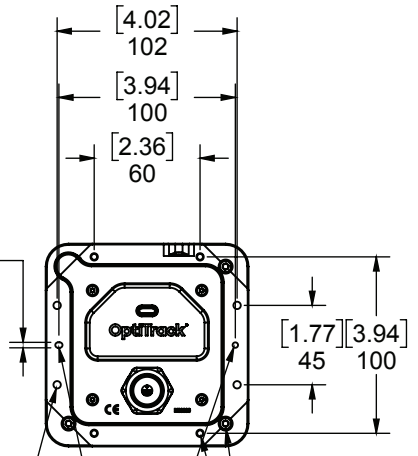


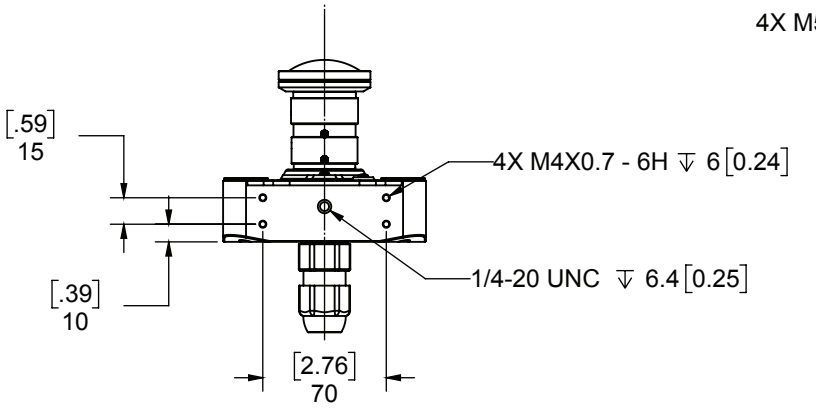


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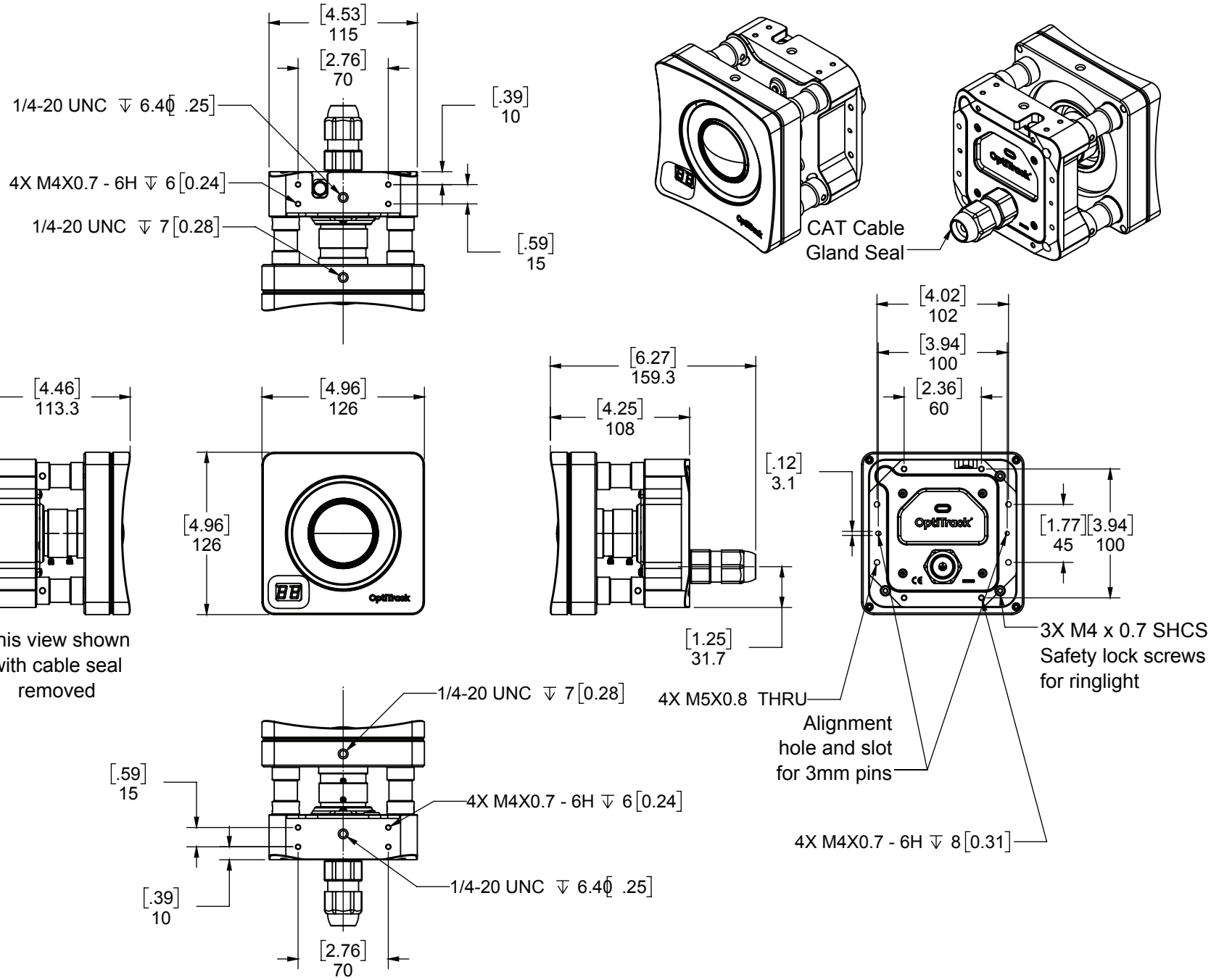






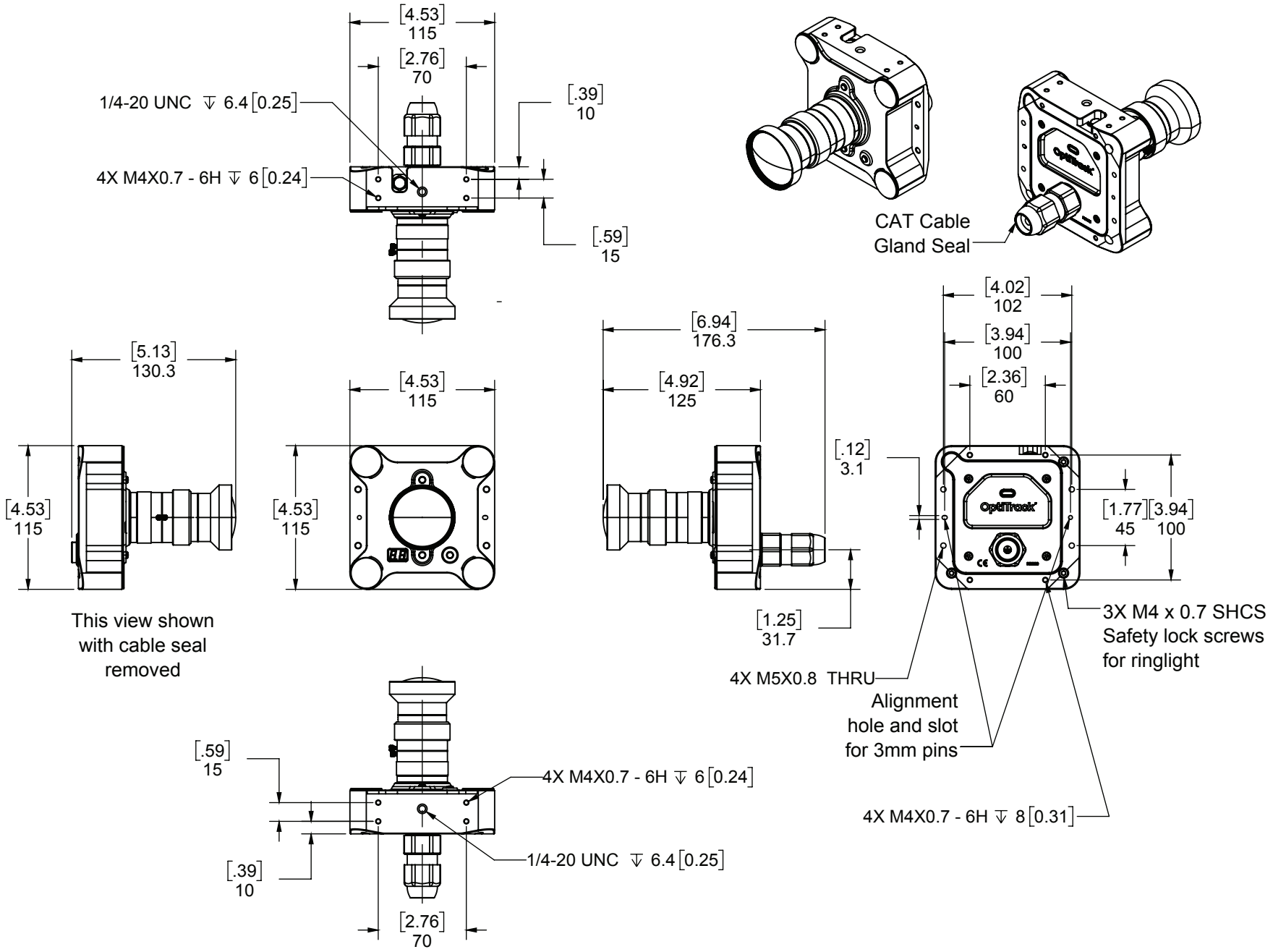
Versa^{X} 22W

Technical Drawings



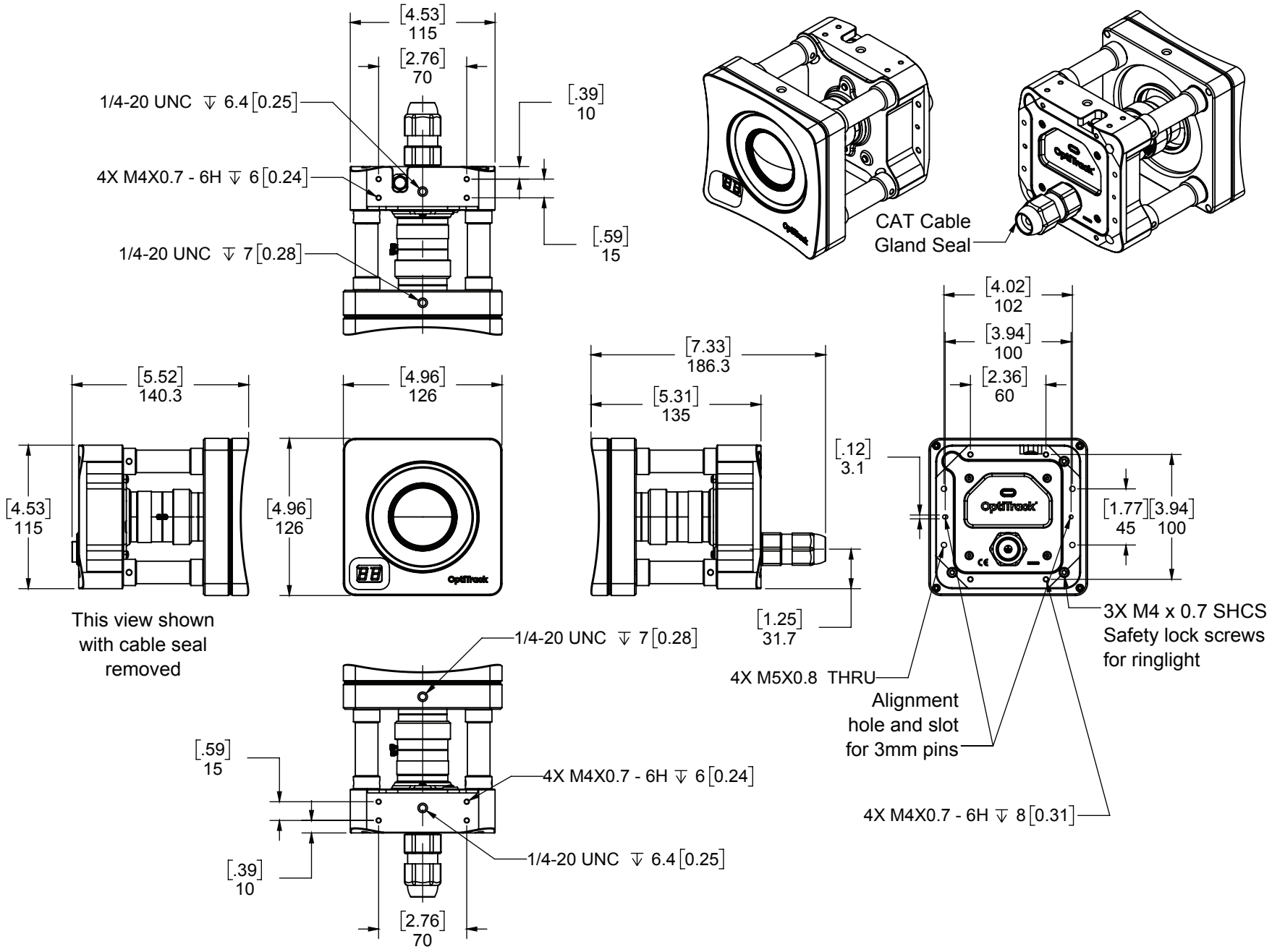
Versa^{X} 41 with 12mm Lens

Technical Drawings



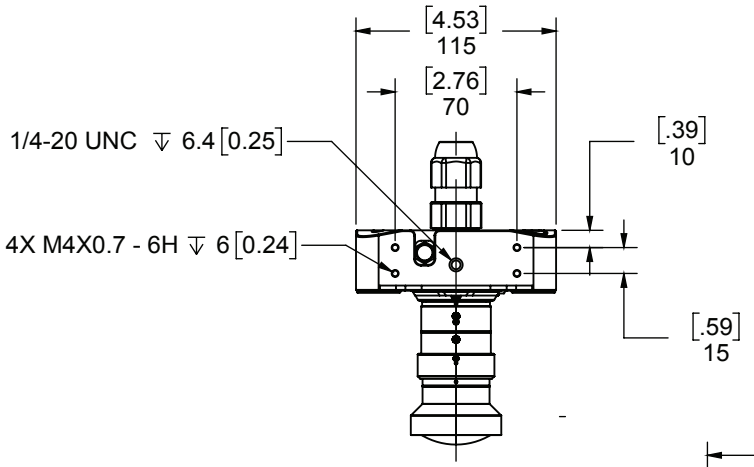
Versa^{X} 41N

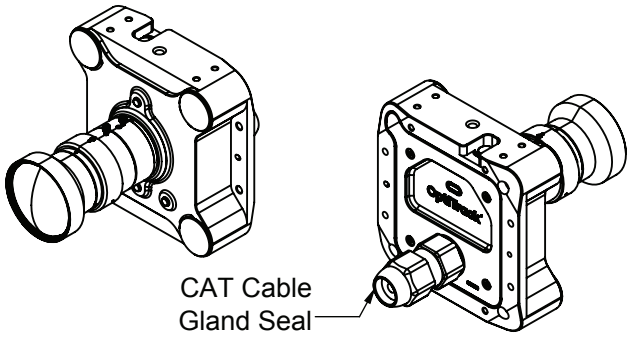
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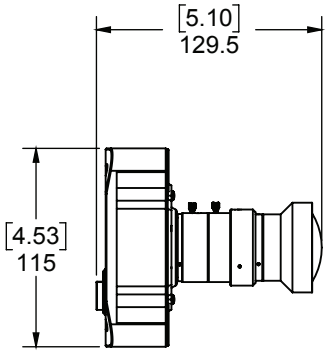


Versa^{x} 41 with 9mm Lens

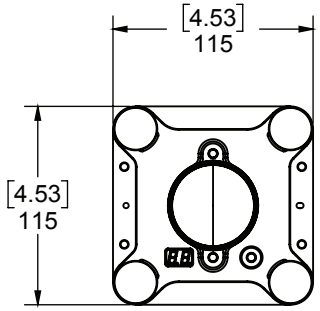
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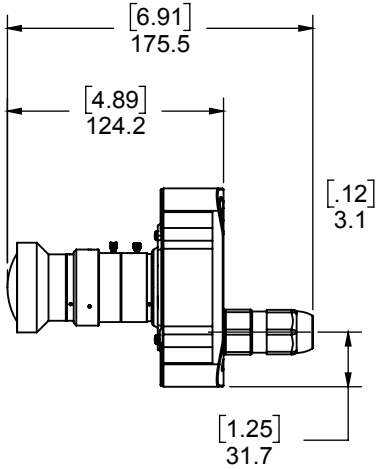


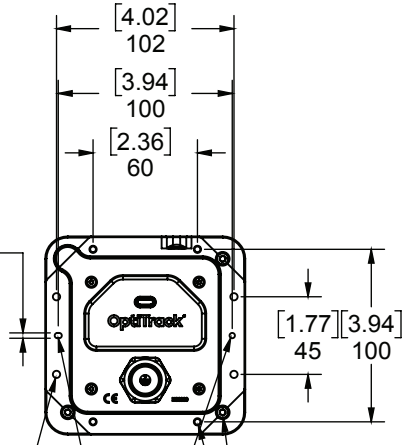


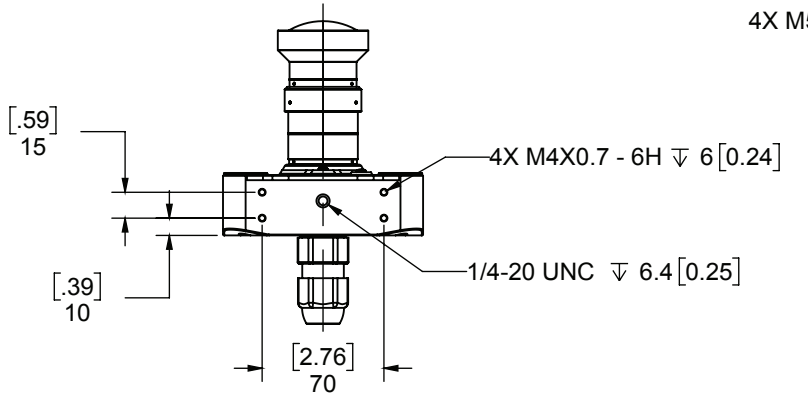


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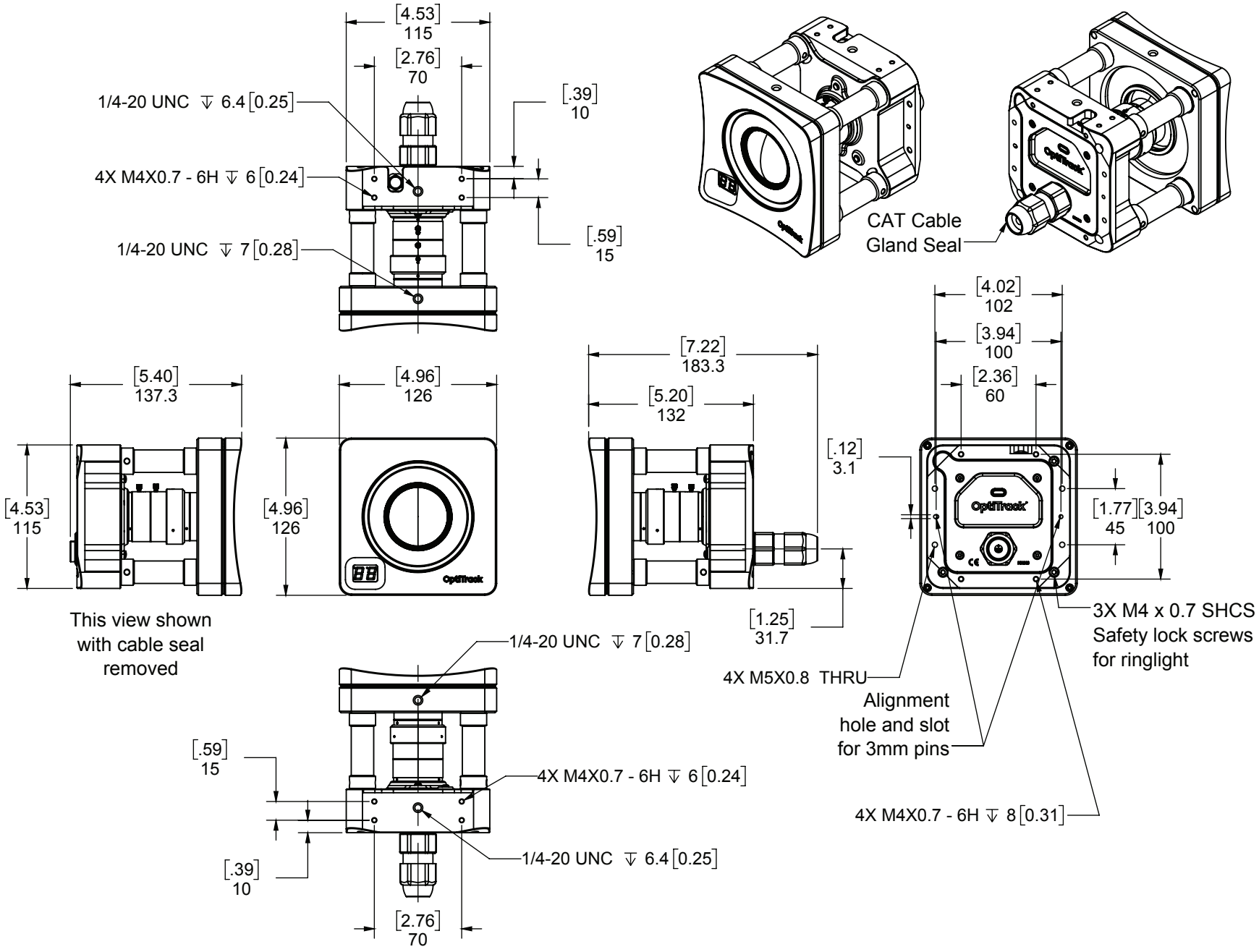






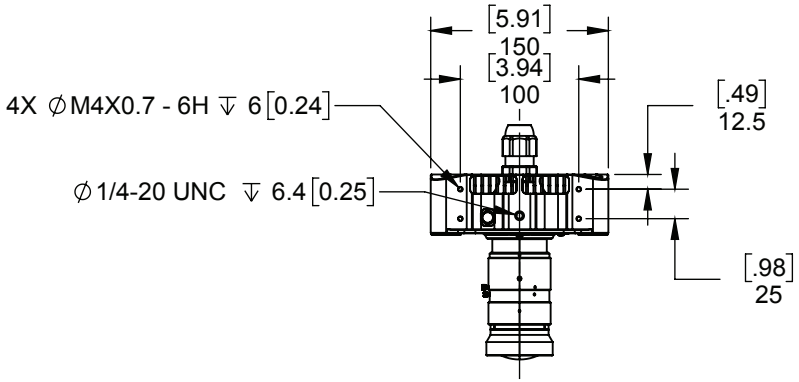
Versa^{x} 41W

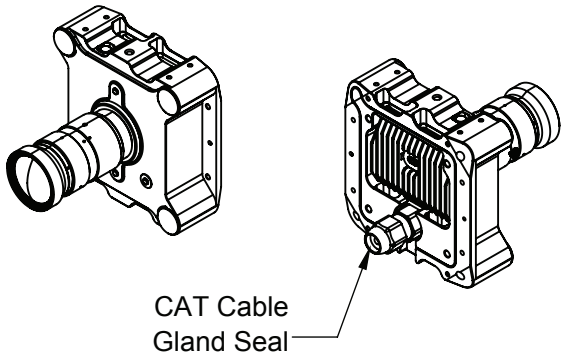
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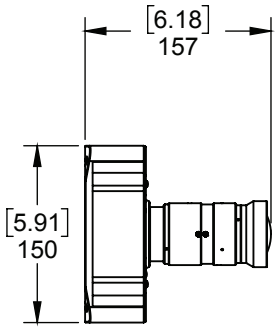


Versa^{X} 120 with 24mm Lens

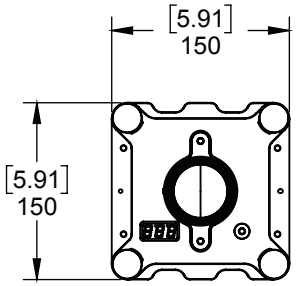
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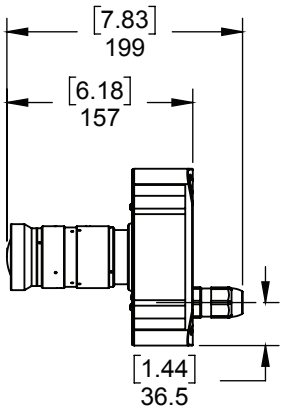


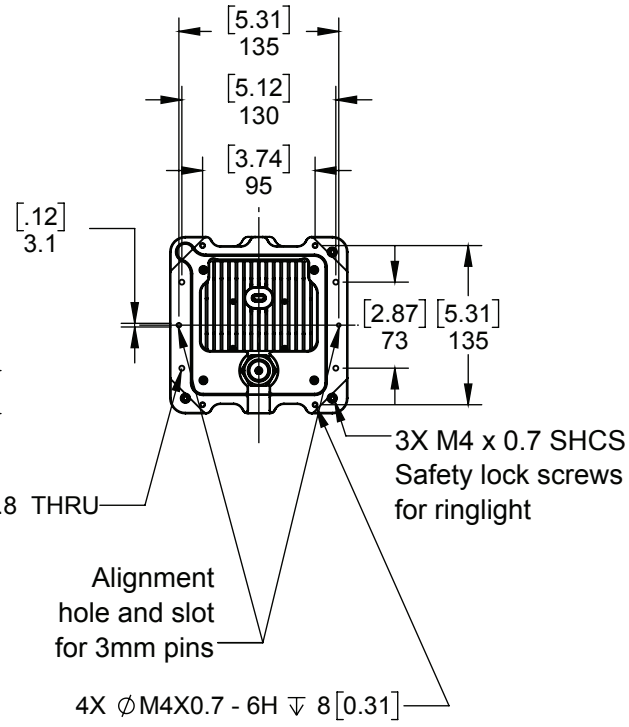


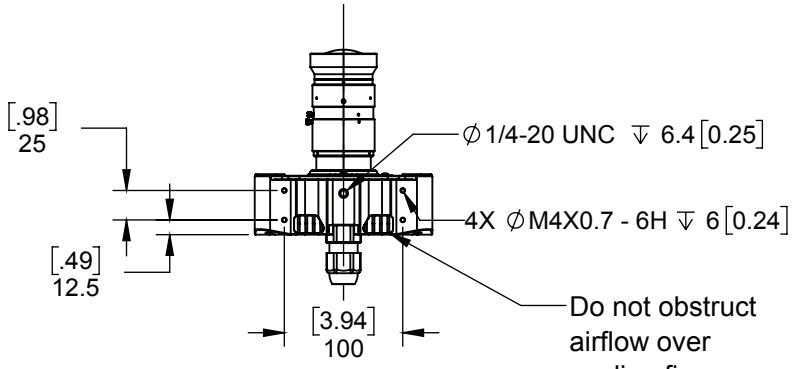


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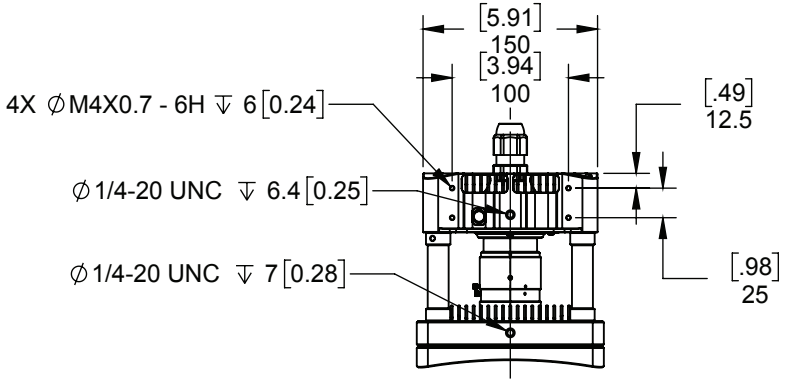


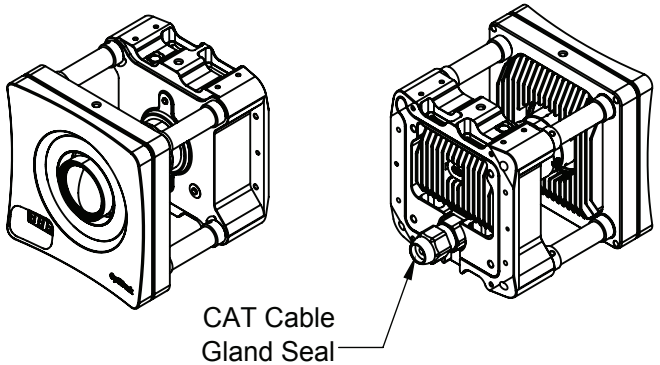


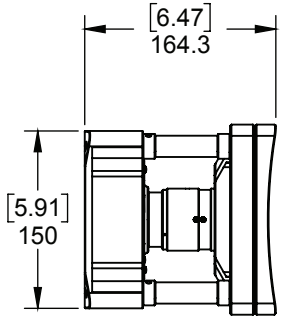


Versa^{X} 120N

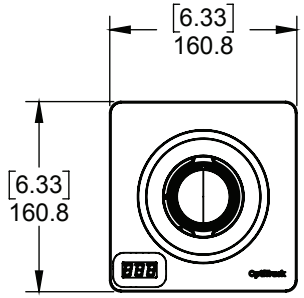
Technical Drawings

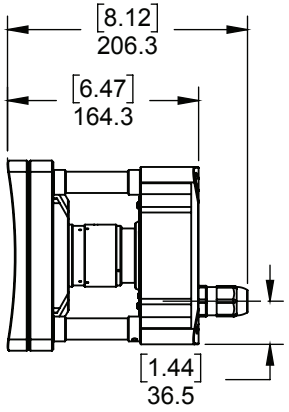


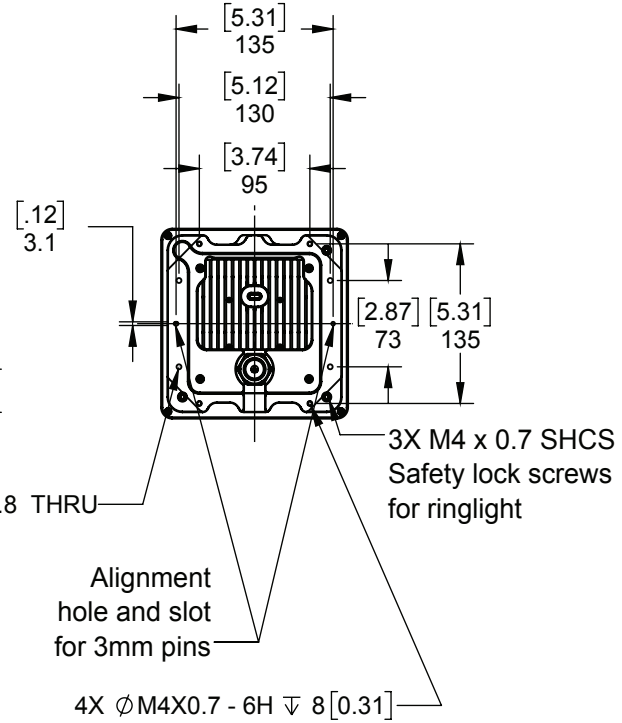


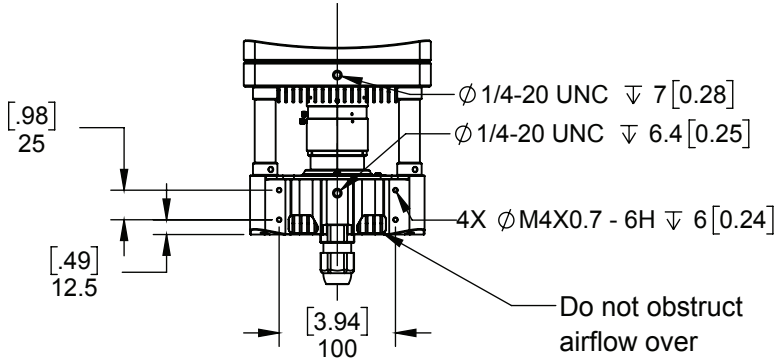


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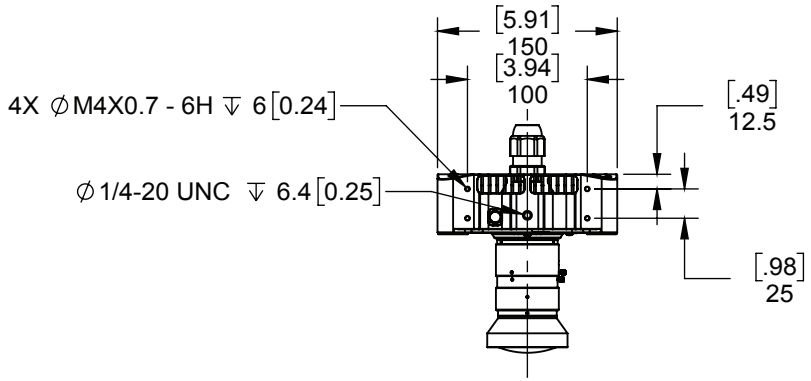


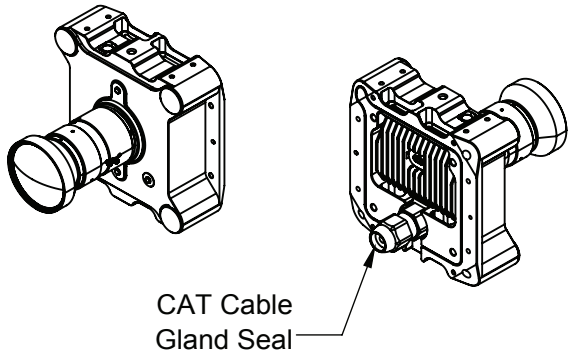


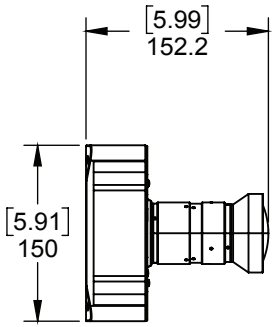


Versa^{X} 120 with 18mm Lens

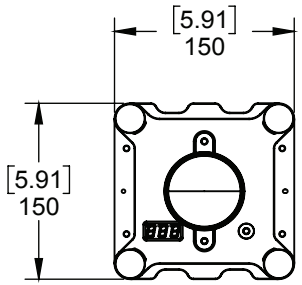
Technical Drawings

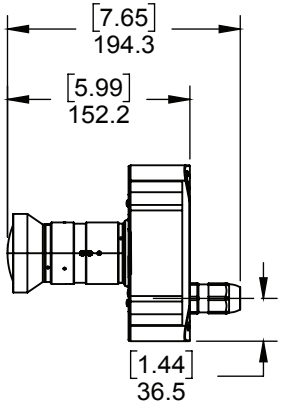


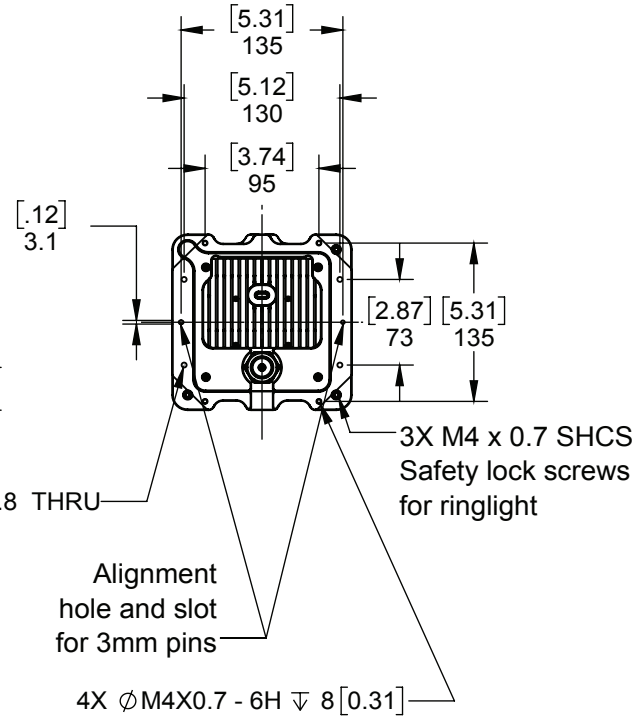


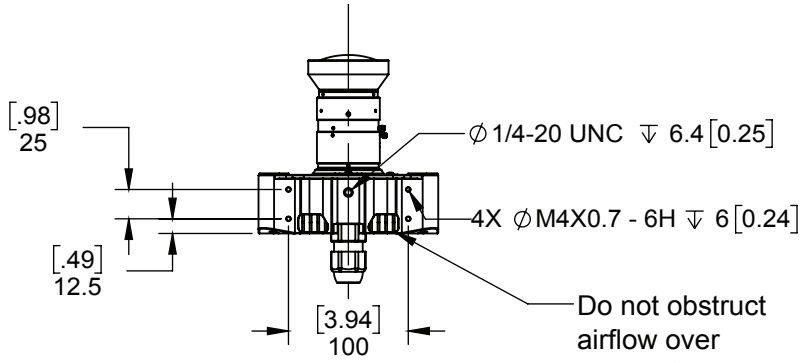


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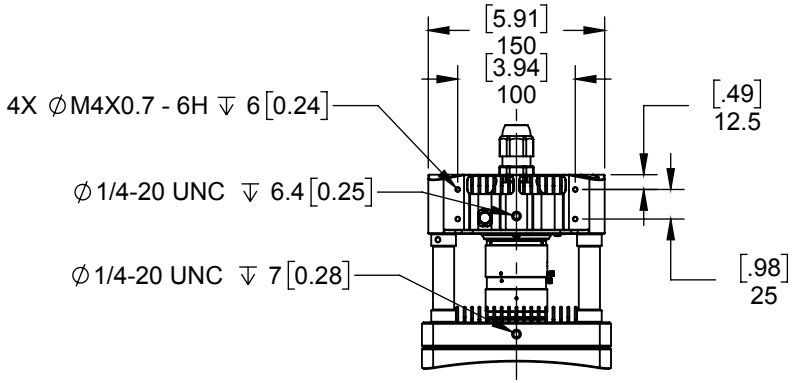


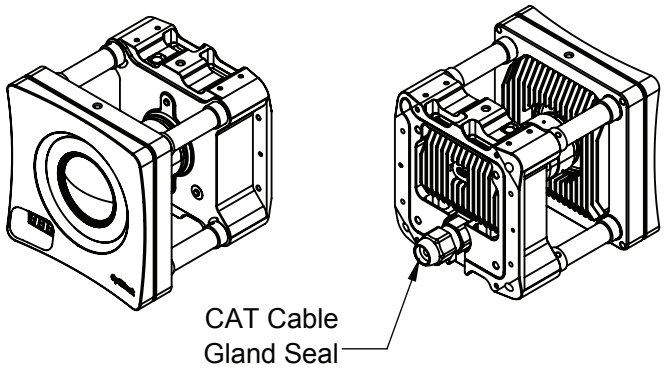


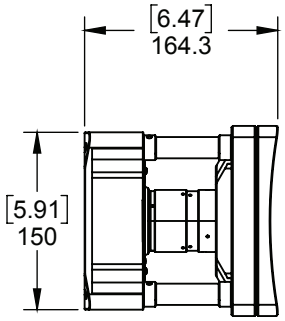


Versa^{x} 120W

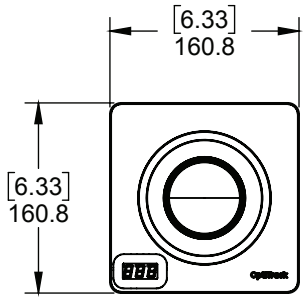
Technical Drawings

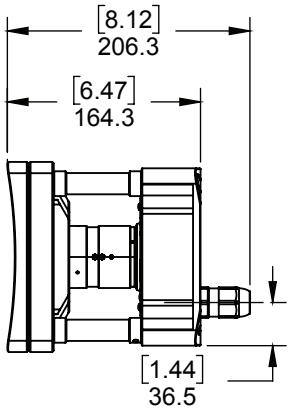


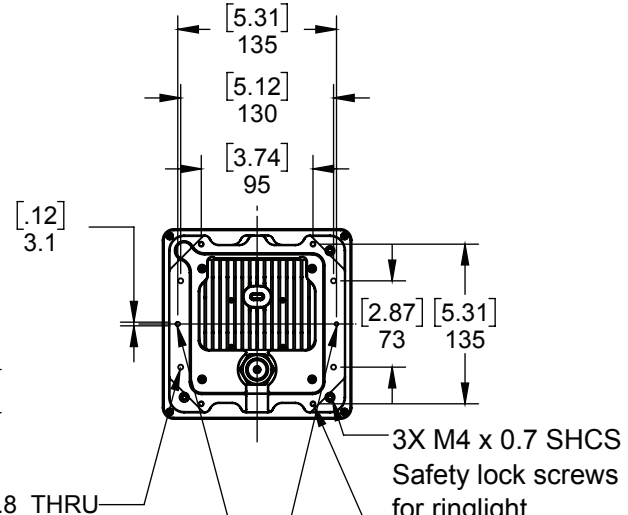


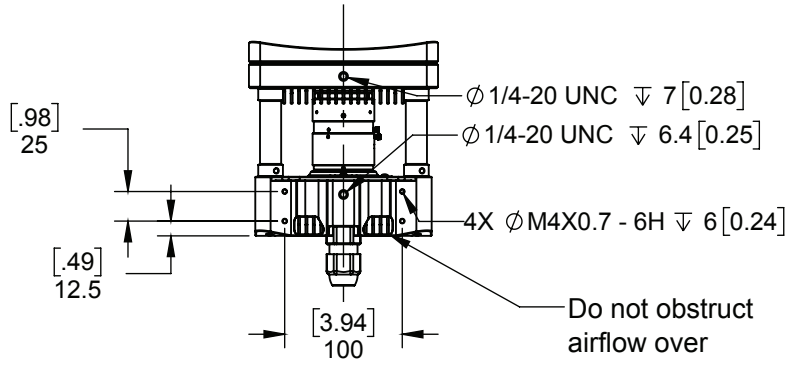


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