

Ultra 4k Smart Camera

VideoRay's latest release in camera technology combines best-in-class image sensing with NVIDIA's intelligent Orin NX processor. With 12 Megapixel resolution and a 200-degree field of view, customers can see more of their surroundings at a higher resolution than ever before. By providing customers with access to both vehicle telemetry and imaging data through our on-board API we are enabling the next generation of autonomy in a form factor that works across all VideoRay vehicles.



Processor

Platform: NVIDIA Jetson Orin NX
Storage: 1TB SSD

Electrical

Input Voltage: 35V-12V
Power: 15 Watts
Video Output: RTSP over Ethernet
Connector: 9 Pin Subconn Connector
Control Method: Software API over UDP

Optical

Sensor: 1/2.3"
Resolution: 4056 (V) x 3040 (H) pixels (max)
Pixel Size: 1.55µm x 1.55µm
Active Pixels: 12.33mp
Lens: Fisheye
Angle of View in Water: Vertical: 185, Horizontal: 150
Pan / Tilt / Zoom: Digital

Mechanical

Housing/Window: Anodized Aluminum / BK7 Glass
Dimensions: L: 154 mm D: 76 mm
(L: 6.062" D: 3.003")
885 g (1.951 lbs)

Weight in Air:
Weight in Water (Fresh / Salt): 523 g / 532 g
(1.152 lbs / 1.172 lbs)

Environmental

Water Depth Rating: 2,000 m (6,562 ft)
Storage Temperature: -20° to 60° C
(-4° to 140° F)
Operating Temperature: -5° to 50° C
(23° to 122° F)

