

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 180-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 submersibles.

Specifications

PROCESSOR

Platform	NVIDIA Jetson Orin NX
Storage	1 TB SSD

ELECTRICAL

Input Voltage	35V-12V
Power	15 Watts
Video Output	RTSP over Ethernet
Connector	9 Pin Subconn Connector
Control Method	Web Interface

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: 180, 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")
Weight in Air	885 g (1.951 lbs)
Weight in Salt / Fresh	523 g / 532 g (1.152 lbs / 1.172 lbs)

ENVIRONMENTAL

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



Part Number: 74687

Key Features

- > Digital Pan, Tilt, and Zoom
- > Auto Exposure Mapped to PTZ
- > Real-Time Color Correction
- > Internal Pressure/Temperature Readouts
- > 4056 (V) x 3040 (H) Recording on Camera
- > Manual Video Balance Adjustments
- > 4056 (V) x 3040 (H) Snapshot Support through Greensea UI
- > 4056 (V) x 3040 (H) Video Stream Topside
- > Gray Level Grouping Image Enhancement
- > Software Updates Through Web
- > Display in Greensea UI at 1620 x 1080 @ 25fps



Mission Specialist Ally shown with Ultra 4k Smart Camera