PRODUCT DATA SHEET

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: 200, Horizontal: 150

Mechanical

Housing/Window:	Anodized Aluminum / BK7 Glass
Dimensions:	L: 6.062" D: 3.003"
Weight in Air:	1.951 lbs
Weight in Water (Fresh/Salt):	1.152 lbs / 1.172 lbs

Environmental

Water Depth Rating:	2km
Storage Temperature:	-20 to +60 degrees C
Operating Temperature:	-5 to +50 degrees C





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