

Ultra 4k

SMART
CAMERA



Mission Specialist'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 vertical/150 horizontal-degree field of view, customers can see more of their surroundings at a higher resolution than ever before.

By providing operators 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 Mission Specialist ROV systems.

Ultra 4k Smart Camera

ULTRA 4K SMART CAMERA

_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
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
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)
IN SALT/FRESH WATER	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)
WATER TEMP	-5° to 50° C (23° to 122° F)



_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 x 3040 snapshot support through Greensea UI
- > 4056 x 3040 video stream topside
- > Gray Level Grouping image enhancement
- > Displays in Greensea UI at 1620 x 1080 @ 25fps

