SIDUS Solutions

SS490 MKII 4K UHD Zoom Camera

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Manufacturer / system supplier: SIDUS Solutions

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Applies to the named models and revision only. Housing, interface and performance differences must follow the individual model tables. Source discrepancies are recorded on the ROVITEC product pages; request the approved specification before integration.

Original manufacturer source

https://www.sidus-solutions.com/wp-content/uploads/2025/11/SSS490mkII_4K_UHD_20X_Zoom_Camera_Specifications-2025.pdf

Manufacturer pages follow unchanged. Local distribution copy.

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SS490MKII ~ 4K UHD 20X Zoom Camera Specifications



The SS490MKII from Sidus Solutions is a high-performance subsea camera system that delivers 4K UHD video quality at a resolution of 3840 x 2160 (QFHD) and up to 29.97 fps. The SS490MKII offers four times the resolution of standard 1080p Full HD, making it ideal for applications requiring detailed imaging under challenging lighting conditions. This combination of high-resolution imaging and versatile connectivity makes the SS490mkII ideal for underwater inspections, marine research, and industrial monitoring.

The SS490MKII features a 20x zoom (12x optical + super resolution zoom) while maintaining full 4K resolution. A combined optical + digital zoom of 144x is possible.

Features

- High Resolution 4K UHD (3840 X 2160 pixels) for ultra clear visuals
- Depth Rated 6000m, and 3000m options
- Equipped with sapphire or acrylic windows for durability and optical clarity
- Frame Rate up to 4k@29.97 fps or 1080p@60fps for smooth video capture
- Advanced Imaging capabilities – fully integrated automatic image processing
    - Provides adaptive noise reduction
    - Enhances visibility in low light or turbid conditions
- Advanced Control Capabilities
    - VISCA over HTTP and ONVIF camera control (interface dependent)
    - Remote pan & tilt and light control supported over ONVIF interfaces
- Flexible Interface Options
    - Streaming PoE IP with H.264 or H.265 compression
- Robust design built for subsea in harsh environments

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OPTICAL SPECIFICATIONS:

Lens Focal Length	20x Optical F=4.4mm to 88mm / F2.0 to F3.8
Zoom	20x Optical / 240x Digital + Optical
Field Of View	47˚ Diagonal in water
Iris Control	Automatic, Manual
Focus Control	Automatic, Manual
Working Distance	6 km to 3 km

ELECTRICAL SPECIFICATIONS:

Resolution	3840 x 2160, 25 or 29.97 fps
Camera Module	1/2.5-type EXmor-R CMOS (8510K pixels)
Minimum Illumination	.75 lx (F1.8, 1/30)
Signal to Noise	<50 dB
Electronic Shutter	1/1 ~ 1/10,000
Sync System	Internal
Power Input	24VDC, 7.5W or PoE
Video Output	IP, HDMI, SDI/ 16:9 or 4:3 (selectable) aspect ratio
Communication	VISCA over HTTP, ONVIF, Pelco D RS485 output
Connector	Customer selectable – Subconn DBH13M is standard

ENVIRONMENTAL SPECIFICATIONS:

Operating Depth	6000 meters (Up to 19,685 feet)
Operating Temperature	-5° C to + 60° C (23° F to 140° F)
Storage Temperature	-20° C to + 60° C (-4° F to 140° F)
Housing Material	Aluminum, Stainless Steel, Titanium, (Other options available)
Window Material	Sapphire or Acrylic

MECHANICAL SPECIFICATIONS:

Dimensions	10.8” (274mm) x 4” (152mm) [not including connector]
Weight in Air	Al: 8.2 lbs, SS: 19.7 lbs, Ti: 14.4 lbs