SIDUS Solutions

TRUK SS474 HDR IP Network Subsea 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/2026/01/SS474-HDR-IP-Network-Subsea-Camera-Datasheet-1.pdf

Manufacturer pages follow unchanged. Local distribution copy.

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TRUK SS474 HDR IP Network Subsea Camera
Assembly Specifications

- Depth Rated 4000m, and 6000m options
- Small, compact, and lightweight
- Low Latency IP Streaming with 24-hour recording capabilities
- Full High Definition (HD) Resolution – 2 Mega Pixel
- High Sensitivity, High Dynamic Range (HDR) – 120 dB, True WDR
- 125° Diagonal Angle of View – No Perceptible Distortion
- On Board Recording – Video and Stills
- Visibility Enhancer ICR (Day and Night)
- Power Over Ethernet (IEEE802.3af) or 8-36VDC Power
- User-friendly configuration, control and update
- Remote camera control via HTTP (web browser) based interface
- Noise reduction algorithm for high frequency and high detail areas
- Simultaneously output three video streams with different resolutions from a single video source
- ONVIF® profile S compliant



OVERVIEW:

The SIDUS SS474 HDR IP network subsea miniature camera delivers crisp, clear full High Definition (HD) resolution video images at 30 fps with low latency (200mS typical). This camera delivers excellent video image quality under demanding lighting conditions. The rectilinear lens produces a wide-angle view of 125º with no perceptible distortion (2%).

The leading-edge technology of the SS474 High Dynamic Range IP network camera is ideal for applications where the clearest and highest-quality image is required in a compact form factor. This multi-function, mini, lightweight, high-dynamic-range, high-resolution camera is fully integrated with automatic image processing, providing automatic exposure, automatic white balance, adaptive noise reduction, and visibility enhancement.

More than 24 hours of the highest quality HD video can be recorded internally, depending on motion content and image complexity. Numerous additional manual adjustments are also supported via the web browser interface or third-party ONVIF control software.

The SS474 HDR IP is rated for operating depths of 4,000m standard, and 11,000m (optional), utilizing Delrin®, aluminum, or titanium housings and borosilicate domed ports. Other materials are available for custom ordering.

The SS474 HDR IP uses very low power (1.6W typical) PoE with automatic switchover to an 8 36V DC power supply.

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OPTICAL SPECIFICATIONS:

Lens	1.7mm, F/2.4
Focus	Fixed, 50mm ~ infinity
FOV in Water	125° D x 110° H x 80° V

IMAGE SPECIFICATIONS:

Image Sensor	1/2.7” CMOS, progressive scan
Sensor Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768m, 640x480, 320x240
Faceplate Illumination	0.0015lux
Minimum Illumination	0.05 lux, f2.4, 1/20 sec Sense-Up Off
Dynamic Range	120dB, True WDR
Noise Reduction	2D DNR, 3D DNR, HDR
Electric Shutter	Auto (1/30 ~ 1/30,000), Suppress Rolling, Manual
Color Adjust	Bright / Contrast / Saturation / Sharp / Hue
White Balance	Auto (Indoor) / Auto (Outdoor) / Push / User
Signal to Noise	52dB
OSD Display	Text, Date, Time, Event, On/Off SMTP Time Server Supported
Image Mirror	Normal / Mirror (H) / Flip (V) / Both (HV)

ENVIRONMENTAL SPECIFICATIONS:

Depth Rating	4000 meters 6000 meters (Optional)
Operating Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature	-20°C to +70°C (-4°F to 158°F)



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INTERFACE SPECIFICATIONS:

Supported Protocols	TCP/IP, UDP/IP, IPv4/v6, RTP, RTSP, RTCP, HTTP, HTTPS, FTP, DHCP, UPnP, ARP, ONVIF
Interface	Web Browser
Video Compression	H.264, MJPEG
Bit Rate Control	VBR, CBR
Bit Rate	H.264, 1~20 Mbps MJPEG: 1~50 Mbps
Latency	H.264: 200 mS Typical MPEG N/A
Video Streaming	Three Simultaneous Streams: 2x H.264 + 1x MJPEG Independent Frame Rate & Bandwidth Control
Max Frame Rate	30 FPS
Integrated Recording	HD MPEG Video, HD JPEG Stills
Onboard Memory	256 GB (SDHC)
Configuration Settings	Internet Explorer 11 or Above (Active X), ONVIF

ELECTRICAL SPECIFICATIONS:

Voltage	Power Over Ethernet (IEEE802.3af) Automatic Switchover to 8~36VDC when connected
Power	1.6W Typical, 2W Maximum
Faceplate Illumination	0.0015 lux

CONNECTOR:

Default	Subconn DBH8M

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MECHANICAL SPECIFICATIONS:

Housing	6000m—Titanium (Standard) 4000m—Anodized Aluminum
Port	BK7 Glass
Outer Diameter—Port	Ø2.75” [69.9mm]
Outer Diameter—Housing Tube	Ø1.35” [34.4mm]
Overall Length—PoE + DC Power **(DC Power Only)**	8.87” [225.3mm] 7.16” [181.9mm]
Weight in Air—PoE + DC Power **(DC Power Only)**	1.71 lbs [875g] 1.32 lbs [600g]
Weight in Water—PoE + DC Power **(DC Power Only)**	1.61 lbs [730g] 1.26 lbs [575g]





DESIGN:

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