SIDUS Solutions

SS400 HDR IP Color 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/2024/01/SS400_HDR_IP_Color_Camera_Specifications_2025.pdf

Manufacturer pages follow unchanged. Local distribution copy.

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SS400IP ~ HDR IP Color Camera Specifications



Sidus Solutions' SS400IP HDR IP Network camera is a lightweight and compact IP network camera with a max streaming resolution of 1080p@30fps. With ONVIF support and RTSP streaming, the H.264 stream is simple to integrate into existing systems. It employs a 2MP color image sensor that has a 1/2.7" CMOS Progressive Scan imaging sensor designed to be noise-reducing. This impressive high-resolution model presents video images with a wide dynamic range.

The lens is a standard 1.8 mm that offers 83° Diagonal AOV in water (Flat Port). Factory presets include white balance, shutter speed, day and night function, AGC, image inversion and color. The durable acetal housing is corrosion-resistant and will provide years of quality service. Other housing options are available to best suit the clients' needs such as anodized aluminum, stainless steel, and titanium.

Standardized IP streaming format allows for integration onto any automated platform or vehicle. Dome and flat port configurations allow for deployments on a variety of installations. The SS400IP has been used on ROV's, unmanned surface vehicles, shoreline inspection vehicles, automated submersibles, and many more.

Features

- 83° Underwater Diagonal Angle of View (Flat Port)
- Lightweight, Low Latency IP Streaming
- Full HD Resolution / 2 Mega Pixels
- 24+ Hour Recording
- High Sensitivity, High Dynamic Range (HDR) Video
- ONVIF Compatible
- Power over Ethernet or 12-24 VDC Power
- Depth Rating: 500m

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OPTICAL SPECIFICATIONS:

Lens	1.8mm, F/2.4
Focus	Fixed, 50mm ~infinity
FOV in Water	83º D x 75º H x 57º V (Flat Port)

VIDEO SPECIFICATIONS:

Camera Module	1/2.7” CMOS Progressive Scan, 2MP
Sensor Resolution	1920x1080, 1280×1024, 1280×960, 1280×720, 1024×768, 640×480, 320×240
Faceplate Illumination	0.0015 lux
Minimum Illumination	0.05 lux, f/2.4, 1/30 sec Sense-UP Off
Dynamic Range	120dB, True WDR
Noise Reduction	2D DNR, 3D DNR, HDR
Electronic Shutter	Auto (1/30~1/30,000), Suppress Rolling, Manual
Color Adjust	Bright / Contrast / Saturation / Sharp / Hue
White Balance	Auto (Indoor & 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	500 meters
Operating Temperature	0°C to +50°C (32°F to 122°F)
Storage Temperature	-20°C to +70°C (-4°F to 158°F)

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), (512 GB Optional)
Configuration Settings	Google Chrome Browser, Internet Explorer 11 or Above (Active X), ONVIF Profile S

ELECTRICAL SPECIFICATIONS:

Voltage	Power Over Ethernet (IEEE802.3af) or 8~36VDC Power Supply
Power	1.6W Typical, 2W Maximum

MECHANICAL SPECIFICATIONS:

Housing	Anodized Aluminum
Port	Sapphire (flat port), Bk7 (Dome Port)
Outer Diameter - Port	Ø1.50” [38.1mm]
Outer Diameter – Housing Tube	Ø1.50” [38.1mm]
Overall Length – PoE + DC Power (DC Power only)	8.11” [205.99mm] / 6.52” [165.60mm]
Weight in Air – PoE + DC Power (DC Power Only)	0.77 lbs [352g] / 0.66 lbs [299g]
Weight in Water – PoE + DC Power (DC Power Only)	0.47 lbs [214g] / 0.41 lbs [186g]

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CONNECTOR:

Default Subconn DBH8M

DESIGN:

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