SIDUS Solutions

SS425 / SS430 / SS435 — Subsea cameras

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Manufacturer / system supplier: SIDUS Solutions

Document type: manufacturer specification

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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/SS425-High-Resolution-Optically-Corrected-Low-Light-BW-Camera-Datasheet.pdf

Manufacturer pages follow unchanged. Local distribution copy.

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SS425 Series ~ High Resolution, Optically Corrected Low Light B&W Camera

Assembly Specifications



- High Resolution
- Low Light Sensitive
- Depth Rated 3000 meters
- Video Output: EIA or CCIR
- Automatic Iris Control
- Resolutions: 570TVL
- Minimum Illumination:
    - o -0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF)
    - o 0.000007 lx F1.2 (AGC HIGH=72dB, Shutter=x15)

OVERVIEW:

SIDUS Solutions' SS425 Series of cameras is a high resolution, low-light sensitive, black & white underwater camera system enabling visibility in conditions with a minimum illumination of 0.0001 lux.

The camera system was upgraded because of breakthroughs in low-light camera technology. Video output can be provided in EIA or CCIR formats. The SS425 is built for tough, long-term industrial deepwater use.

Item Description	Material	Depth Rating
SS425	Anodized 6061-T6 Aluminum	3000 meters
SS430	Stainless Steel	3000 meters
SS435	Titanium	3000 meters

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OPTICAL SPECIFICATIONS:

Camera Module	1/2.8 –inch BSI CMOS image sensor
Number of Effective Pixels	1935(H) x 1097(V)
Video Output	Composite: 1.0 V (p-p) 75 Ohm Unbalanced
Resolutions	570TVL (EIA/CCIR)
S/N Ratio	Greater than 45dB (AGC Off)

ENVIRONMENTAL SPECIFICATIONS:

Storage Temperature	-20° C to +60° C
Operating Temperature	-10° C to 50° C
Input Power	12 to 24VDC
Input Current	400mA Max
Lens Focal Length	4-12mm
Angle of View	108° (D) X 89° (H) x 69° (V) in water
Object Distance	20cm to infinity
Iris Control	Automatic
Focus	Fixed

MECHANICAL SPECIFICATIONS:

Housing	Anodized 6061-T6 Aluminum
Window	Acrylic Corrected Port
Weight	5.5 lbs (2.5kg) in air 2.0 lbs (0.9kg) in water
Dimensions	3.94” (Diameter) x 7.7” (Length) x 4.63” (Diameter) Bezel (without connector)
Connector	Subconn Standard, Customer Selectable
Operating Depth	3000 meters
Minimum Illumination	0.0001 lx F1.4 (AGC HIGH=72dB, Shutter=OFF) 0.000007 lx F1.2 (AGC HIGH=72dB, Shutter=x15)

DESIGN:

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