

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



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:

The information contained in this drawing is the sole property of SIDUS Solutions. Any reproduction in part or without the written permission of SIDUS Solutions is prohibited.

Specifications subject to change without notice and products described herein are subject to specific disclaimer.

<https://www.sidus-solutions.com/support-resources/legal-disclaimer/>

