SIDUS Solutions

SS435 Low-Light Optically Corrected B&W Camera

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Manufacturer / system supplier: SIDUS Solutions

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Historical model-specific mechanical reference. Current shared imaging/electrical values are in the November 2025 SS425/430/435 family sheet. Do not mix historical electronics and current camera specifications.

Original manufacturer source

https://www.sidus-solutions.com/wp-content/uploads/2024/02/SS435-Datasheet.pdf

Manufacturer pages follow unchanged. Local distribution copy.

SIDUS



Professional Solutions for Hazardous Area & Subsea Systems

SS435 High Resolution Titanium Low Light B&W Camera



Sidus Solutions' SS435 is a high resolution, low light sensitive black & white underwater camera system enabling visibility in conditions with a minimum illumination of 0.0001lux. The system was upgraded as a result of breakthroughs in low light camera technology. Video output can be provided in EIA or CCIR formats and can be delivered over an internal, remotely adjustable long-line amplifier. The SS435 has been designed to handle the demands of the most rigorous and prolonged industrial deepwater applications.

Specifications

Camera module	½" Interline transfer CCD image sensor
Number of total pixels	811(H) X 508(V)
Sync system	Internal
Video output	1Vp-p 75 Ω
Resolution	570 TV Lines
Minimum illumination	0.0001 Lux (F1.4)
S/N ratio	50dB - AGC off
Lens focal length	3.8 mm
Angle of view	108° (D) X 89° (H) X 69° (V) in water
Object distance	20cm ~ infinity
Iris Control	Automatic
Focus Control	Automatic
Housing material	Titanium 6Al4V
Dimensions	3.38" Dia. x 7.90 long x 4.63" Dia. bezel (w/o connector)
Weight	6.5 lbs/3.0 kg (in air) - 3.0 lbs/1.3 kg (in water)
Operating depth	10,000 feet/3000 meters 20,000 feet/6000 meters (optional)
Storage temperature	-20˚ C ~ +60˚ C
Operating temperature	-10˚ ~ +50 ˚ C
Input power	12 to 26 VDC - 300mA

Design and Specifications are subject to change.

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