SIDUS Solutions

SS403 Compact B&W Low-Light 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/2024/02/SS403-Datasheet-September-20122-1.pdf

Manufacturer pages follow unchanged. Local distribution copy.



Professional Solutions for Hazardous Areas & Subsea Systems

SS403 Compact B/W Low Light Deep Sea Camera



Sidus Solutions' SS403 is a compact black and white camera designed for harsh low light conditions. It employs a 420 TVL color module that has a 1/3" Sony ExView HAD CCD imaging sensor. ExView sensors improve light sensitivity by a factor of four at near infared wavelengths making this camera ideal for deep sea tasks. Video output is provided in EIA or CCIR formats. The lens is a standard 3.6 mm that offers 92° FOV in air. Also available are 2.9 mm, 6 mm, and 8 mm. Other available options are customer selected connectors and input voltage options. Back light compensation and gain control are automatic. The aluminum alloy makes a lightweight and durable housing rated to 3000 meters.

Specifications

Electrical

Horizontal Resolution	420 TV Lines (EIA or CCIR)
Sensitivity	.0003 lux / FacePlate
Sensor Type	1/3" Sony ExView HAD CCD
Signal to Noise	>48dB (AGC Off)
Power Input	9-36 VDC / 120mA (max)
Video Output	1.0 Vp-p, 75 ohm
Connector	Customer selectable - 4 pin male(MCBH4) standard

Environmental

Optical Depth	3000 meters (10,000 feet)
Temperature Range	-10° C to +50° C (+14°F to +122 F°) operating -20° C to +60°C (-4°F to +140°F) storage
Housing Material	Aluminum 6061-T6 Anodized - Ti, and SS options available
Window Material	Optical grade acrylic - Sapphire windows available
O-ring Material	Buna

Optical

Lens	2.9 mm	3.6 mm	6 mm	8 mm
Diagonal FOV (air / water)	130° / 98°	92° / 69°	53° / 40°	40° / 30°
Min. Working Distance in Water	8"	12"	24"	37"
Iris Control	Fixed			
Focus Control	Fixed			

Mechanical

Dimensions	1.5" in diameter x 5.3" length (38 mm x 135 mm)
Weight in Air	15 oz (.43 kg)
Weight in Water	5 oz (.14 kg)

Design and Specifications are subject to change without notification (Sept/2012).

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