Subsea Miniature Camera (MC1)

This is the world's smallest 3000m rated subsea camera. The Miniature Camera (MC1) offers a high performance product at an affordable cost and combines superb sensitivity, resolution and dynamic versatility, allowing it to be used by clients in a wide variety of subsea applications.

The dimensions of the MC1 are only 10 mm (D) x 42 mm (L); however, it provides a high performance and offers a full colour, 60 frames per seconds and high resolution 720(H) x 576(V) pixels. The unit is contained in a robust housing that can withstand water depths well beyond 3000m. For low light applications the MC1 is available with built-in LED lighting. The system is thus able to be used to perform inspection on key spots where other cameras cannot reach and provides the maximum flexibility for inspection of internal and external underwater facilities. This MC1 is highly suited to applications that may require extremely low power consumption e.g. for AUVs or a permanent subsea installation, requiring only 3V at 110mA. In addition, the MC1 may be used with SLD image enhancement software to produce higher quality imaging.

In addition to the high specifications of the MC1, SLD has developed image enhancement software to generate crispy high quality imaging, even at worse possible subsea environment that will work with the MC1.

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Technical Specifications

Signal System	NTSC/ PAL
Image Sensor	1/5” VGA Color CMOS
Effective Pixels	720 X 576
Max. Frame Rate	60 (@27MHz in NTSC)/ 50 (@27MHz in Pal)
S/N Ratio	≥52dB
Standard layout	FOV=60° F3.0/ 2.47mm with
Video Output	1.0Vp-p 75Ω
Power Consumption	DC: Up to 5V, 60mA (Without LED)
Dimensions	7mm(D) x 26mm (L) Housing: 10mm (D) x 42mm (L)
Operating Temperature	-30°Cto 70°C
Operating depth	3000m
Minimum Illumination	0.1 Lux/ F2.0
Focus	Manually Adjustable
Connectors	5 Pin Micro Connector

Features

- **Small in size with large resolution to small ratio**
- **Very flexible in terms of its ability because of its size**
- **Fully compatible to any composite output**
- **Low power consumption**
- **Alterable lens**

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