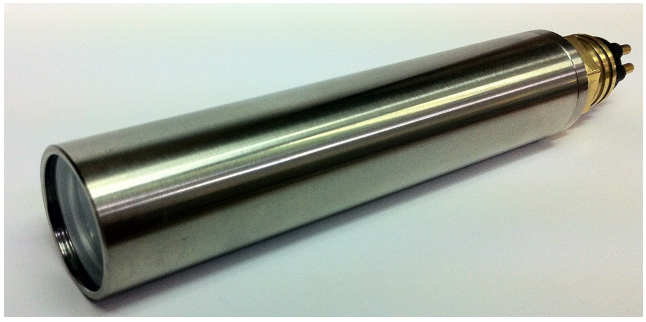
EXTREME ENVIRONMENT EQUIPMENT TECHNOLOGY

DATA SHEET
RAYCAM-004SS
Miniature Standard Definition Underwater Video Camera



CCD Module

Signal Format:	PAL
Total Pixels Number:	795(H) x 596(V) 470K
Effective Pixel Number:	752(H) x 582(V) 440k
Pick Up Device:	1/3 Type Super HAD CCD II (Sony)
Scanning system:	2:1 Interlace
Sync System:	Internal
Scanning frequency:	50Hz (VD)
Horizontal Resolution:	560 Lines
S/N Ratio:	More than 50dB (AGC Off)
Video Output:	Amplitude Adjusted 1 to 2Vp-p ; High Frequency Compensation Selectable.
Min. Illumination:	0.1Lux/F2.0 (0.0002 Lux Sense Up x 256)
Operating Temperature:	-10ºC TO 50ºC
Lens Type:	f3.7 , 4.3mm
Power Source:	14 to 32Vdc 120mA

OSD Options

Exposure:	ALC, ESC
Brightness:	Adjustable
Shutter Speed;	1/60(1/50) , A.FLk. 1/250˜1/12000,FIX x12˜x2
White Balance:	AWB, ATW, AWC-PUSH, Manual
Backlight Compensation:	Off ,DRC ,BLC ,HLM
Automatic Gain Control:	Off, On, (Low, Middle, High)
3-DNR:	0 – 6 Steps
Sense Up:	Off, x2 – 256
Day/Night:	Auto, Ext, Colour, B/W
Image:	Off, Mirror, Flip, Digital Zoom, Sharpness, Saturation.

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Mechanical Specifications

Outside Dimensions:	25.4mmØ
Length:	150mm including underwater connectors
Depth Rating:	2000msw
Veiwing port:	Water corrected CR30
Material:	316L Stainless Steel

Electrical Specifications

Underwater Connector: MCBH-4-MP/SS

Pin Outs

1 - Screen/0vdc
2 - Video
3 - +24vdc
4 - OSD/RS485+