



Precision Subsea Electronics Ltd

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Sphere Camera

Our best selling product, compact, durable and reliable.

These high specification subsea cameras offer continuous rotational control on both horizontal and vertical axes allowing unrestricted views within their environment.

High Spec analog or High Definition video sensors are incorporated in the compact housing along with integrated LED lights, Depth and Temperature sensors as standard. Pan / tilt Control is typically via RS 485 but can be modified for any protocol, sensor data is also to suit user systems and on screen display.

All our cameras are interchangeable using existing cables and are operable with the Wireless Camera System or Portable System.

We regularly customise products for clients to meet specific needs and continually update product design and specification to meet challenges experienced when using our products in the field.



Please contact us for more information or to discuss requirements.

Specification

All Models	
Pressure	Rated to 100 metres
Housing Material	Acetal and Bronze
Dimension	180mm Diameter
Weight (in air)	4kg
Data Control and Output Sensor	RS232 / RS485
Pan / Tilt Control	RS 485 (or user specified)
Connection Type	Birns BH8M
Water Temperature	Unit: °C Resolution: 0.1°
Depth Sensor	Unit: m Resolution: 10cm
Lights	Variable Brightness (Max 2 x 200 Lumens)

Option - X Y Sensors	
Magnetic Compass Sensor	Horizontal Orientation of Camera
Units	degrees relative to magnetic north
Camera Angle Sensor	Vertical Orientation of Camera
Units	measured elevation angle of camera in degrees

Camera Specifications	Comp	Hi def
Lens	4.3mm 78° Angle of View	3M 3.6mm Fixed Board Lens
Sensor	1/3" Sony HQ1 Ex-view HAD CCD	1/2.9" Sony 2.3M CMOS Sensor
Resolution	550 TVL	AHD 1080P@30/25fps
Total Pixels		2000(H) X 1121(V) approx. 2.24M Pixels
Effective Pixels	PAL / CCIR 752 (H) x 582 (V)	1984(H) X 1105(V) approx. 2.19M Pixels
Shutter Speed	1/50 ~1/100,000	Auto / Manual (1/30(1/25) ~ 1/60,000) / Flicker
Min Illumination	0.1 Lux at F2.0	Colour DSS: 0.002 Lux / BW DSS : 0.001 Lux
S/N Ratio	>50dB (AGC OFF)	≥80dB
SENS Up		x2 / x4 / x8 / x16 / x32
Day & Night	Colour to B&W @4-5 Lux 850nm IR Sensitive	Auto / COLOUR / B&W / EXT
White Balance	Auto / Manual (2100°K ~ 9100°K)	Auto / Auto Ext / Preset / Manual
Mirror	no	Off / H / V / H&V
D-Zoom	no	x1 ~ x8
DNR (Digital Noise Reduction) (3D + 2D)	Yes	Off / Low / Middle / High
DEFOG		Off / On
Wide Dynamic Range D-WDR / BLC / HLC	Yes	Off / WDR(Low / Middle / High) / BLC / HLC
Coaxial Communication	N/A	Pelco-C Protocol or OSD Control
Language	N/A	ENG, GER, FRA, ITA, SPA, POL, RUS, POR, NED, TUR
Video Output	Composite	AHD. CVBS

Accessory - Dissolved Oxygen Sensor	
Units	mg per Litre or Parts Per Million Dissolved

Other System Parts	
Subsea Cables	Copper or Fibre optic
Surface to Shore	Fibre Optic or Wifi
Positioning Winch	Compact Winch or Dual Winch
Power options	Wind Turbine, Solar, Portable System
Portable Control and Monitoring	Portable System