

Features

- 3D (stereoscopic) Imaging
- High Resolution
- 650 TVL Colour
- 700 TVL Monochrome
- 4,000 or 6,000 Metre Rated Titanium Housing
- Compact (109x102x49mm)



Description

The Bowtech Products 3D-SD high resolution stereoscopic underwater camera incorporates two CCD sensors, configured within a single compact underwater housing, for standard definition stereoscopic imaging. The 3D-SD transmits left and right standard composite analogue video signals (PAL/NTSC), on a single connector, allowing straight forward connection to the majority of ROV and underwater imaging systems.

On the surface, the left and right composite video signals are input to the Bowtech Products 3D-SD surface control unit, which is contained within a 19" rack enclosure. The 3D-SD control unit can be configured to allow connection to a variety of professional and consumer 3D display types.

The Bowtech Products 3D-SD utilises the proven core imaging technologies, found within our highly acclaimed professional tooling cameras, providing 650 TVL (colour), or 700 TVL (mono) of image resolution per eye. The 3D-SD is housed in grade 5 titanium housing, with sapphire glass windows, which is already proven in the field in terms of high quality and ruggedness.

The 3D-SD can be fitted with a wide array of underwater connectors, to allow easy integration to any PAL/NTSC composite video system.





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Specification - 3D-SD

ELECTRICAL

Resolution, Horizontal: Limiting Light Sensitivity:

Sensor Type:

Sensor Elements: Signal to Noise Ratio:

Scanning: Voltage:

Current:

Composite Video Output: Electro-magnetic Compatibility:

MTBF:

OPTICAL

Lens: Iris: Focus:

Convergence: Angle of View:

Window:

ENVIRONMENTAL

Water Depth: Storage Temperature:

Operating Temperature: Shock 3 Axis (operating):

MECHANICAL

Dimensions:

Weight in Water:

Standard Connectors:

Optional Connectors:

Colour

650 TV Lines 0.1 Lux @ f2.0

1/3" (Sony) EX-View HAD CCD

10 Bit Digital Processing

752 (H) x 582 (V) PAL, 768 (H) x 494 (V) NTSC

>52dB

625 Line 50Hz PAL, 525 Line 60Hz NTSC

12 to 24Vdc 260mA Maximum

1.0V pk-pk

EN50081-1 Emission/EN500852-1 Immunity

80,000 hrs

f1.4, 2.9mm or 3.6mm, 4.3, 6, 8, 12, 16 Electronic Shutter 1/50th to 100,000th .sec

Fixed 100mm to Infinity

From 2m

92° Diag in Air, 65° in Water (2.9mm lens)

Sapphire Glass

4,000 or 6,000m Option

-20 to +60°C -10 to +50°C

30g Peak, 6ms Half-sine Pulse

109 x 102 x 49mm

1650g Weight in Air: 1150g

Titanium Grade 5 Standard Housing: 5507-1508 or MCBH4M

Large Selection of Connectors Available

*Convergence Distance to be Factory Set



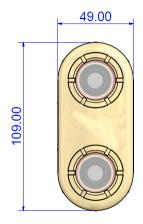


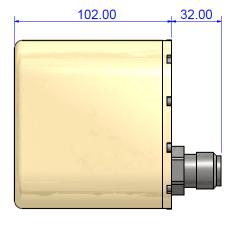






5506-1504 5506-1508 MCBH4M BH Wetcon MSAJ/MSSJ







700 TV Lines 0.01 Lux @ f2.0

1/3" (Sony) EX-View HAD CCD 10 Bit Digital Processing

752 (H) x 582 (V) >50dB (AGC off)

625Line 50Hz CCIR, 525 Line 60Hz EIA

12 to 24Vdc 200mA Maximum 1.0V pk-pk

EN50081-1 Emission/EN500852-1Immunity

80,000 hrs

(connector face patterns not to scale)







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