TECHNICAL SPECIFICATION

For Diver Monitoring's System

Axsub, Diver monitoring & Recording system

Axsub, Diver monitoring system for 2 divers, with spec.

- Model AxView-2V-RM / Rack unit (DMS hardware unit)
- 2 pcs. Dive cam with Depth sensor integrated
- Software for Norwegian dive table / NST / module in DMS
- Main PC for client video recording system with special features,
  - I5 – 512GB SSD - Lenovo, with windows 10
  - Wireless keyboard / mouse
  - 1 TB SSD extern hard drive
- All Power supply and Cables for above
- Included installation on dive system for all above equipment,
- Test and Certificates up to NORSOK
- Video recording and dive planning

See Spec. on Hardware unit and dive cam below:

AxVIEWHD VR-RM

High Definition Rackmount Subsea Video & Depth monitoring with SD Card Recorder

The AxVIEWHD V-RM is the second generation of our Rackmount High-Definition Video and Depth monitoring system that uses our 1080P HD AxSEEHD57i SMART Camera with High Precision Electronic Depth sensor. Designed for Commercial Diving Operations, the unit can be configured as a 2 or 3-diver system.

HD Video Recording and Depth Monitoring requires a computer or tablet to use the Diving Data Management Software AxDDM V3.

This system is delivered with an integrated 1080p HD Audio/Video backup recorder on SD card. Audio/Video Files can be copy to a computer for playback.

Advanced Technology

- High Definition 1080P with very low video latency up to 660ft (200m)
- Rackmount enclosure & RUGGED components
- Uninterruptible Power Supply (UPS) (with Battery Pack)
- SAFE Low Voltage Output to the diver (<30 VDC)
- Audio & Video Inputs for recording (with Blackbox System)
- Diver depth monitoring (with computer).

Available Options

- 17" Industrial RM TouchPanel PC with 1TB SSD (RM-OPT-ITPC17-1TB)
- HD Blackbox recorder for 2 or 4 inputs (RM-OPT-BLACKBOX-2 or -4)
- Rackmount Keyboard Drawer (RM-OPT-KBT-1U)
- LCD Monitors (RM-OPT-2S07-HD, RM-OPT-18.5-Monitor)
- Advanced Decompression Module with DECO Tables: DCIEM, USNAVY, MT92 or NODTT.
- Battery Packs of 5 or 15 Ah (B05Ah-24VDC-V2 / B15Ah-24VDC-V2)

Ordering Information

AxVIEWHD2VR-RM	HD Video & Depth Rec. System (Diver 1 & 2)
AxVIEWHD2VR-3/4-RM	HD Video & Depth Rec. System (Diver 3 & 4)

Specifications

General

I/O (Video/Light/Data):	1 per diver (Amphenol)
Video Loop (BNC):	1 per diver (for Blackbox)
Encoder Preview (BNC):	1 per diver
Video Output (HDMI):	1 per diver
Audio Input (BNC):	1
LED Dimmer:	1 per diver
LED ON/OFF Switch:	1 per diver
Camera ON/OFF Switch:	1 per diver
Operating Temp. (°F):	-4 to 122 (-20 to 50°C)

Mechanical

Dimensions (in):	19 x 12.5 x 3.25 (48 cm x 32 cm x 8.3 cm)
Weight (lbs):	9.6 (4.4 kg)

Electrical

Power Consumption:	140 W (max)
Main Power Input:	100-240 VAC 50/60Hz
Secondary Power Input:	24 VDC (Lead Acid Battery)

AxDDM Software

Operating System:	Windows 10
Hard Drive Space:	500 MB minimum

Features: Pre-Dive, Real Time Dive Profiles with Dive & DDC Decompression, Gas Analysers Trend & Recorder, Dive Report for each diver. Our software can be download from our website.
(HD Video Recording & Snapshots with OSD will be released later in 2021)

AXSUB

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Revision 0
2021-SEP-14

AxSEE 57i

High Resolution Underwater SMART Camera

The SMART CAMERA AxSEE 57i is a technological breakthrough that allows the Diving Supervisor to get high picture quality and REAL TIME data from the integrated electronic depth meter and water temperature sensor. With this SMART camera combined with one of our AxVIEW Subsea Video & Depth Recording System, you will have the perfect tools at your disposal to improve the Efficiency of your Commercial Diving Operations!

Advanced Technology

- Integrated Electronic Depth Meter & Temperature sensor
- High Resolution of 1000 HTV lines
- Integrated Digital Noise Reduction

Options

- Customised connectors available
- Stainless Steel helmet mounting bracket
- Optional Stainless Steel housing available and Sapphire Port

Products – Description

AxSEE57i-5N	NTSC Camera with a 5-pin MCBH5M Connector
AxSEE57i-5N-SS	NTSC Camera with MCBH5M & SS Enclosure
AxSEE57i-J5N	NTSC Camera with 5-pin Sauriau Connector
AxSEE57i-5P	PAL Camera with a 5-pin MCBH5M Connector
AxSEE57i-5P-SS	PAL Camera with MCBH5M & SS Enclosure
AxSEE57i-J5P	PAL Camera with 5-pin Sauriau Connector

Specifications

Optical

Focal Length :	2.80 mm F2.0
Angle of View :	130° (Diagonal in air) 98° (Diagonal in water)

Mechanical

Diameter (in):	2.25 (57 mm)
Length (in)	5.50 (140 mm)
Weight (oz) :	13.8 (390 g) in air 0.8 (22 g) In salt water
Depth rating :	1000’ (300 m)
Housing material :	Delrin® (Optional : S. Steel)
Housing port :	Scratch Resistant Polycarbonate

Electrical

Depth Span (FSW) :	0-1000 (0-305 MSW)
Precision (FSW):	±1 (±0.3 MSW)
Image device :	SONY STARVIS
Signal format :	NTSC / PAL
Sensitivity (Lux) :	0.0001
Resolution (TVL) :	1000 NTSC : 976 (H) x 494 (V) PAL : 976 (H) x 582 (V)
Compliance :	FCC
Voltage (VDC) :	12 (±10%)
Current (mA) :	120 max

Sauriau Jupiter Connector

MCBH5M Connector

AXSUB

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Revision 6
2019-SEP-04

AxLIGHT 35

High Intensity Underwater Inspection L.E.D. Lamp

The AxLIGHT 35 is a powerful underwater inspection lamp that offers a luminous flux of 5000 lumens and an illuminance of 2 800 Lux at 1m, the equivalent of a 350W Halogen bulb. It is one of the best underwater lamps on today's market with its robust Hard Anodized Aluminum enclosure, non-conductive Delrin® Head and the integrated light reflector.

Advanced Technology

- Thermal Protection Circuit to prevent overheating
- Protection Circuit against improper wiring
- High DC Voltage Protection Circuit (up to 32VDC)
- Low Power requirement and consumption
- Variable intensity control (when paired with AXSUB's surface units)

Options

- Helmet Bracket Kit: BR2K35-316SS
- Mask Bracket Kit: BR2K35-316SS-BM
- Top Handle Helmet Bracket Kit: TBR-35/57-316SS
- Top Handle Helmet with Quick Release: TBR-35L/57-QR-316SS
- Sapphir Port: Sapphir_Port_54

Product - Description

AxLIGHT35	AXSUB® Underwater L.E.D Lamp 2800 Lux @ 1m, 24VDC, Dimmable, 300m, with BIRNS XSG-3-BCL Connector
AxLIGHT35-J3	AXSUB® Underwater L.E.D Lamp 2800 Lux @ 1m, 24VDC, Dimmable, 300m, with SAURIAU JUPITER 3-pin Connector
AxLIGHT35-S3	AXSUB® Underwater L.E.D Lamp 2800 Lux @ 1m, 24VDC, Dimmable, 300m, with BIRNS SCIL3M Connector
AxLIGHT35R	AXSUB® Underwater LED Lamp, 2200 Lux@1m, 12-24VDC, No Protection Circuit, Dimmable, 300m, BIRNS XSG-3-BCL Connector (ROVSCO Compatible)

Specifications

Optical

Flux :	5000 Lumens
Illuminance :	2 800 Lux @ 1m
Operating Life :	10 000 hours
Beam Angle :	100°
Color Temp :	5 000 K

Mechanical

Length :	4.7'' (119 mm) excl. connect.
Diameter (Body) :	1.37'' (35 mm)
(Head) :	2.4'' (61 mm)
Weight :	11.8 oz (335 g) in air 4.8 oz (135 g) in salt water
Depth rating :	1000' (300 m)
Housing material :	Delrin® and Hard Anodized Aluminium
Housing port :	Scratch resist. Polycarbonate

Electrical

Voltage :	23 to 28 VDC
Power :	25 Watt
Dimmer Control :	5 to 0 VDC (0 to 100%)

Birns XSG-3-BCL

Sauriau Jupiter Connector

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