

PORTABLE SINGLE DIVER VIDEO SYSTEM WITH RADIO



SYNERGY
INNOVATIVE DIVING EQUIPMENT TRADING LLC

INSPIRING • ENGINEERING • INNOVATION

The Synergy Diver-Vision-IDR is a compact and economical underwater video and communications system designed for commercial diving operations. The system features dual video recording on a 32 GB SD card and 1 TB hard drive, integrated two-diver communications, audio recording capability, HDMI output for remote viewing, and USB data transfer.

Supplied with a 15" TFT monitor, underwater camera, and LED light, it delivers high-quality live video, recording, and playback.

The system operates on either 220V AC or 12V DC power and includes integrated video titling, digital power monitoring, and a user-friendly connection layout for efficient operation.



Part No: SY-DIVER-VISION-IDR

SPECIFICATIONS:

BUILT-IN CASE:

- Pelican 1600 case, IP67 rated (1 m / 30 min), MIL C-4150J, DEF STAN 81-41 / STANAG 4280, ATA 300 compliant

DIMENSIONS:

- Interior: 54.4 x 41.9 x 20.1 cm, Exterior: 61.7 x 49.3 x 22.1 cm

WEIGHT: COLORS:

- 14 kg • Custom color available upon request.

COMMUNICATION:

- Amron 2820A-11 two-diver radio system

MONITOR:

- 15" TFT monitor and lid-mounted control

PRIMARY RECORDING:

- Mini DVR with 32 GB SD card (upgradeable to 128 GB)

SECONDARY RECORDING:

- 1 TB backup hard drive for video recording & playback

SURFACE CONTROL UNIT:

- Patented Synergy/Outland design with integrated video, light controls, and video titler

CONNECTIONS:

- USB interface for keyboard, mouse, & video titling functions

POWER SUPPLY:

- 220V AC adapter and 12V DC battery connection

POWER MONITORING:

- Digital voltmeter/ammeter display

INPUT DEVICES:

- Waterproof USB keyboard and wireless mouse

OUTPUTS:

- USB file transfer and HDMI remote display

INTERNATIONAL STANDARD:

- IMCA D023 & D018 compliant

TESTING:

- Continuity and function tested



Call Us

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AMCOM II Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord



PART NO : SY-2820A-11

NEWLY DESIGNED ENHANCEMENTS:

- **High Audio Fidelity**

Ultra-low noise circuit combined with noise suppression circuitry produces crystal clear speech. Automatic gain adjustment will guard audio signal from distortion, enhance speaker protection and audio quality. Increases band width 47%.

- **Extended Battery Operation Time**

Audio amplifier card deploys the state-of-the-art Class-D digital audio power amplifier. Has very low power dissipation, produces less heat, and extends battery life up to 32%.

- **Flexible Gain Settings**

The audio amplifier card has adjustable gain settings to accommodate different communication applications and environments.

- **Ultra-Low Electromagnetic Interference (EMI)**

EMI is achieved through spread-spectrum and de-phase control techniques providing for optimum integration with diving systems.

- **Outdoor Rated AC Power Module**

Weather resistant, IP65 rated AC power entry module accommodates country specific AC power cords.

Country Specific V-Lock AC Power Cord

At time of order, simply choose the IP54 rated Locking AC power cord you need.



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MECHANICAL	SPECIFICATION
Weight	1.77 lbs. (0.24 kg) air, 0.11 lbs. (0.05 kg) sea
Depth Rating	2000 m (6560 ft)
Housing	Black delrin
ELECTRICAL	
Image Device	1/2" Sony Sensor
Sensitivity	0.017 lux
Resolution	SD 4:3
Video Out	1.2 Vpp
Power	135 mA (typical) @ 12 VDC
OPTICAL	
Lens	3.6mm, Electronic-Iris
Focus	Fixed
Angle of View	60° Horizontal FOV (in air)



PART NO : SY-UWC-325/p/e



PART NO : SY-UWL-401

MECHANICAL	SPECIFICATION
Weight	0.48 lbs. (0.22 kg) air, 0.18 lbs. (0.08 kg) sea
Depth Rating	2000 m (6560 ft)
Housing	Anodized Aluminum
ELECTRICAL	
Power	20 Watts (typical)
Wattage	2500 lumens = 150 Watt Halogen
Output	1100 lux @ 1m
OPTICAL	
Lens	3.6mm, Electronic-Iris
Focus	Fixed
Angle of View	100° Bean Angle

MECHANICAL	SPECIFICATION
Conductors	16ea #22 awg 1 RG-59 Coax
Length (mtrs)	100/150/200 as per requirement
Diameter	8.5mm (0.35")
Materials	Orange Polyurethane jacket
Breaking Strength	1200 lbs
END FITTINGS	
Diver End	Moulded Y connection
Camera	Rmk-5-fs with locking sleeve
Light	Rmg-3-fs with locking sleeve
Surface end	Soldered connection
Cable	8 pin amphenol connector



PART NO : SY-VC-150M (length)

PART NO : SY-VC-100M (length)



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Connector	RMK-5-FS
Type	5 Female Sockets
Cable	18 in Pigtail of 18 SO AWG Cable
Material	Special Neoprene, Molded
Contacts	Copper Alloy, Hard Gold Plated per ASTM-B-488
Voltage Rating	600 VDC
Pressure Rating, Mated	Up to 20,000 psi
Mates with	XSL-5-BCL on Outland Camera UWC-325/p/e

PART NO : SY-RMK-5-FS



Locking sleeve for Rmk-5-fs

PART NO : SY-K-FLS-D

PART NO : SY-RMG-3FS

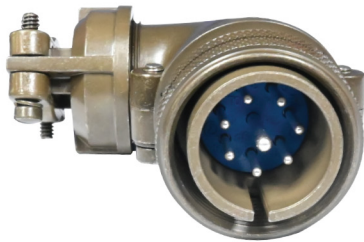


Locking sleeve for Rmg-3-fs

PART NO : SY-G-FLS-D

Connector	RMG-3-FS
Type	3 Female Sockets
Cable	18 in Pigtail of 18 SO AWG Cable
Material	Special Neoprene, Molded
Contacts	Copper Alloy, Hard Gold Plated per ASTM-B-488
Voltage Rating	600 VDC
Pressure Rating, Mated	Up to 20,000 psi
Mates with	XSG-3-BCL on Outland light UWL-401

Certifications	Provided with each system
International	IMCA D0 23
Manufacturer	Synergy Certificates
Electrical	Continuity/Function test



PART NO : SY-MS3108B-18-08P

Cannon Right Angle Amphenol Connector is used for connecting the video camera umbilical to the surface video console unit.



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