

**PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR**

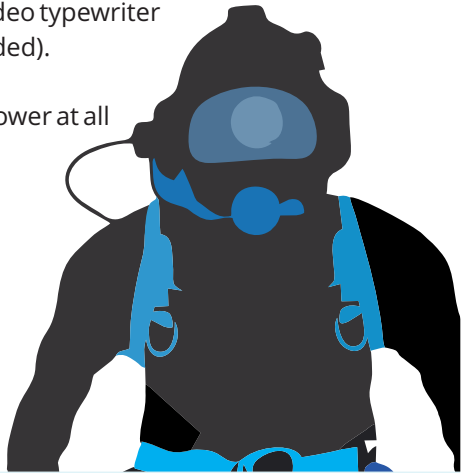


The Synergy Diver-vision-2DR is a reliable, economical underwater two diver video system, with each diver recording on individual primary mini dvr with 32gb sd card and a secondary 1TB hard drive for storage /playback. A Usb port is for each diver video to copy data on any drive. Video on/off and led light dimming control, along with port for connecting audio cable from diver radio, enabling integration of audio to the video files when recording dives. A Hdmi out port is provided for connection to client room / bridge etc (remote location access through hdmi cable). A two diver amron radio is inbuilt for diver audio with cable provided for connection to video surface control unit.

15" TFT anti glare monitor provides crisp images for live video & playback, supplied with Outland Uwc-325/p/e camera and Uwl-401 light for each diver providing high quality pictures. Each surface control unit is provided with a video typewriter (edit, playback, time/date, titles, comments can be superimposed on the dive videos being recorded).

A combined voltmeter / ammeter with digital display is provided for user to know the incoming power at all times during operation of the system

The system is built to run on 220v ac power with adaptor or 12v battery power (from standard car battery). All the fittings for power video/light/comms are provided on the left side of the system, for hassle free connections, eliminating any cables running in front of the screen or interfering with the functions of the video system.



**PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR**

<b>Specifications</b>	Two Diver Video System with communication
Built in Pelican Case	The 1600 case has the following certificates: IP67 (Ingress Protection) = 1-meter submersion for 30 minutes, MIL C-4150J (Military Standard), Defense Standard 81-41/STANAG4280 and ATA 300 specifications for transit cases. Unbreakable, watertight, airtight, chemical-resistant, corrosion, and dustproof case
<b>Dimensions</b>	
Interior	21.4 x 16.5 x 7.9" / 54.4 x 41.9 x 20.1 cm
Exterior	24.3 x 19.4 x 8.7" / 61.7 x 49.3 x 22.1 cm
Colors	Orange, Yellow, Grey, Black
Monitor	15.5" TFT with remote built into lid of panel with 4 screen splitter
Primary recording for each diver	Mini Dvr with 32gb sd card (can be upgraded to 128gb)
Secondary recording (for all divers)	1TB backup hard drive records all diver video files
Surface Control Unit	Patented synergy / outland with video /light controls, usb interface for keyboard / video titler inbuilt
<b>Connections</b>	
Ac	220 V adapter to 12v provided
Dc	Battery terminals with leads (for standard car battery 12v,75 amps to be connected)
Power meter	Digital power meter to show remaining battery life
Keyboard	Flexible waterproof with usb connection
Mouse	Wireless mouse
Protection	Monitor plexiglass cover (to protect monitor damage)
USB out	For easy copying of files to usb drives/ laptop etc
HDMI out	For mirror images to be displayed in client room/bridge etc
On/Off	Main on /off switch
Communication	Two diver amron radio # 2820A-11

Maximum Weight	18 kgs
Warranty	One year international manufacturer warranty

Certifications	Provided with each system
International	IMCA D023
Manufacturer	Synergy Certificates
Electrical	Continuity/Function test

<b>ORDERING INFORMATION</b>	
<b>SY-DIVER-VISION-2D-R</b>	<b>PORTABLE TWO DIVER VIDEO SYSTEMS WITH COMMUNICATION</b>

**PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR**

**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.

## PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR

- FEATURES:**
- Single volume control for both divers.
  - Diver's umbilicals can be set up on 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for each diver.
  - Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.

- The divers' connections consist of cross-talk and separate speaker and microphone inputs.
- Internal charger allows for simultaneous charging and operation of the unit while protecting the rechargeable battery from being over-charged. Automatically supplies power to the audio amplifier when AC power is disconnected to allow for continued operation.
  - See **Tech Note** (below) for recommended accessories.

- SPECIFICATIONS:**
- Input Impedance (Each Input): 250 Ohms
  - Frequency Response: 300 - 10000 Hz
  - Common Mode Rejection: 40 dB Minimum
  - Current Drain Maximum Full Volume: 3 Amps
  - Minimum Quiescent: 0.190 Amps
  - Output Impedance: 4 Ohm
  - Power Supply Voltage: 12 VDC Nominal (9 Volts Minimum - 16 Volts Maximum)
  - AC Power Operating Range: 90-264 VAC, 50-60 Hz
  - Sensitivity (Input): 0.5 mV
  - Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
  - Battery Life: 45 hours
  - Dimensions: 10 in. H x 9 in. W x 14.5 in. L (25.4 cm x 22.9 cm x 36.8 cm)
  - Weight: 16.25 Lbs. (7.37 Kg)

**INCLUDED WITH COMMUNICATOR:**  
AMCOM II 2820A-11 Two-Diver Rechargeable Basic Portable Communicator with Outdoor Power Module and International Locking Power Cord includes:

- (1) Amron 2890-05 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- (1) Amron 282XA-UM Two Diver Portable Communicator User Manual

- AVAILABLE OPTIONS:**
- Amron 2460SM-28 Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
  - Amron 2405-28 Hand-Held Push-to-Talk Microphone
  - Amron 2401-28 Deluxe Headset with Boom Mic
  - Amron 2460-28 Standard Headset with Boom Mic
  - Amron 2822-28 Remote Walk-and-Talk (4-wire mode)
  - Amron 2821-28 Remote Walk-and-Talk (2-wire mode)

**TECH NOTE:**  
All communicators will inherently transfer topside noise to the divers when the tender speaks directly into the communicator's panel speaker. To eliminate background noise at the surface, we recommend purchasing the 2405-28 Push-to-Talk Microphone (not included with this model). For optimum communications, it is recommended to use the 2401-28 Deluxe Headset with Boom Mic, topside. For tender maneuverability, use the 2401-28 Deluxe Headset with Boom Mic along with the 2822-28 Remote Walk-and-Talk (4-wire mode) or the 2821-28 Remote Walk-and-Talk (2-wire mode). For wireless tender communications, order the 2825A-03 Two Diver Deluxe Portable Communicator with built-in Wireless Tender option.

**PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR**

Mechanical	Specification
Weight	6 oz (.2kg) Dry, 3 oz(.06kg) wet
Depth Rating	2000 ft (600m)
Housing	Black delrin
<b>Electrical</b>	
Image Device	1/3" CCD sensor (412k pixel)
Sensitivity	.001 lux @f1.4
Resolution	600 TV lines standard
Video Out	1.2 Vpp
Power	12 VDC @ 110 ma.
<b>Optical</b>	
Lens	3.6mm, Electronic-Iris
Focus	Fixed 4" to infinity
Angle of View	70 horz. (in water)



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



**PART NO : SY-UWL-401**

Mechanical	Specification
Weight	7oz(0.2kg) Dry, 3 oz.(.1kg) Wet
Depth Rating	2000 ft (600m)
Housing	6061-16 Anodized Aluminium
<b>Electrical</b>	
Power	12 VDC @ 110 ma.
Wattage	18 watt (Eq to 150 watt halogen)
Output	700 lux at 1 meter
<b>Optical</b>	
Lens	3.6mm, Electronic-Iris
Focus	Fixed 4" to infinity
Angle of View	70 horz. (in water)

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
<b>End fittings</b>	
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)**

**PORTABLE TWO DIVER VIDEO SYSTEM WITH COMMUNICATION SY-DIVER-VISION-2DR**

**SINGLE DIVER VIDEO SYSTEM WITH VT (SY-SDVS-01-VT)**

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**



**PART NO : SY-K-FLS-D**

**PART NO : SY-RMG-3FS**



**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


<b>Certifications</b>	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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