





PART NO: SY-3DAPD023-R-3DV

Three Diver Air Panel with D1/D2/D3 cctv system



























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Information	Three Diver Panel
Case	Model 1630, Black, Interior (27.70" L x 20.98" W x 15.50" H), with wheels and handle, water, rust and dust proof), Pelican USA <b>Exterior dimensions:</b> 79.45 x 61.49 x 44.39cm (31.28" x 24.21" x 17.48") <b>Interior dimensions:</b> 70.35 x 53.28 x 39.37cm (27.70" x 20.98" x 15.50")

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver 1, Color coded Green

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver

2, Color coded Blue

1 x 0-230 fsw/70 msw Depth gauge, 3.5", 0.25 % accuracy, mirror scale, with calibration point, Diver

3, Color coded Red



Air / Gas Supplies	HP Air-Independent line per diver LP Air-Independent line per diver
Regulator	High pressure regulator 6000 psi inlet, 400 psi outlet
Relief valves	0-250 psi on regulated diver supply line, 100 psi on pneumo gauges
Air supply ports	All fittings provided behind the panel, with each line labelled. No hoses
	or connections criss crossing the front of the panel.
Analysis	Individual Oxygen analyzer with hi low alarm and flow meter per diver
Communication	Three Diver Amron Radio 2830A/11 with ac/dc power supply
Calibration	Inbuilt calibration points for pneumo gauges
Power supply	Works on 220v with 12v adapter, and on 12v battery,
	provided with digital amp/voltmeter to check incoming supply

**Optional:** 

Diver CCTV	Can be provided for Diver 1/Diver 2/Diver 3
Supervisor CCTV	Provided with panel (optional)
Monitor	TFT 15.5" (splitter will be provided if diver CCTV options are required)
Surface control unit	Video / light control, patented design, outland/synergy design, usa
Primary recording	Mini Dvr with 128gb SD card per diver video or 1TB hard drive
Backup recording	1 TB backup hard drive to record all diver video simultaneously
Usb Out	To retrieve data onto a usb memory drive from hard drives
HDMI Out	To mirror broadcast diving operations work via hdmi cable to remote monitor
Control Switches	Touch button switches with backlight for low visibility weather conditions
Light Control	Dimmer switch, knob type











### AMRON INTERNATIONAL - MASTER DISTRIBUTOR

SY-2830A-11 AMCOM III Three-Diver Rechargeable Portable Communicator with Outdoor AC Power Module and International Locking Power Cord



#### **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.











### AMRON INTERNATIONAL - MASTER DISTRIBUTOR

#### **FEATURES:**

- · Separate channels and volume controls for each diver and tender to accommodate individual earphone and microphone adjustments, equipment variations and individual comfort levels.
- Divers' umbilicals can be set to 4-wire mode (full duplex) or 2-wire mode (push-to-talk) or any combination of the two modes for any diver.
- · Ability to use both dynamic and pre-amplified diver microphones with a unique circuit that detects microphone type and automatically adjusts volume levels.
- · Weatherproof push-to-talk microphone for better voice intelligibility topside. For optimum clarity, see Tech Note (below) for other recommended equipment.
- · 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.

#### 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: 40hm
- · Power Supply Voltage: 12 VDC Nominal (9 Volts Minimum 16 Volts Maximum)
- · AC Power Operating Range: 90-264 VAC, 50-60 Hz
- Sensitivity (Input):5 mV
- · Output Power (RMS @ 4 Ohm Load, 12 VDC): 10 Watts Audio
- · Battery Life: 41 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: 17.05 Lbs. (7.73 Kg)

#### **INCLUDED WITH COMMUNICATOR:**

AMCOM™ III 2830A-11 Three-Diver Portable Communicator with AC Power, Internal Charger and Rechargeable **Battery includes**:

- · (1) SY-2405-28 Amron Hand-Held Push-to-Talk Microphone
- · (1) SY-2890-05 Amron 12 VDC Sealed Lead Acid Gel-Cell Rechargeable Battery with Slide terminals
- · (1) SY-283XA-UM Amron Three-Diver Portable Communicator User Manual

#### **AVAILABLE OPTIONS:**

- · SY-2460SM-28 Amron Single Muff Operator Headset with Boom Mic and Dual Banana Plugs
- · SY-2401-28 Amron Deluxe Headset with Boom Mic
- · SY-2822-28 Amron Remote Walk-and-Talk (4-wire mode)
- · SY-2821-28 Amron Remote Walk-and-Talk (2-wire mode)

#### **POWER CORD 6.5 FT. OPTIONS:**

#### **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, use the 2405-28 Push-to-Talk Microphone, included with this model. For optimum communications, we recommend purchasing the 2401-28 Deluxe Headset with Boom Mic, topside. For tender mobility, 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 2830A-03 Three-Diver Deluxe Portable Communicator with Wireless Tender.







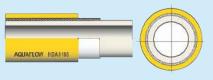




## SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW

Known worldwide for its lightweight and ultra flexible construction, Aquaflow hoses are ideal for surface demand applications. Aquaflow kink resistant construction comprises of an extruded core tube, reinforcement of high strength yarn and a bonded outer cover. Both tube and cover are extruded from high performance thermoplastic polymers which are particularly clean and free from odors often associated with conventional rubber hoses. Coupled with the wide operating temperature range this ensures breathing gas quality is maintained under all conditions from -20°C to +66°C.





PartNo.	Nominal Bore O.D.		D.					Nom.k		Weigh air		Weigh sea wa		Typical application	
	in	mm	in	mm	in	mm	psi	bar	psi	bar	lb/ft	g/m	lb/ft	g/m	
SY-HDA0104	1/4	6.3	0.50	12.7	1.25	32	300	21	1200	84	0.078	116	-0.009	-14	Pneumo
SY-HDA0106	3/8	9.5	0.66	16.8	2	50	500	35	2000	140	0.119	177	-0.034	-50	Air/gas
SY-HDA1108	1/2	12.7	0.83	21.0	3	76	300	25	1200	84	0.178	265	-0.054	-80	Hotwater

### **Aquaflow Umbilicals**





Lightweight, ultra flexible and kink resistant, Aquaflow Umbilicals are ideal for breathing gas supply, comms and pneumo service for surface demand umbilicals. They can be produced in production runs up to 740 meters long and can be over extruded or braided for additional protection against abrasion and use in contaminated waters.

The unique materials and cabled "rope-like" construction combine to produce the most flexible, controlled buoyancy umbilicals available today. The umbilicals have no need

for tape, the repairs are much reduced and they have a longer life. They keep the professional diver safer and more efficient both while diving and on deck. They will ultimately reduce costs for the operator. The highest quality materials, workmanship with competitive pricing and unmatched service to our clients worldwide. SYNERGY invites you to visit our website or contact us directly so that we can assist you with all your Diving Umbilical needs.

## SYNERGY SURFACE DIVING HOSES AND UMBILICALS SY-AQUAFLOW

**SY-UDA0103**3 part surface demand





**SY-UDA0204** 3 part plus video











## **OUTLAND VIDEO CAMERA / LIGHTS / UMBILICALS**

Mechanical	Specification
Weight	6 oz (.2kg) Dry, 3 oz(.06kg) we
Depth Rating	2000 ft (600m)
Housing	Black delrin
Electrical	
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.
Optical	
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
Electrical	
Power	12 VDC @ 110 ma.
Wattage	18 watt (Eq to 150 watt halogen
Output	700 lux at 1 meter
Optical	
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
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











## **SYNERGY PIGTAILS AND CONNECTORS**

Connector	SY-RMK-5-FS
Туре	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	SY-XSL-5-BCL on Outland
	Camera SY-UWC-325/p/e

PART NO: SY-RMK-5-FS



PART NO: SY-RMG-3FS



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

PART NO: SY-MS3108B-18-08P

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





**PART NO: SY-CLBRK** 

SS camera and light bracket with jubilee clamp











### **CLASS WITNESS CERTIFICATES**











## Certifications Provided with each panel

Manufacturer	Synergy certification
International	IMCA D023
Class	Bureau Veritas pressure test certificates
Warranty	1 year international manufacturer warranty
Weight	68 kg











## **Client Optional**

Tracking	Panels can be embossed with client logos, asset information, serial
	numbers etc on special request

## **ORDERING INFORMATION**

Sr	Part Number	Description
1	SY-3DAPD023	Portable three diver air panel D023 panel, offshore, imca (no radio, no
		diver cctv) with analyzer panel (not shown in photo)
2	SY-3DAPD023-R	Portable three diver air panel D023 panel, offshore, imca with radio ,with
		analyzer panel (not shown in photo)
3	SY-3DAPD023-R-1DV	Portable three diver air panel D023 panel, offshore, imca with radio,
		analyzer panel and diver 1 cctv
4	SY-3DAPD023-R-2DV	Portable three diver air panel D023 panel, offshore, imca with radio,
		analyzer panel and diver 1/diver 2 cctv
5	SY-3DAPD023-R-3DV	Portable three diver air panel D023 panel, offshore, imca with radio,
		analyzer panel and diver 1/diver 2/diver 3 cctv

**BESPOKE DESIGNS - ANY CONFIGURATION AS PER CLIENT REQUIREMENT** 











## **SYNERGY INFRASTRUCTURE**





## THREE DIVER NITROX MIX GAS PANEL - SY-3DAPD023-R-3DV

# **Contact us**

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