

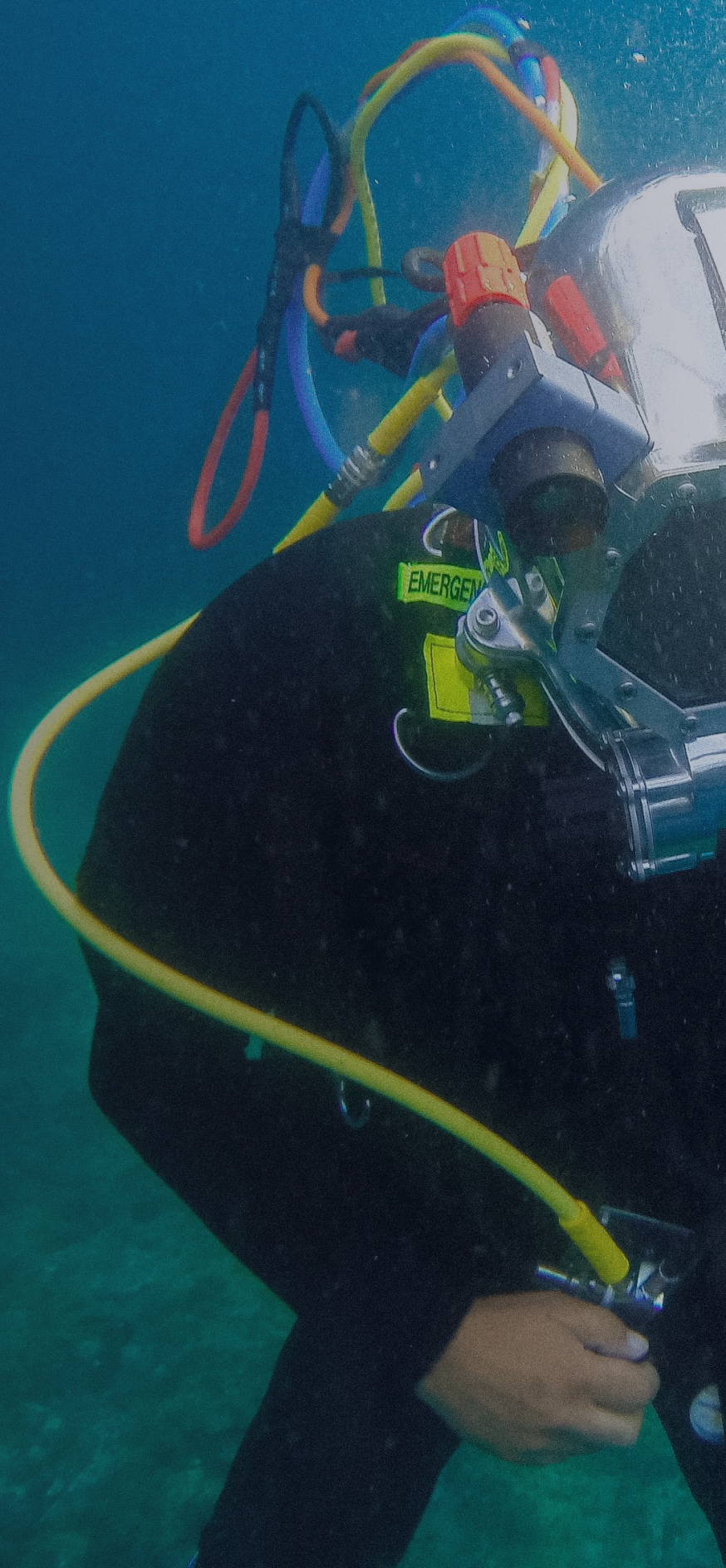


PRO-LINE CATALOGUE



2026

**READY FOR
THE MISSION**



An underwater photograph showing a diver's arm and a thick, multi-colored umbilical cord (red, yellow, blue) against a deep blue background. A bright light source, possibly a camera flash or a work light, is visible on the left, creating a strong glare and illuminating the water and the diver's equipment.

ABOUT US

Tier One Sub was born in collaboration with Randal Systems, a Spanish company specialized in the design and manufacturing of high-technology professional diving equipment. Based in Málaga, we develop comprehensive solutions for professional divers, law enforcement units, rescue operations, and all types of underwater work.

Our products are CE certified and manufactured under strict quality standards (ISO 9001, ISO 14001, ISO 45001), ensuring maximum safety and reliability in every operation.

We offer a complete range of equipment including underwater communication systems, closed-circuit television (CCTV) systems, hydrophone systems, gas supply panels, underwater cameras and lighting systems, umbilicals, as well as lifting and rescue equipment.

Our commitment is to provide advanced equipment and specialized technical support to professionals operating in the most demanding underwater environments.

+ 25

Years of Experience

+ 13

Product Lines

100m

Operational Depth



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CM202CT

Underwater Communication Equipment



The **CM202CT** is a system that enables communication between a tender and two divers, either individually or simultaneously, as well as diver-to-diver communication.

It supports 2-wire (2W) communication mode. It features internal rechargeable power supply and is designed to provide audio output signal to recording devices.



2-Divers
Communication



Battery
Autonomy



Thermal
Range



Watertight
Sealed Case



Recording
Equipment

Features

-  Independent communication control: Diver/-Tender and Diver/Diver
-  Audio output for recording equipment
-  Compatible with hydrophone systems
-  12V power input



Technical specifications



General audio

Frequency response: 25 - 20,000 Hz

Recording signal: 1 Vrms standard RCA connection

Diver microphone impedance: 5-500 Ω

Diver headset impedance: 8-440 Ω

Tender headset impedance: 32 Ω

Tender microphone jack: 6.5 mm jack

Communication types

Underwater via umbilical: 1 or 2 divers, 1 tender

Underwater via hydrophone: unlimited number of divers, 1 tender

Controls

Volume: Divers/Hydrophone, Tender

Talk button (Tender): Divers/Hydrophone and microphone with external PTT

Cross-talk buttons (Divers): Diver-to-Diver / Diver-to-Hydrophone

External charger

Voltage type: AC sine wave

Voltage: 230 VAC $\pm 5\%$

Frequency: 50/60 Hz

Power: 15 W

Power Supply

Connection type

4 mm banana terminals for charger or auxiliary battery adapter

Input voltage

13.7V stabilized fixed voltage

Battery

Type

Maintenance-free lead-acid battery

Voltage

12 VDC

Autonomy

4.5h

Capacity

3 Ah



CM202CT

Underwater Communication Equipment

Connections

Connection configuration	2-wire system
Connector type	4 mm female banana (standard) Military connector (optional)

Output power

Divers	20Wrms total (10Wrms+10Wrms)
Tender	20Wrms
Hydrophone	20Wrms

Status indication

Volume	Diver/Hydrophone, Tender
Push-to-talk button (Tender)	Diver/Hydrophone and mic. with external PTT
Cross-talk push buttons (Divers)	Diver-to-Diver / Diver-to-Hydrophone

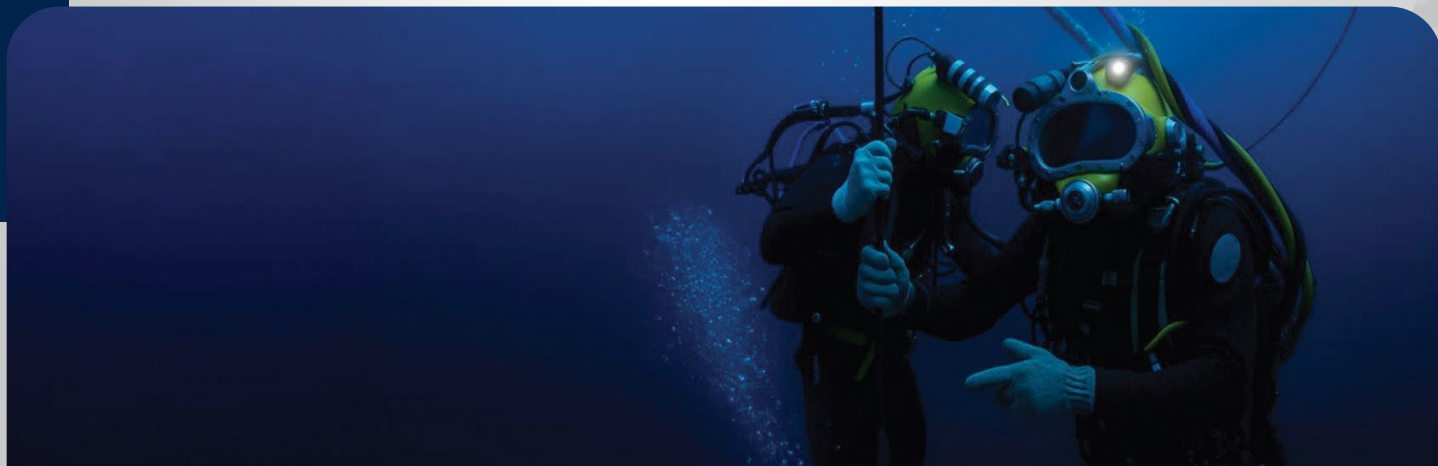
Dimensions

410 mm x 205 mm x 340 mm



6,3Kg





Optional accessories



PTT



Headset



Buoy



**Underwater
Cable**



DIVECOM III

Underwater Communication System



Complete and flexible communication

The Divecom III is a system that enables communication between a tender and up to three divers, either individually or simultaneously. It also allows diver-to-diver communication.



Advanced operating modes

Supports 2-wire and 4-wire communication modes and includes a multi-conference mode.



Autonomy and professional signal

Features internal rechargeable power with up to 14 hours of autonomy and is designed to provide output signal to recording equipment.



Communication
2-wire and 4-wire



Battery
Autonomy



Thermal
Range

-20°C
+60°C

IP67
PROTECTION

Watertight
Sealed Case



Protection
IP54



Robust and adaptable design

Highly configurable on demand and adaptable to virtually any operational requirement.



Integrated extras

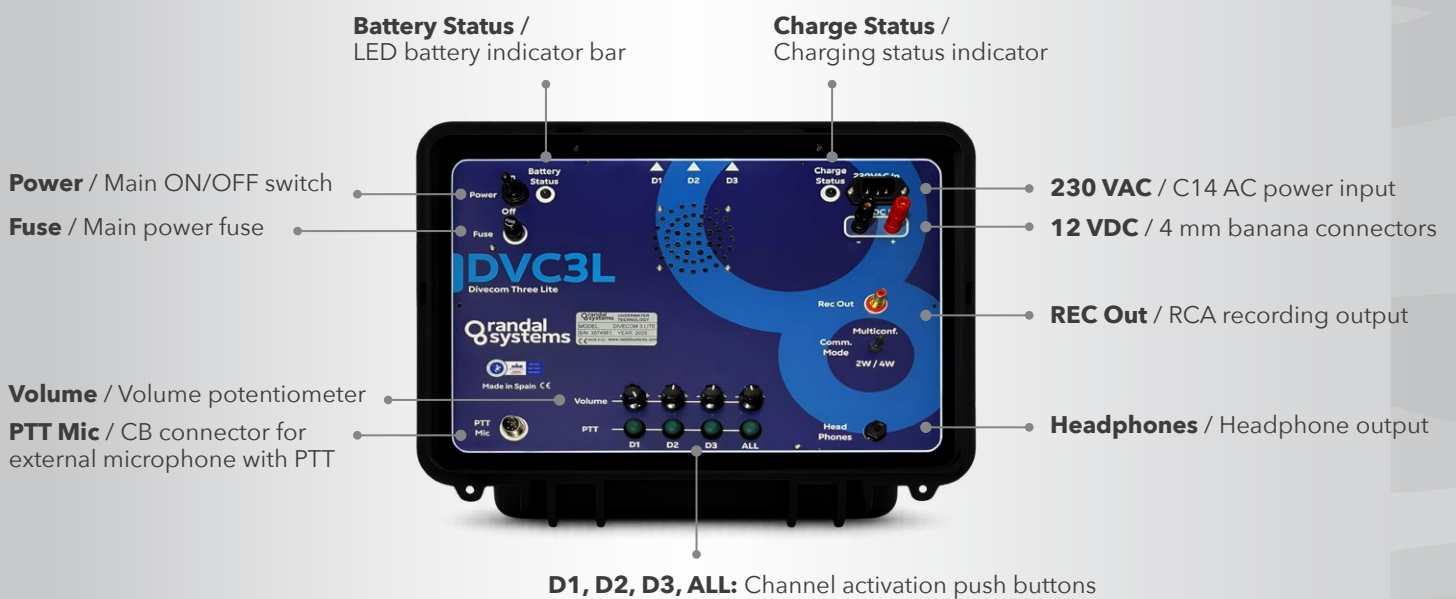
Includes an internal organizer and an audio input for use as an auxiliary speaker.

Features



- Autonomous and portable communication system.
- Supports 2-wire and 4-wire modes.
- Waterproof case (IP67 protection - closed).
- Internal battery with up to 14 hours of autonomy.
- Independent communication for up to three divers.
- 12 VDC and 230 VAC power input.
- Compatible with recording equipment.
- Custom branding available with client's image.

Control Panel



DIVECOM III

Underwater Communication System

Technical specifications

Power supply

Mains connection	220-240 VAC, 50-60 Hz, 0.7 A max
Internal battery	12 V
Battery type	Sealed, maintenance-free gel lead-acid battery
Charger	Internal
External power input	12 V, 2.5 A max
Autonomy	Up to 14 h
Protection	4 A fuse

Accessibility

Independent volume and equalizer controls
Signal level indicators with sensors

Connectivity

Mains power	IEC C14 connector
External 12V supply	External battery or direct connection
5-pin military/CB connectors	Compatible with all Randal umbilicals





Dimensions

410 mm (length) × 205 mm (width)
× 340 mm (height)



8,3 Kg



Optional accessories



PTT



Headset



Plug



HDR

Portable Hydrophone System



Quality and Safety

The HDR is a powerful communication system consisting of a surface unit housed in a case with multiple power supply options and an AS1 underwater speaker (world record holder in bandwidth), developed by a leading company in the underwater communications sector.



300m
Range



Battery:
Maintenance-free



8 h
Battery
Autonomy



**-20°C
+60°C**
Thermal
Range

IP66
CLOSED

Protection
Case

- ✓ It provides instant transmission of voice messages and call tones to autonomous divers within a wide coverage range, featuring a simple operating system ideal for demanding environments. This device combines professional performance, high reliability, and ease of use, all at a highly competitive price

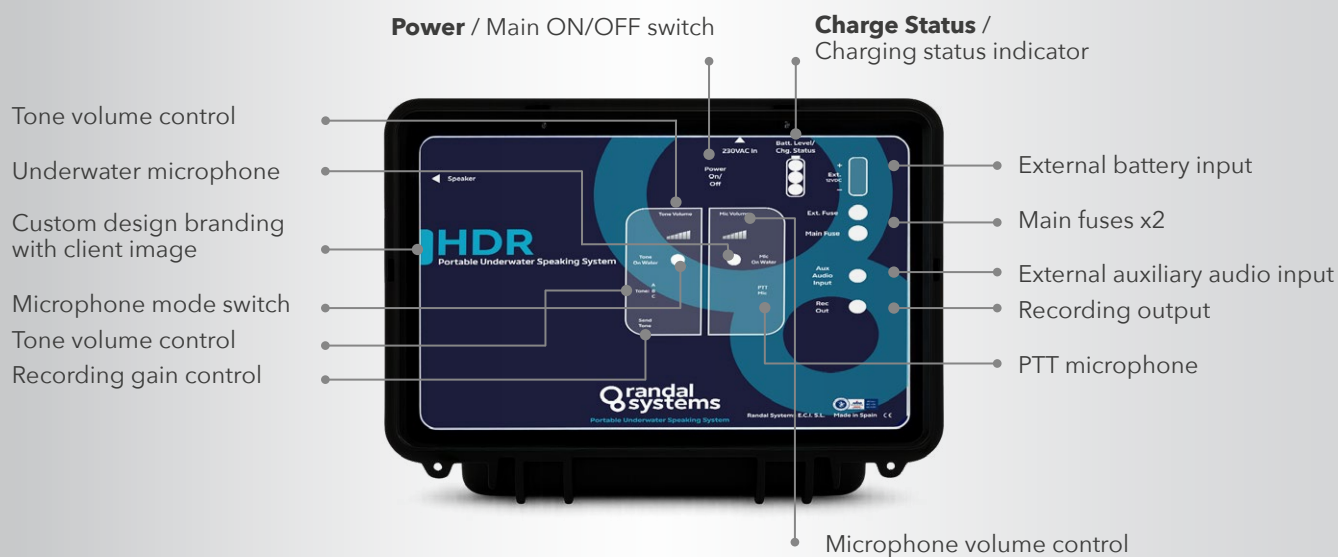
Features



- Surface unit resistant to shocks and vibrations.
- *Optional enhanced IP protection. IP53 open and IP65 closed.
- High-fidelity, high-power underwater speaker.
- Multiple power supply options: internal battery, mains power, or auxiliary battery.
- 3 call tones: Police, Fire Department, and Ambulance.
- Battery charge/discharge status monitoring.
- *Optional surface Bluetooth connection.

- ✓ **Includes:**
PTT microphone for voice instructions and mains power cable for charging the unit.

Control Panel



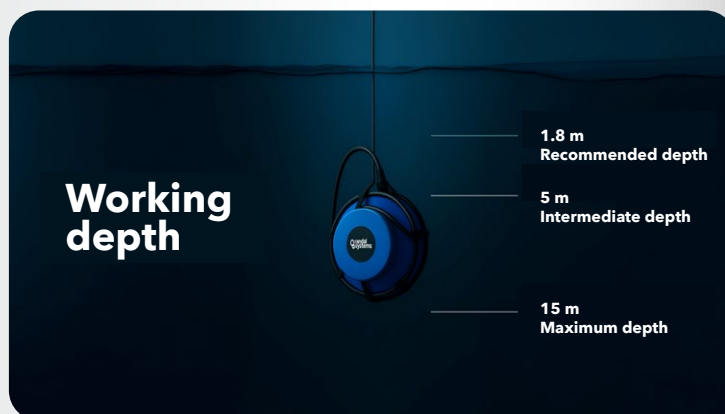
HDR

Portable Hydrophone System

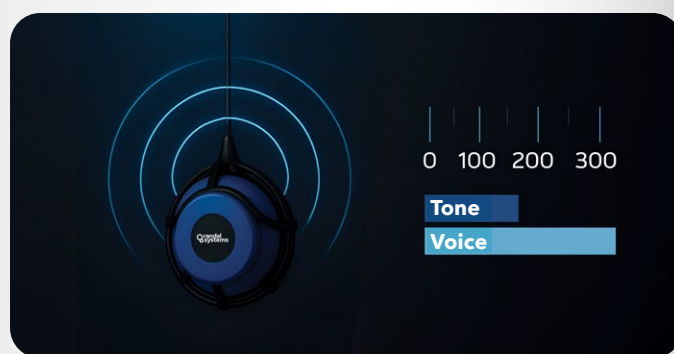
Technical specifications

Surface Unit

Power supply	12V autonomous
Autonomy	8 h
Continuous power (RMS)	200 W max. (limited to 80 W AS1)
Battery type	Sealed maintenance-free gel lead-acid battery



Range radius



AS1 underwater speaker model

Response frequency	200 Hz-20 kHz
Sound level	180 dB/ μ Pa/m @ 1 kHz
Continuous power (RMS)	80 W
Finish	PVC

Optional accessories



AS1 Underwater Speaker

For more hostile environments, the AS1 underwater speaker is optionally supplied mounted in a protective cage, making it a robust unit that is virtually immune to impact damage.

Weights and dimensions



Diameter
230 mm



Thickness
150 mm



Case Dimensions

230 mm (length) × 520 mm (width)
× 435 mm (height)



LVL3+HD

Light Vision Lite, HD



Underwater CCTV system

- ✓ Autonomous closed-circuit television (CCTV) systems for underwater cameras and lights.
- ✓ They allow light intensity adjustment, as well as monitoring, recording, playback, and image capture.
- ✓ They support up to 3 diver video signals, plus an additional channel for a surface surveillance camera.
- ✓ They stand out for their HD 1080 recording and playback capability, using standard coaxial umbilical cables.



Communication
1,2,3



Battery
Autonomy
10h



Thermal
Range
-102 °C
+50 °C

IP67
CLOSED

Protection
Case



Solid-state
recording

- ✓ With the LVL range, Randal Systems has developed equipment that is easy to operate, highly robust, and of superior quality, condensing all the CCTV requirements needed for a professional diving team.

Features



- Autonomous and portable CCTV system.
- Monitors/records/plays signals from up to ...
- Watertight case (IP67 protection - closed).
- Internal battery with up to 10 hours of autonomy.
- Solid-state recording via SSD disk.
- Compatible with the main market models of video cameras and lights.
- Option to customize the equipment with the client's branding.

✓ **Compact high-definition technology**

Monitoring Panel



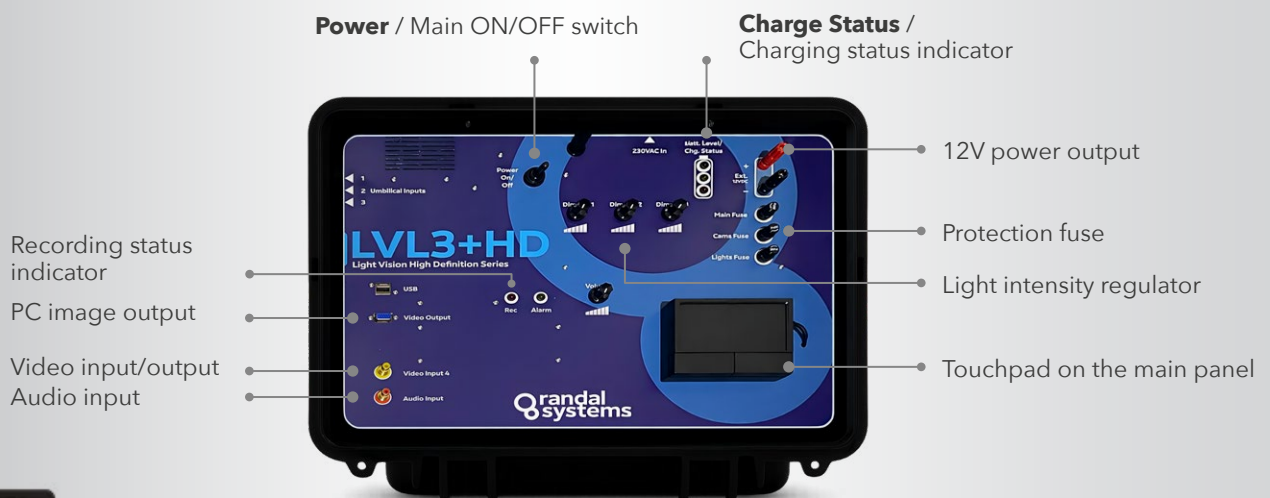
15" Ruggedized
High-Brightness LCD
Monitor



On-screen info:
Date and Time



Control Panel



MILITARY CONNECTOR and 230V power supply with umbilical connection (located on the rear panel)

LVL3+HD

Light Vision Lite, HD

Technical specifications

Power Supply

Mains connection	220-240 VAC, 50-60Hz, 0.7A máx.
Internal battery	12V, 12 Ah.
Charger	Built-in
External power input	12V 8A máx.
Autonomy	Up to 10h (LVL, light output at 50%)
Protection	3A/10A fuse

Accessibility

Light intensity control	Analog 0-100%
Indicators	Battery level and charge status via LEDs

Monitoring

Technology	High-brightness LCD, protected with tempered glass
Size	15"
Aspect ratio	4:3

Recording

Recording medium	Disco SSD
File partition system	Automatic
IOSD information	Date, time, and channel

Playback

Integrated playback system for recorded files

Recording

Mains input	IEC C14 connector
External 12V power input	Optional external battery with sealed connector
Military-grade 7-pin connector(s)	Compatible with all Randal Systems umbilicals; optional waterproof cap. Provides power supply for camera and light, plus video input.
Auxiliary connections: External camera and audio recording	



LVL3+HD



Dimensions

230mm x 520mm x 435mm



22,7 Kg

Weight



Optional accessories



Camera
Lights



Umbilical
Cable



MC2 HD

Professional Underwater Camera



The Most Accurate View Underwater

With the **MC2 HD**, you get a high-performance underwater image capture system in a highly compact format.

Developed in conjunction with the FLD5 and FLD6 lights for use with helmets, it provides divers with total freedom of movement.



0.1
Lumens



Maximum
Depth



12 VDC



Thermal
Range



291 gr

Features

- Compact design optimized for helmet use.
- Same diameter as the FLD5 and FLD6 lights, allowing reuse of existing mounting brackets.
- Compact housing resistant to shocks and vibrations.
- Digital noise reduction for sharper images.
- Compatible with LVL HD systems.





- ✓ Outstanding for its **HD 1080 video transmission** capability using standard coaxial cables.

Technical specifications

Sensor

CCD	1/2.8" 2.13 MP SONY STARVIS
Resolution	1920x1080 (HD)

Optics

Fixed lens	3.6 mm
------------	--------

Performance

Electronic shutter	1/50 ~ 1/100.000 seg.
S/N ratio	> 50dB
Minimum illumination	0.1 lux
Maximum depth	100 m

Power Supply

Voltage/current	9 to 15 VDC / 100 mA max.
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MC2 HD

Professional Underwater Camera

Connection Types



Standard 4-pin **SUBCONN**

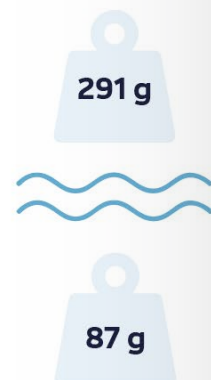


4-pin Mini **SUBCONN**

Available options:

- **MINI-SUBCONN** - 4-pin connector
- **NTSC** - Video system
- **OSD** - On-screen display identification
- **Special configurations** (night vision, anti-fog)

Dimensions and Weight





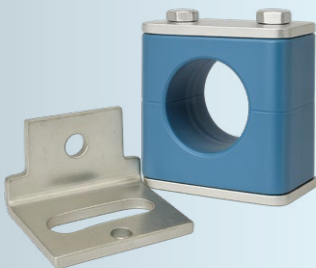
Front View



Actual size

3.6 mm lens with F2.0 aperture for bright imaging and a wide field of view.

Optional Accessories



**Helmet mounting
kit**



**Underwater
Cable**

FLD5 LIGHT

Underwater LED Lighting Equipment



Efficient and Safe Light

The **FLD5** is equipment that provides an excellent light source in a very compact size.

Designed and optimized together with the **MC2** and **MC3** cameras for helmet mounting, it provides the diver with total freedom of movement.



400
Lumens



Maximum
Depth



LED
Emitter



Wide
Angle



272 gr

Features

- Reduced design, optimized for helmet mounting.
- Same diameter as MC2 and MC3 video cameras, saving on mounts and fixtures.
- Compact housing, resistant to shocks and vibrations.
- Optics optimized for photography and video capture (prevents burn zones).
- Adjustable focus compatible with equipment between 0-24V.
- Compatible with all LVL HD equipment.





Valued for **its useful life, extremely long**, and for its quality/price ratio.



Technical specifications

Technology

Emitter LED 1x 3W

Power Supply

Voltage / Current 0~24VDC-AC/0.5A máx.

Performance

Luminous flux 400 lumens*
Color temperature 4500K
Maximum depth 100 m



FLD5 LIGHT

Underwater LED Lighting Equipment

Connection Types

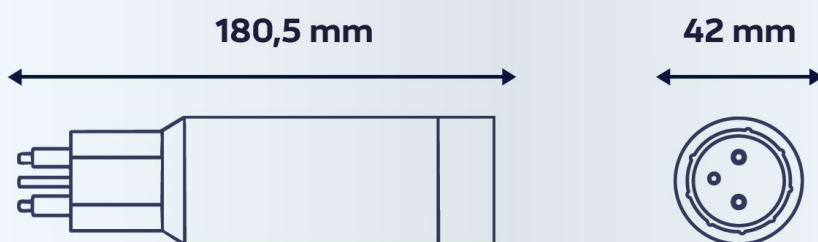


Standard SUBCONN
2-way

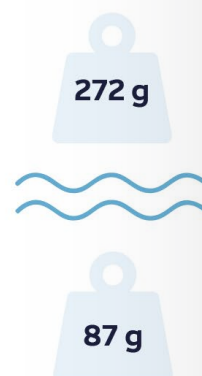


Optional Mini SUBCONN
2-way

Dimensions and Weight



* The actual luminous flux may vary slightly depending on equipment temperature.





FLD5 LIGHT



Front View



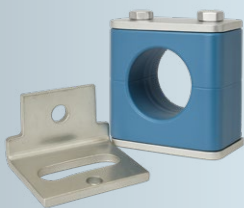
Actual size
High-quality LED emitter

Wide angle



100°

Optional Accessories



**Helmet mounting
kit**



**Underwater
Cable**



**12V power
supply**



FLD6 LIGHT

Subaquatic LED Lighting Unit



Versatile and compact

The **FLD6** is a compact underwater lighting system designed to deliver high luminous output in a reduced form factor.

The unit has been specifically engineered and optimized for integration with **MC2 and MC3** cameras in helmet-mounted configurations, ensuring unrestricted diver mobility. Its versatility makes it suitable for both illumination and imaging applications.



1500
Lumens



Maximum
Depth



LED
Emitter



Wide
Angle



650 gr

Features

- Reduced design, optimized for helmet mounting.
- Same diameter as the MC2 and MC3 video cameras, saving on mounts and fixtures.
- Compact housing, resistant to shocks and vibrations.
- Optics optimized for photography and video capture (prevents burn zones).
- Adjustable focus compatible with equipment between 0-24V.
- Maximum output with specific RS equipment.





Compact professional lighting, **ready for action.**



Technical specifications

Technology

Emitter LED 1x 12W

Power Supply

Voltage / Current 0~24VDC-AC /2.5A máx.

Performance

Luminous flux 1500 lm, adjustable up to 5000 lumens*
Color temperature 4500K
Maximum depth 100 m

FLD6 LIGHT

Subaquatic LED Lighting Unit

Connection Types

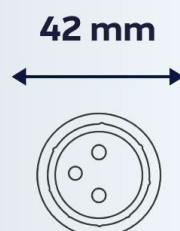


Standard SUBCONN
2-way



Optional Mini SUBCONN
2-way

Dimensions and Weight



The actual luminous flux may vary slightly depending on the equipment temperature





Front View



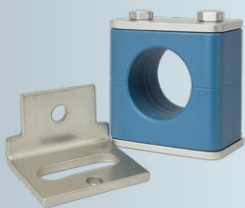
Actual size

High-quality LED emitter and seawater bronze radiator.

Wide-angle reflector



Optional Accessories



Helmet mounting kit



Underwater Cable



12V power supply

PNG2

Gas Panel



Stability Under Pressure

The **PNG2** system is a portable panel for controlling and monitoring the supply of breathable air for two divers.

It operates using a main cylinder, a reserve cylinder, and a high-pressure compressor (200 bar). It also provides the option to connect to a low-pressure compressor.

The system allows simultaneous operation of the high-pressure compressor and the use of the cylinders, enabling them to be refilled while still in use.



Communication
1&2



-20°C
+60°C

Thermal
Range

IP67
CLOSED

Protection
Case



650 gr

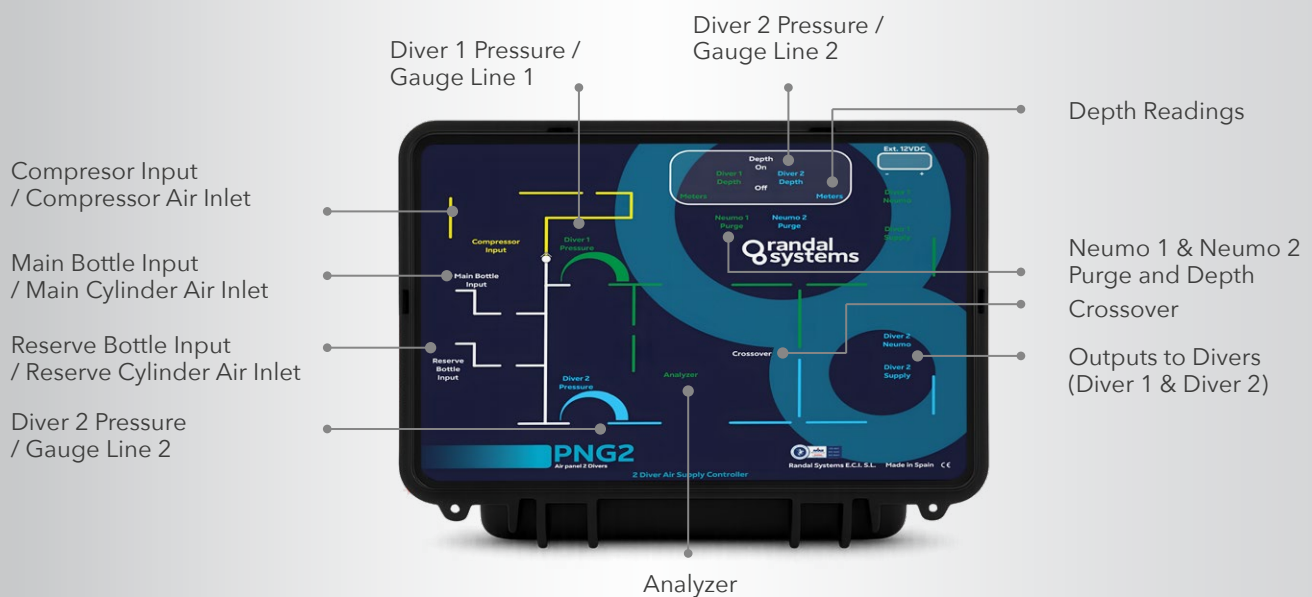
✓ Compact design, **professional results**

Features



- Supplies breathable air for two divers.
- Waterproof case (Protection IP67 - sealed).
- 12 VDC power input.
- Option to customize the unit with the client's branding/image.
- Supplies air via a main cylinder, a reserve cylinder, or a compressor, up to a pressure of 200 bar.
- Each line is equipped with a pneumodigital system that displays the diver's depth.
- Cylinder refilling through the unit itself.
- Air supply capacity for various emergency situations.

Control Panel



PNG2

Gas Panel

Technical specifications

Power Supply

Internal battery	12V.
External power input	12 V / 2.5 A max.
Protection	1 A fuse
Battery type	Sealed gel lead-acid, maintenance-free

Pressure

Pressure regulator	
Pressure gauge	35 bar (Low pressure)
Pressure gauge	200 bar (High pressure)

Depth

Pneumo	Electronic
---------------	------------





Dimensions

205 mm x 410 mm x 340 mm



PNG3

Gas Panel



Mobility and Safety

The **PNG3** system is a portable panel for controlling and monitoring the supply of breathable air for three divers, using a main cylinder, a reserve cylinder, and a standby cylinder.

It allows air supply and cylinder refilling through a compressor, up to a maximum of **200 bar**.



Communication
1&2



-20°C
+60°C

Thermal
Range

IP67
CLOSED

Protection
Case



47 kg



Compact design, **professional results**

Features



- Compact and portable unit for supplying breathable air to three divers.
- Individual depth monitoring for each diver through pneumo gauges.
- Air supply capacity in various emergency situations.
- Cylinder refilling through the unit.
- Three fully independent diver lines.
- Waterproof case with self-lubricating wheels and 12 metal butterfly latches.
- Option to customize the unit with the client's branding or visual identity.

Control Panel



INTERNAL MANAGEMENT / SAFETY

D1 & D2 Crossover

- Location: mid-right
- Function: allows supply exchange between Diver 1 and Diver 2 in case of failure.

Neumo Purge (1, 2, SB)

- Location: upper section, each marked by color
- Function: pneumatic line purge for safety and maintenance.

PNG3

Gas Panel

Control Panel Information

AIR INPUTS ●

Compressor Input

- Location: upper left (yellow)
- Function: direct input from a high-pressure compressor (max. 200 bar).

Main Input

- Location: middle left (white line)
- Function: input from the main air cylinder.

Reserve Input

- Location: just below the main input (white line)
- Function: input from the reserve air cylinder.

Stand By Input

- Location: lower left (orange)
- Function: dedicated supply for standby/emergency diver (SB).

DIVER 2 (Blue) ●

Diver 2 Pressure

- Location: mid-left center
- Function: pressure gauge showing the pressure delivered to Diver 2.

Diver 2 Depth (Meters)

- Location: upper right
- Function: pneumodigital depth indicator for Diver 2.

Diver 2 Analyzer

- Location: center right
- Function: analyzes air before delivery.

Diver 2 Neumo / Supply

- Location: mid-right section
- Function: final air delivery to Diver 2 + connection to depth indicator.

DIVER 1 (Green) ●

Diver 1 Pressure

- Location: upper middle left
- Function: pressure gauge showing the pressure delivered to Diver 1.

Diver 1 Depth (Meters)

- Location: top center
- Function: pneumodigital depth indicator.

Diver 1 Analyzer

- Location: middle right
- Function: analyzes air composition before being supplied.

Diver 1 Neumo / Supply

- Location: far right
- Function: final air delivery to Diver 1 + connection with depth indicator.

STAND BY / DIVER SB (Orange) ●

Diver SB Pressure

- Location: lower left section
- Function: pressure gauge for standby diver (SB)..

Diver SB Depth (Meters)

- Location: upper right (in orange)
- Function: depth indicator for the third diver or emergency diver.

Diver SB Analyzer

- Location: lower right section
- Function: analyzes air quality for standby diver.

Diver SB Neumo / Supply

- Location: bottom right corner
- Function: final air delivery to standby/emergency diver or third diver.



Technical specifications

Pressure

Pressure regulator

Manual regulator (high to low pressure)

Pressure gauge

0 - 60 bar (High pressure)

Pressure gauge

0 - 250 bar (High pressure)

Depth

Pneumo

0 - 70 m

Dimensions

718mm x 1178mm x 427mm

14 kg



Umbilicals

for breathing gases and
multifunction electrical cables



Maximum Operational Safety

At **Randal Systems** we offer a selection of umbilicals for a wide range of applications, including deep diving and operations in hazardous areas.

Our products are manufactured with fatigue-resistant materials, offering great flexibility and high abrasion resistance. In addition, they undergo rigorous VOC cleaning tests, ensuring safe and long-lasting performance.



Lengths:
25 m to 250 m



Elements:
4 elements



Subconn
Connector



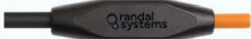
Military
Connector



Mesh
Sheath

Custom Configuration

Randal Systems provides advice to offer you the best hose and termination configuration, both underwater and surface. In this way, we manufacture tailor-made solutions that are functional and cost-effective, according to your application and needs.

Wet Zone		Hoses		
Breathing Gases				
	Gas (blue hose)	LN: Fibroline LT: Fibrolite (For detailed specifications, see next page)		Gas (blue hose)
	Pneumo (yellow hose)			Pneumo (yellow hose)
Multifunction Electrical Cables				
Subconn	Resin model	Lengths available	Military Connector and/or Banana Plugs	
1 		 50m 125m 150m 200m	M 	B 
2 			M 	MB 
3 			MB 	
Code		NL	150	
Ordering Example			MB	

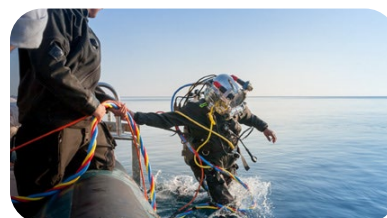
Applications



Surface-supplied diving



Saturation diving



Civil and coastal diving



Bell diving



Military diving



Hazardous areas

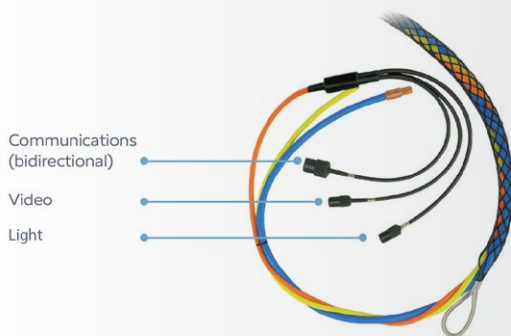
Umbilicals

for breathing gases and
multifunction electrical cables

Innovation

Multifunction Electrical Line

At Randal Systems we use an innovative configuration with a single line that transmits all electrical signals without interference. This results in a lighter assembly and reduced cost.



Connection Module

Randal Systems integrates this solution developed by our R&D department, ensuring an efficient and robust connection between the electrical line and connectors. It is designed with compact dimensions and resin encapsulation to guarantee perfect sealing.



Quality Assurance

Our range of umbilicals is endorsed by Fibron, the leading company in the sector with over 25 years of experience in the professional subsea industry. These products comply with the EN15333-2:2009 standard for open-circuit diving umbilical air supply equipment.

Internationally, they are certified by major standards organizations including Lloyd's Register of Shipping (LRS), Det Norske Veritas (DNV), American Bureau of Shipping (ABS), and the International Marine Contractors Association (IMCA).

Accessories



Cable Grip



Fibrolite / Fibrolite

The range of low-pressure sheathed umbilicals Fibrolite / Fibrolite are designed for use in surface diving and bell exit work, where resistance to abrasion and torsion are a top priority. They are specially adapted for maintenance and repair tasks. Other applications may include the use in breathing apparatus for inspections of gas tanks and other hazardous environments.

- **Fibrolite umbilicals** have a thicker, more robust sheath for tougher environments.
- **Fibrolite umbilicals** have a sheath optimized for standard working environments, with a thinner design at a very attractive price point.

Comms Cable – DCS 0001		
0.50mm ² STP	Conductor resistance @ 20°C Resistance (core – core) Resistance (core – screen) Operating voltage	41.5 Ω/Km (maximum) 500 MΩ/Km (minimum) 250 MΩ/Km (minimum) 500 V (maximum)
Mini TV Cable – DCS0005		
1.34mm ² STP	Conductor resistance @ 20°C Resistance (core – core) Resistance (core – screen) Operating voltage	15.0 Ω/Km (maximum) 500 MΩ/Km (minimum) 250 MΩ/Km (minimum) 500 V (maximum)
0.50mm ² STP	Conductor resistance @ 20°C Resistance (core – core) Resistance (core – screen) Operating voltage	15.0 Ω/Km (maximum) 500 MΩ/Km (minimum) 250 MΩ/Km (minimum) 500 V (maximum)
0.22mm ² STP	Conductor resistance @ 20°C Resistance (core – core) Resistance (core – screen) Operating voltage	15.0 Ω/Km (maximum) 500 MΩ/Km (minimum) 250 MΩ/Km (minimum) 500 V (maximum)
1.34mm ² Single Core	Conductor resistance @ 20°C Resistance (core – core) Resistance (core – screen) Operating voltage	15.5 Ω/Km (maximum) 500 MΩ/Km (minimum) 250 MΩ/Km (minimum) 500 V (maximum)
Mini Coax	Conductor resistance (inner) @ 20°C Conductor resistance (outer) @ 20°C Impedance:	147.0 Ω/Km (maximum) 36.5 Ω/Km (maximum) 75 Ω

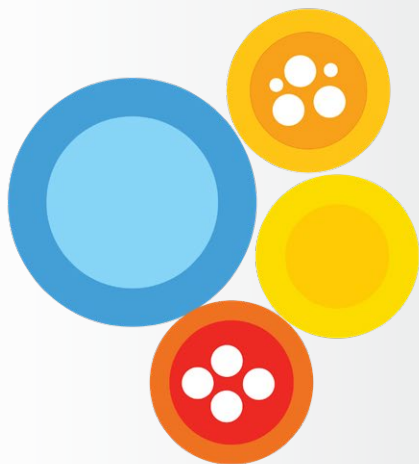
Umbilicals

for breathing gases and
multifunction electrical cables

Fibrolite Umbilical Specifications

Umbilical Dimensions		-04	-06	-08
Specification		FL104	FL106R	FL108
Maximum working pressure	atm / bar	27,2 / 27.5	34,0 / 35	27,2 / 27.5
Minimum burst pressure	atm / bar	108,8 / 110	136,0 / 140	108,8 / 110
Nominal core	in / mm	1/4" / 6.35	3/8" / 9.50	1/2" / 12.50
Outer diameter	mm	11.50	17.50	18.50
Weight in air	kg/km	82	194	167
Weight in seawater	kg/km	-25	-53	-109
Minimum bending radius (operational)	mm	75	115	120
Standard color		Yellow	Blue	Red

Fibrolite Air Dive Umbilical



- A. Fibrolite 3/8" Gas hose – FLT06R (Blue)
- B. Fibrolite 1/4" Pneumo hose – FLT04 (Yellow)
- C. Comms Cable – DCS0001 (Red)
- D. Mini TV Cable – DCS0005 (Orange)



Fibroline Umbilical Specifications

Umbilical Dimensions		-03	-04	-06	-08	-10	-12
Maximum working pressure	atm / bar	34,0 / 35	34,0 / 35	34,0 / 35	34,0 / 35	34,0 / 35	34,0 / 70
Minimum burst pressure	atm / bar	340,2 / 345	170,11 / 172	272,1 / 276	272,1 / 276	272,1 / 276	408,2 / 414
Nominal core	in / mm	3/16" / 5.10	1/14" / 6.35	3/8" / 9.53	1/2" / 12.70	5/8" / 15.80	3/4" / 19.30
Outer diameter	mm	11.00	12.50	18.50	21.50	24.25	30.60
Radio de dobléz mín. (operacional)	mm	72	82	121	140	158	199
Minimum bending radius (operational)		FBL 03T	FBL 04P	FBL 06G	FBL 08G	FBL 10G	FBL 12G
Weight in seawater	kg/km	81	101	227	270	303	502
Weight in seawater	kg/km	-16	-25	-49	-102	-171	-252
Standard color		Green	Yellow	Blue	Blue	Blue	Blue
Hot Water Umbilical Specifications		FBL 03H	FBL 04H	FBL 06H	FBL 08G	FBL 10G	FBL 12G
Umbilical / Umbilical filled with water	kg/km	81 / 101	81 / 133	227 / 298	270 / 397	303 / 499	502 / 786
Weight in seawater (filled umbilical)	kg/km	4	7	23	24	25	31
Standard color		Red	Red	Red	Red	Red	Red

SRP4/50

Scuba Replacement Package 2 / 3 Divers



Strength and Innovation

The **SRP4/50** from Randal Systems is a diving equipment system suitable for installation on both vessels and land-based operations.

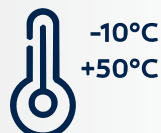
It includes a breathing air control panel for 3 divers, 4 air cylinders (50 L / 200 bar), a DIVECOM III communication system (3 divers), CCTV LVL3+HD (3 divers + surface video camera), high-power surface PA system, and monitors: 2 x 32" and 1 x 15"



2 to 3 divers



Communication



Thermal
Range



CCTV



Gas
Panel

Features

- Structure for 4 cylinders of 50 L at 200 bar, gas control panel, communications, and CCTV.
- Available with or without umbilicals.
- Supply divided into 3 lines (3 divers).

Communications

Divecom III

Communication
equipment for 3
divers





Technical specifications

Gas: Breathing Air

Maximum air depth 50m

Finish: Oven-coated / painted

Weight (Approx.) 550kg

Dimensions (Approx.): 1870 x 1722 x 610mm (open)

Dimensions (Approx.) 1870 x 1200 x 610mm (closed)

Umbilical housing: Optional

Material Steel, stainless steel, bronze, methacrylate

Communications equipment: DIVECOM III

CCTV LVL3 +HD

Monitors: 2 x 32", 1 x 15"

Monitors

2 x 32" monitors
with 230 VAC
power supply



SRP4/50

Scuba Replacement Package 2 / 3 Divers

CCTV LVL3+HD

CCTV equipment

for 3 divers + surface input



Gas Panel PNG 3SCB 1

Air supply

control panel

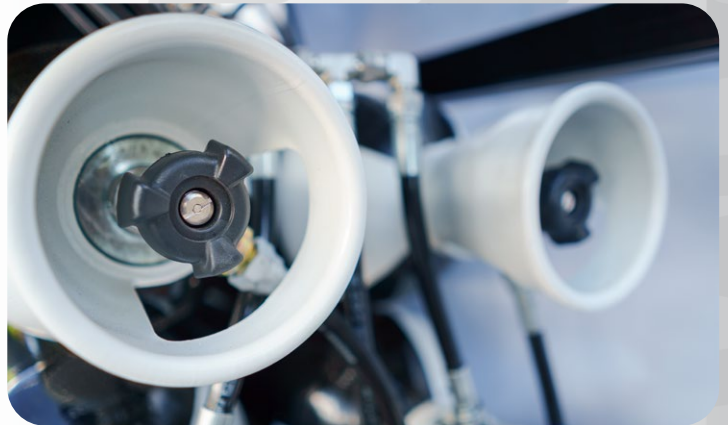




Gas Cylinder

4 × 50L / 200 bar air cylinders, available in:

- Aluminum
- Steel
- Composite



Connectors



Optional Accessories

- Splash-proof shield
- Custom removable protective canopy
- Support structure for 2 × 100m umbilicals
- Full vinyl customization

RP3

Person Recovery Lifter



Safety device for recovering people. Foldable, capable of lifting, lowering, and rotating heavy loads of up to **300 kg**. Includes 20 m of cable, optionally extendable.

Available with three anchoring methods (floor-mounted, counterweight with water tank, and platform). Offers both electric and **manual lifting**.



Communication
1 Diver



Electric and
manual



Thermal
Range



Weight

Features

- Lifting capacity of up to **300 kg**.
- Three mounting combinations:
 - RP3**: floor-mounted base.
 - RP3-acc1**: structure with counterweight (water tank).
- Easy **360° rotation** on its axis.
- Adjustable height with 4 positions.
- Easy to disassemble and transport.



Technical specifications

Weight:

Ref. RP3.B1: 61 Kg

Ref. RP3.B2: 15 Kg

Ref. RP3.B3 : 51 Kg + Water tank (300 L)

Dimensions:

Ref. RP3.B1: 1943.37x1656.95x128 mm

Ref. RP3.B2: 300x300x410 mm

Ref. RP3.B3 : 2000x2470x1225 mm

Material:

Steel

Color:

Blue. Oven-painted.

Cable:

Length: 20 m. Optionally extendable.

Diameter: 6 mm

Maximum Load: 300 kg

RP3
Model



RP3
Accessory 01



Modular Lifting Equipment





Contact
info@tieronesupply.com