



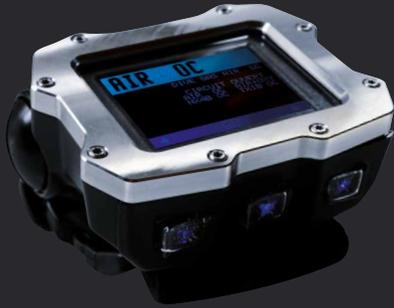
ADVANCED PLATFORM DIVE COMPUTER

# MDC150™

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Since the introduction of its first datalogging air dive computer in the late 1980's through to the World's first mixed gas decompression algorithms, Avon Underwater Systems have been at the forefront of diving computer designs and decompression physiology.

Through our ties with Academia we continue to pioneer decompression thinking. Probabilistic decompression modeling, advanced data handling and communication systems are also core elements of our expertise, paving the way for the life support monitoring systems of the future.

All computer products are fully reconfigurable and client decompression tables and procedures can be included.

STANAG compliant systems are also an option.

Our computer platforms are also deployed as real-time data/decompression loggers in surface supply diving operations.

## NATO DIVE COMPUTER / FEATURES

<b>Gases</b>	Air, Nitrox, Trimix, Heliox.
<b>Configuration</b>	Open circuit, closed circuit (CC), semi-closed circuit (SC). SC and CC modes.
<b>Identification</b>	Each unit has a unique ID.
<b>Temperature ranges</b>	<ul style="list-style-type: none"><li>■ Operating Temperature Range: +4°C to +32°C</li><li>■ Short-Term (hours) Temperature Range: -10°C to +50°C</li><li>■ Long-Term Storage Temperature Range: +5°C to +20°C</li></ul>
<b>Construction</b>	Injection molded plastic. Oil filled with compatible depth sensor packaged internally (not exposed to sea water). User replaceable battery compartment.
<b>Carry case</b>	Water proof hard-case.
<b>Depth rating</b>	150m (calibrated).
<b>Turn on system</b>	Depth >0.3m activated.
<b>Turn off system</b>	Auto – depth <0.3m for 10 minutes.
<b>Client customisation</b>	Customisation is possible based on client requirements.
<b>Battery system</b>	<ul style="list-style-type: none"><li>■ User replaceable 3.6v battery</li><li>■ Battery life with backlight set to minimum is 35 hours diving</li><li>■ Battery status display with charging indicator</li></ul>
<b>Mounting system</b>	<ul style="list-style-type: none"><li>■ Wrist strap (standard)</li><li>■ Lanyard adapter (optional)</li></ul>
<b>Display type</b>	High resolution LCD.
<b>Backlight</b>	LED with user selectable AUTO and USER adjust modes. Auto-dim feature (power save).
<b>Display protection</b>	Raised surround with replaceable adhesive protection screen.
<b>Switches</b>	3 control switches (Next, Select Home). Tactile feedback with illumination to identify feature selection.
<b>Alarm type</b>	Visible on screen and audible.
<b>External connections</b>	<ul style="list-style-type: none"><li>■ Bluetooth data download</li></ul>
<b>Gases Number</b>	10 gases with feature to change mix while diving if needed. Decompression prediction is based on current gas list with auto-recalculate if mix changes.
<b>Gas switch modes</b>	Manual. Based on display alarm, user button activation and user pre-defined MOD of gas.
<b>Surface interval effects calculated in dive, dive planning and simulator modes</b>	Yes.

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### Dive display features

- Maximum depth (secondary info. screen)
- Current depth
- Dive time
- Depth of the next decompression
- Time of the next decompression stop
- Depth and time of all decompression stops (secondary info. screen)
- No-stop dive time
- Total decompression time (Time To Surface – TTS, including ascent @10m/min)
- Rate of ascent
- Breathing mixture used (secondary info. screen)
- PO2 used (fixed PO2 in CC mode)
- Temperature (secondary info. screen)
- CNS % (secondary info screen)
- Equivalent Gradient factor (secondary info. screen)
- Flytime
- Total desaturation time
- Decompression ceiling display (non-fixed stop decompression mode)
- Atmospheric pressure (secondary info. screen)
- Diluent PO2 at current depth

### User selectable features (via menu system)

- Shallow decompression stop (3m or 4.5m)
- Decompression ceiling mode
- CNS% alarm limit
- Units (metric/imperial)
- Backlight modes
- Algorithm

### Logbook display

- Max. depth
- Total dive time
- Any violated decompression
- Surface interval
- Gases used
- PO2(s) used
- Current CNS load (after surface interval)
- A dive graph of depth and time
- A dive graph of temperature versus time
- Atmospheric pressure

### Dive log memory

Expandable.

### Algorithms

Switchable at surface between;

- US Navy (option)
- Buhlman ZHL16C
- Avon Underwater Systems Variable gradient Model algorithm (Buhlman ZHL16C based with variable gradient factors overlay)
- Customer algorithms can be programmed

### Decompression lock-out

No lock-out after violated decompression. Re-entry into water will provide 'best guess' decompression with 'missed decompression' warning.

### Altitude setting

Automatic.

### 'On-dive computer' planning mode

- Next dive entry after current or selectable interval and current inert gas load
- Dive mode switch – OC to CC/SC etc.
- Next dive gas selection

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## NATO DIVE COMPUTER / FEATURES

### Alarms

- MOD of gas
- Gas switch advised
- CNS limit
- Ascent rate <10m/min
- Low battery
- Missed decompression
- Hypoxic mixture at current depth (OC mode)

### Simulate mode

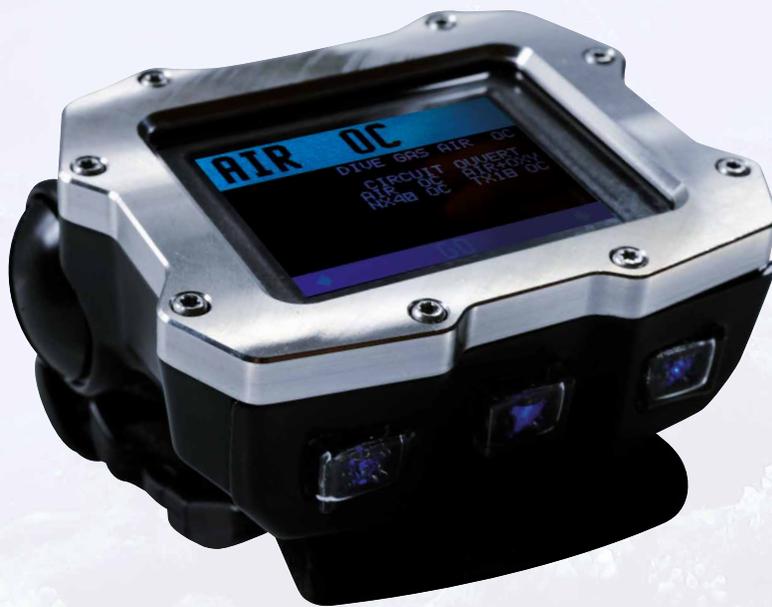
On-unit simulate mode to allow user training.

### Dive planning mode

On-unit dive planning based on current gas list, user selectable surface interval and prior dives tissue loading.

### Date/Time

User setting of date/time.



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