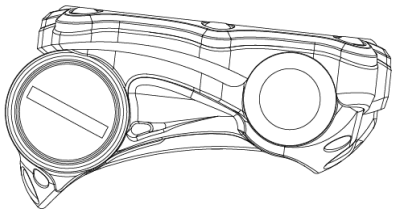
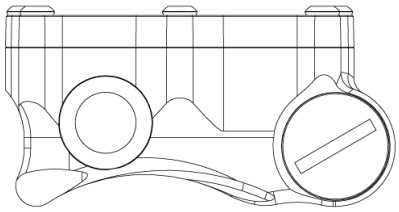
Perdix vs. Petrel 2 Comparison

Feature	Perdix	Petrel 2
Size (dimensions)	81 x 71 x 38 mm (3.2” x 2.8”, 1.5”)	83 x 74 x 39 mm (3.26” x 2.9” x 1.53”)
	  Despite the similar bounding box dimensions, the Perdix is thinner and more highly contoured for a reduced profile on the wrist. Note: The Perdix image has been flipped for the above comparison	
Size (volume)	110 cm^3	160 cm^3
Weight	152 g (0.34 lbs) includes AA alkaline battery	218 g (0.48 lbs) includes AA alkaline battery
Apparent Weight in Water (a value of 0 is desirable, as indicates neutrally buoyant)	42 g (0.09 lbs) includes AA alkaline battery	60 g (0.13 lbs) includes AA alkaline battery
Display	2.2”, QVGA, Full-Color LCD with always on LED backlight	2.4”, QVGA, Full-Color LCD with always on LED backlight
Display Color Range	35% NTSC	22% NTSC
Wrist Attachment	2 x ¾” Elastic Straps with locking buckles + Integrated Bungee Holes (3/16” cord)	2 x ¾” Elastic Straps with locking buckles
Battery Life (Saft LS14500, 3.6V Lithium)	**Brightness** / **Hours** Cave 230 Low 200 Med 130 High 100	**Brightness** / **Hours** Cave 160 Low 130 Med 100 High 70

Perdix vs. Petrel 2 Comparison

Feature	Perdix	Petrel 2
Battery Life (1.5V Alkaline)	Brightness / Hours Cave 100 Low 76 Med 50 High 36	Brightness / Hours Cave 70 Low 46 Med 38 High 26
User replaceable battery	YES Double O-ring seal	YES Single O-ring seal
Deco Tissues and Clock restored on battery change	YES stored in permanent memory every 16 seconds	YES backed up by super-capacitor
Settings retained on battery change	YES all setting saved in permanent memory	YES all setting saved in permanent memory
Decompression Model	• Bühlmann ZHL-16C with GF (standard) • VPM-B (optional upgrade)	• Bühlmann ZHL-16C with GF (standard) • VPM-B (optional upgrade)
Models	• Stand alone	• Stand alone • Fischer (connector for rebreather PPO2 monitoring) • DiveCAN (only sold as rebreather original equipment)
Operating Modes	• Open Circuit Tec (Trimix) • Closed Circuit - Fixed PPO2 • Open Circuit Rec (Air and Nitrox) • Gauge (Bottom Timer)	• Open Circuit Tec (Trimix) • Closed Circuit - Fixed PPO2 • Open Circuit Rec (Air and Nitrox) • Gauge (Bottom Timer) • Closed Circuit - External PPO2 (Fischer & DiveCAN models only) • Semi Closed - External PPO2 (Fischer model only)
Gases	5 each mode (Air, Nitrox, Trimix)	5 each mode (Air, Nitrox, Trimix)
Gauge (Bottom Timer) Mode	YES	YES

Perdix vs. Petrel 2 Comparison

Feature	Perdix	Petrel 2
Communications to laptop / desktop / mobile	Bluetooth Smart Ready (dual mode 2.1 / 4.0)	Bluetooth Smart Ready (dual mode 2.1 / 4.0)
Firmware Upgrades	YES via Bluetooth	YES via Bluetooth
Dive Planner	YES	YES
Units	Metric and Imperial	Metric and Imperial
Buttons	2 Piezoelectric buttons	2 Piezoelectric buttons
Compass	YES Tilt compensated	YES Tilt compensated
Launch Date	Jan 2016	Oct 2014 – Petrel 2 Sept 2012 – Petrel 1

Summary

The Perdix improves on the Petrel 2 by featuring:

- Significantly reduced thickness
- Double O-rings on the battery cap
- Integrated bungee mount holes
- Improved color on the display
- 30% longer battery life

The firmware feature set is identical to the Petrel 2. The Perdix inherits Shearwater's mature, easy to use, and well validated firmware. Both the Perdix and Petrel 2 will continue to be supported moving forward with free firmware updates.

The Perdix is a stand alone only product, meaning that there is no model with a connection to a closed circuit rebreather. The Perdix does have a closed circuit mode using fixed PPO2 setpoints (as does the Petrel 2). The Petrel 2 Fischer and DiveCAN models will continue to be sold for users requiring a connection to a rebreather.

The Perdix display is slightly smaller than the Petrel, at 2.2" vs. 2.4". The Perdix display, however, features better color, higher contrast, and lower power consumption.