

Technology



DC-SAPIENCE II

[PAT.P.] **IQ-850**

- Advanced ultra-thin wrist computer
- Air, Nitrox, Gauge, and Time Operating Modes
- Dot matrix tissue compartment/message display window
- 2 Mix Switching Feature: Mix 1 (Air, 21-99%), Mix 2 (21-99%)
- Large alphanumeric and backlit display
- Vibration, Audible and Flashing Alarms
- 25 dive/hour Log memory
- Manual or Water-Activation
- Advanced user safety settings and alarms
- Automatic altitude adjustment to 19,680'/6000m
- No fly icon, residual nitrogen discharge display
- PC downloadable with TUSA DiveLogbook software
- Variable Ascent Rate Indicator
- User-replaceable battery with hot-swap (Battery: CR2032)
- TUSA Algorithm based on 12 compartment Swiss-Bohrer model



• Residual Nitrogen Display at Altitude

This example illustrates the IQ-850 12 tissue compartment display and residual nitrogen at altitude. The minus "-" above each line illustrates off-gassing and the corresponding loading level.



• Additional Safety for Travel

The IQ-850 monitors tissue loading and displays each compartment individually. It notifies the user exactly when the time to travel could occur safely after diving.



• Nitrogen Saturation During Dives

The IQ-850 monitors and displays 12 tissue compartments and the corresponding saturation levels of each during a dive allowing the user to know exact information for a safe dive.



Features

• Air, Nitrox, Gauge and Time Operating Modes

Fully functional air and nitrox computer with gauge and time displays.

• Dot-Matrix Display Profile function

Stores and displays the dive depth and profile every 30 seconds while diving in the bar-graph.

• Advanced User Safety Settings (USF)

4-step decompression calculation can be set to ensure a higher-level of safety.

• 2 Mix Switching Feature/Nitrox setting

Oxygen ratio of MIX1: 21~99% Setting interval: 1%
Oxygen ratio of MIX2: 21~99% Setting interval: 1%

• Log function

Total dive number (max. 25 dives), total dive time (max. 25 hours) and largest dive depth (max. 328ft/99.9m) can be stored and displayed.

• Vibration, Audible and Flashing Alarms

The IQ-850 is the world's only computer with a vibration alarm.

• Measurement range

Depth: 0 to 328ft/99.9m Measurement interval: 1 second Dive Time: 0 to 599 minutes (gauge mode: 0 to 1199 minutes)
Altitude: 0 to 19680ft/6000m Measurement interval: 10 minutes (not including dive mode, PC transfer mode)

Temperature: 23 to 104°F/-5 to +40°C (Accuracy +/-4F/2C)
Measurement interval: 1 minute (only measured in dive mode)

• Depth Range

Depth Range: 328ft/99.9m

• User Replaceable Battery

Simple user-replaceable battery with approximate 1.5 year life (Battery: CR2032)

Based on: 50 one-hour dives per year, using the display backlight for 10 seconds every day, with a 10 second vibration (or alarm) warning every dive.

• Watch function

Watch with fully automatic calendar up to 2099 (With day of the week display, 12 hour or 24 hour display selector, daily alarm function)

• Lens protector attached

• Ultra-thin design



• PC Downloadable with optional IQ-800/850 USB Interface

