

## Specifications:

### DACAD DiverSide Specifications:

Size: O2" x 11" long  
Weight: 1.5lb (submerged)  
Battery Life: 3-6 hours (1)  
Modem Frequency: C- Band 22-27 kHz (2)  
Modem Bandwidth: 5kHz2  
Modem Baud Rate: max 1,200 bps (2)  
Range: up to 1.25 nm (3)  
Shock Absorbance: floating cage PCB mounts  
Enclosure: 316 SS  
Depth Rating: 320'  
DiverSide RF Data Link Reception:  
Frequency: 129 kHz  
Underwater Range: 6 (4)

### DACAD DiverSide WMD (Wrist Mounted Display) – In Development:

DiverSide RF Data Link Range: 6'  
Size: 6" long x 5" wide (7)  
Weight: 1/2 lb (submerged)  
Battery Life: up to 12 hours (7) (rechargeable)  
Construction: 316 SS (7)  
Seals: double O-ring (7)  
Depth Rating: 320' (7)  
Text Messaging: bi-directional pre-loaded and 'on the fly' (7)

### DACAD TopSide Monitoring Computer

Type: Panasonic Toughbook CF-19 (8)  
Screen: 10.4", 1,000 nit sunlight viewable tablet touch screen  
Processor: Intel Core 2 Duo Processor SU9300  
Ram: 2 Gig  
Design: MIL-STD-810F, IP54, all weather  
Case: Magnesium Alloy  
Weight: 5.1 lb  
Battery Life: 10 hours (8)  
Hard Drive: Quick removable, shock resistant, 80 gig  
GPS: Built in GPS receiving aerial  
Concept screen of DACAD DiverSide WMD.

### DACAD DiverSide HP Transmitter Specifications:

DiverSide RF Data Link Range: 6'  
Size: O 1" x 2.5" long  
Weight: 1/4 lb (submerged)  
Battery Life: 1,200 transmit hours (5)  
Battery Charging: Induction, Non Contact Rechargeable (6)  
Construction: 316 SS enclosure with Acetyl Cap  
Depth Rating: 320'  
Maximum Tank Pressure: 5,000 psi

### DACAD TopSide DPC (Direct Positioning and Communications) – In Development:

This unit is under development and will be integrated into the DACAD system. The initial design performance targets are (this information is subject to final testing and development):  
Range: 1.25 nm  
Position Accuracy: +/- 1m3  
Bearing to Diver: +/- 1 degree  
The physical dimensions and full performance are yet to be finalised.

#### Notes:

- 1 Dependent on data transmission and information update rates. An additional booster battery pack will be released soon that could extend battery life to more than 12 hours.
- 2 Based upon information published by Teledyne Benthos on the Compact Modem. Future developments include higher maximum frequency and increased bandwidth.
- 3 Based on sea trials in April 2008
- 4 Physical measurement in dive training pool, December 2008.
- 5 Unit only transmits when pressurised.
- 6 Currently under development
- 7 Based upon current design parameters and subject to change as the development programme progresses.