

# PandaADCP-DR-300K

200m, 1000m, 3000m, 6000m direct - reading ADCP



## TECHNICAL SPECIFICATIONS

| Brand                                              | PandaADCP                                                               |                           |                           |
|----------------------------------------------------|-------------------------------------------------------------------------|---------------------------|---------------------------|
| Working Frequency                                  | 300kHz                                                                  |                           |                           |
| Operating Mode                                     | Direct-Reading                                                          |                           |                           |
| Batteries                                          | No Batteries                                                            |                           |                           |
| Water Profiling Range<br>(Broadband / Narrowband ) | 120m/160m                                                               |                           |                           |
| Bottom Track Range                                 | 220m                                                                    |                           |                           |
| Velocity Accuracy                                  | ±0.5%±5mm/s                                                             |                           |                           |
| Velocity Resolution                                | 1mm/s                                                                   |                           |                           |
| Velocity Range                                     | ±5.0 m/s (Default); ±20.0 m/s (Maximum)                                 |                           |                           |
| Number of Depth Cells                              | 1 - 255                                                                 |                           |                           |
| Ping Rate                                          | 2Hz(typical)                                                            |                           |                           |
| Depth Cell Size(High Precision Mode)               | 1-8m                                                                    |                           |                           |
| Depth Cell Size(Long Range Mode)                   | 8m                                                                      |                           |                           |
| Echo Intensity Dynamic Range                       | 100dB                                                                   |                           |                           |
| Echo Intensity Precision                           | ±1.5dB                                                                  |                           |                           |
| Standard Profiling Modes                           | High resolution water profiling, Fast sampling                          |                           |                           |
| Beam Angle                                         | 20°                                                                     |                           |                           |
| Beam Width                                         | 3.5°                                                                    |                           |                           |
| Beam Configuration                                 | 4-beams, convex                                                         |                           |                           |
| Internal Memory                                    | 64 GB Micro SD Card                                                     |                           |                           |
| Communications                                     | RS - 232 or RS - 422                                                    |                           |                           |
| Sensor (Water Temperature )                        | Range: -5°C to 45°C, Accuracy: ±0.1°C                                   |                           |                           |
| Sensor (Pressure                                   | Range: according to depth rate, Accuracy: ±0.25% Range                  |                           |                           |
| Sensor (Compass )                                  | Range: 0°-360°, Accuracy: 2° RMS, Resolution: 0.01°                     |                           |                           |
| Sensor (Tilt)                                      | Range: Roll ±180°   Pitch ±90°, Accuracy: < 0.1° RMS, Resolution: 0.01° |                           |                           |
| Operating Temperature                              | -5°C to 45°C                                                            |                           |                           |
| Storage Temperature (Without Batteries)            | -30°C to 60°C                                                           |                           |                           |
| Power Input                                        | 20V - 50V, 5A                                                           |                           |                           |
| Casing                                             | Titanium alloy                                                          |                           |                           |
| Weight(In air/In water)                            | 4.2 kg/3.1 kg<br>(200m/1000m)                                           | 6.6 kg/5.0 kg<br>(3000m)  | 7.8 kg/6.0 kg<br>(6000m)  |
| Dimension(Exclude top connector)                   | Φ224 mm×136 mm<br>(200m/1000m)                                          | Φ230 mm×159 mm<br>(3000m) | Φ230 mm×164 mm<br>(6000m) |
| Available Options                                  | External battery case, Bottom tracking, AC/DC power converter           |                           |                           |

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Specifications subject to change without notice.

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