

# Earthmate<sup>®</sup> PN-40



GPS for Serious Outdoor Adventures

## Technical Specifications

### Physical

- IPX7 waterproof standard, impact-resistant rubberized housing
- Device dimensions: 2.43" W x 5.25" H x 1.5" D
- Weight: without batteries: 5.35 ounces; with Li-Ion rechargeable: 6.7 oz; with 2 alkaline AAs: 7.00 oz.

### Performance

- A dual-core processor for lightning quick map redraws, when panning or zooming
- Fast USB 2.0 data transfer to internal memory or SD card in device
- Proprietary Kalman filter for enhanced GPS accuracy
- Detailed onboard base map with major streets and highways worldwide, plus secondary roads in the U.S.

### Sensors

- 3-axis electronic compass with included accelerometer performs when held in any position
- Sensitive barometric altimeter for reliably accurate altitude readings

### Power

- Uses 2 AA batteries (included)
- Optional Travel Power Kit with DeLorme-supplied rechargeable Li-Ion battery

### Receiver

- Super high-sensitivity 32-channel Cartesio chipset by STMicroelectronics for rapid signal acquisition and ConstantLock™ satellite retention, even in challenging GPS environments

### Acquisition Times:

- Hot start: 5-6 seconds
- Warm start: < 45 seconds
- Cold start: < 60 seconds
- Update rate: 1/second, continuous

### GPS accuracy:

- Position: < 15 meters, 95% typical
- Velocity: 0.05 meter/sec steady state

**WAAS accuracy:** Position: < 3 meters, 95% typical

**Display:** Sharp high-resolution 2.2" 65K-color Transflective TFT color display (220 x 176 pixels)

### Memory & Storage

- 1 GB internal Flash memory (500 MB user-available)
- Supports SDHC high-capacity SD cards – up to 32 GB
- Holds up to 100 routes; GPX file support for saving waypoints and tracks on device or to an SD card with no maximum limits