



## EASY-TO-USE AND EASY-TO-OWN MOBILE MAPPING

# MobileMapper

### INDUSTRIAL STRENGTH MAPPING SOLUTIONS

MobileMapper™ is a mobile mapping system combining full GIS data collection and navigation software in a handheld GPS receiver. It is backed by powerful office support software for easy data display, editing and export. Anyone managing assets in the field - utility workers, foresters, farmers, resource managers - can use MobileMapper to create or update maps for analysis and storage in a Geographic Information System.

### EASE OF USE

MobileMapper includes the features most users really need - without the burden of overly complicated, rarely used functions. Both the field and office software are specially designed for ease of use ensuring that minimum training is required. The MobileMapper receiver can display ESRI shape files in full-color maps so it is easier to work with even complicated and unfamiliar GIS data sets.

### THE HIGHEST PERFORMANCE-TO-PRICE RATIO IN THE MARKET

MobileMapper's internal WAAS/EGNOS receiver provides 2-3 meters of accuracy in real-time. The new post-processed differential correction option improves accuracy to less than 1 meter. The MobileMapper receiver operates for over eight hours on two AA batteries; there are no expensive battery packs and recharging units to purchase. Data



transfer to your PC is handled via a simple serial or USB cable but can also be transferred using a removable SD card. MobileMapper is also highly shock resistant and completely waterproof so you know it can withstand the hazards of your professional fieldwork. All together, MobileMapper's high performance-to-price ratio and user-friendly features make it easier to deploy and easier to use than any other mobile mapping solution on the market today.

### System Components

- MobileMapper receiver and data collection software
- MobileMapper Office software
- Receiver-to-PC serial data cable
- 16 MB SD card
- Getting Started Guide and User Manual
- 2 AA Li-ion batteries

### GPS Accuracy (Horizontal, 95%)

- Real-Time Autonomous: 7-10 m
- Real-Time with WAAS/EGNOS < 3 m
- Post-Processed: < 1 m
- All accuracies assume an open sky environment, #SVs > 5 and PDOP < 4

### Receiver Components

- 12 independent GPS (L1 code and carrier phase) and WAAS/EGNOS channels
- RS232 port for outputting GIS/GPS data and NMEA messages and inputting RTCM corrections and external power
- Quadrifilar helix antenna with multipath rejection

### Internal Memory Capacity

- 4 MB RAM
- 16 MB internal, removable SD card; upgradable to higher memory cards

### Physical Characteristics

#### Weight

- 0.22 kg (.48 lb)

#### Size

- 16.5 cm H x 7.3 cm W x 3 cm D  
(6.5 in H x 2.9 in W x 1.2 in D)

#### User Interface

- Color display with backlight: 5.6 cm H x 3.9 cm W  
(2.2 in H x 1.6 in W)
- Display resolution: 120 x 160
- Keyboard with backlight: 12 buttons

### Power Characteristics

- Battery type: 2 AA-cell internal
- Battery life: 8 hours with backlight and Li-ion batteries @ 25°C (77°F); 16 hours with with backlight off
- External power port for extended operation time

### Environmental Characteristics

- Operating Temp.: -10°C to 60°C  
(14°F to 140°F)
- Storage Temp.: -20°C to 70°C  
(-4°F to 158°F)
- Weather: IEC-529 IPX7 Standard  
(withstands water immersion for > 30 min. at depth of 1 m)
- Shock: 1.5 meter (4.9 ft) drop to concrete

### Emissions Certification

- Immunity (EN 55022 Class B)
- Susceptibility (EN 50082-1)
- FCC and CE certified

### MobileMapper Field Software

MobileMapper field software combines GIS data collection functions with full navigation features. Key GIS data logging capabilities include:

- GIS feature libraries for logging feature descriptions
- Support for logging point, line and area features
- Offset function for logging hard to reach features
- Nesting function for logging features without closing other features already being logged, e.g., inserting a telephone pole while mapping a road
- Repeat feature function for rapid logging of features with identical descriptions, e.g. poles along a road
- Grid mapping utility for collecting evenly distributed measurements (water depth, chemical concentration, etc.) required for contour map generation
- Optional software upgrade for collecting data for post-processed differential correction
- Language Support:
  - Chinese
  - Dutch
  - English
  - French
  - German
  - Lithuanian
  - Polish
  - Russian
  - Spanish

### MobileMapper Office Software

MobileMapper Office is a user-friendly office software package linking the MobileMapper receiver to your GIS. Key software functions include:

- Post-processed differential correction to sub-meter accuracy for data recorded using optional receiver software
- Feature library creation
- GIS data display and editing
- Uploading of GIS data and base maps to the MobileMapper receiver

- Definition of data collection grids
- Display in different coordinate systems and map datums
- Export of data to SHP, MIF, DXF and CSV formats
- Language Support:
  - Chinese
  - English
  - French
  - German
  - Russian
  - Spanish

### MobileMapper Office Hardware Requirements

- Windows® 98 / NT 4.0 or later / 2000 / XP
- Pentium®, 133 MHz or better
- 32 MB RAM
- 90 MB disk space required for installation

### Application Areas

- **Utilities:** maintaining power/telephone poles, distribution networks and oil/gas pipelines; writing damage assessment reports; documenting service calls
- **Forestry:** mapping facilities, access roads, lease boundaries, fire boundaries, infestations and habitats
- **Corporate and governmental asset management:** managing geographically dispersed assets such as park facilities, fire hydrants, streetlights and irrigation systems
- **Agriculture/ranching:** planning operations; preparing crop reports and chemical application permits; mapping facilities, boundaries and roads
- **Environment and resource management:** writing environmental impact reports; documenting water resources, landfill issues; mapping chemical leaks, wildlife habitats and storm damage
- **Public safety:** creating first-response plans, mapping fire boundaries, fire access roads, crime locations, disease incidence, storm damage

### Optional Accessories

- SD cards, 32 MB and 64 MB capacity
- Swivel mount for boat or vehicle dashboard
- Vehicle mounting bracket for windshields
- Bicycle mounting bracket
- Carrying case
- External antenna
- Power/data cable
- PC cable with cigarette lighter adapter
- Serial-to-USB cable

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