

# MobileMapper™ CX



Map anything. Anywhere. In any way.



# A Universal GIS Solution



## MobileMapper™CX

MobileMapper™CX is a highly flexible, accurate, affordable and rugged handheld GPS receiver for universal GIS use. Compatible with Windows CE based GIS applications, the MobileMapper CX provides real-time sub-meter and even sub-foot accuracy in post-processing. Support of Bluetooth wireless technologies, DGPS networking capabilities, huge storage capability, field-replaceable all-day battery, built-in alphanumeric keypad, and a design that can withstand extreme outdoor conditions ensures that the MobileMapper CX delivers uncompromised performance and productivity.

Together with Magellan Professional's Mobile Mapping application, MobileMapper CX offers a turn key solution for all your GIS needs. The software is intuitive, making proficient use quick and easy with minimum training, and includes the GPS features you really need without the burden of overly complicated, rarely used functions.

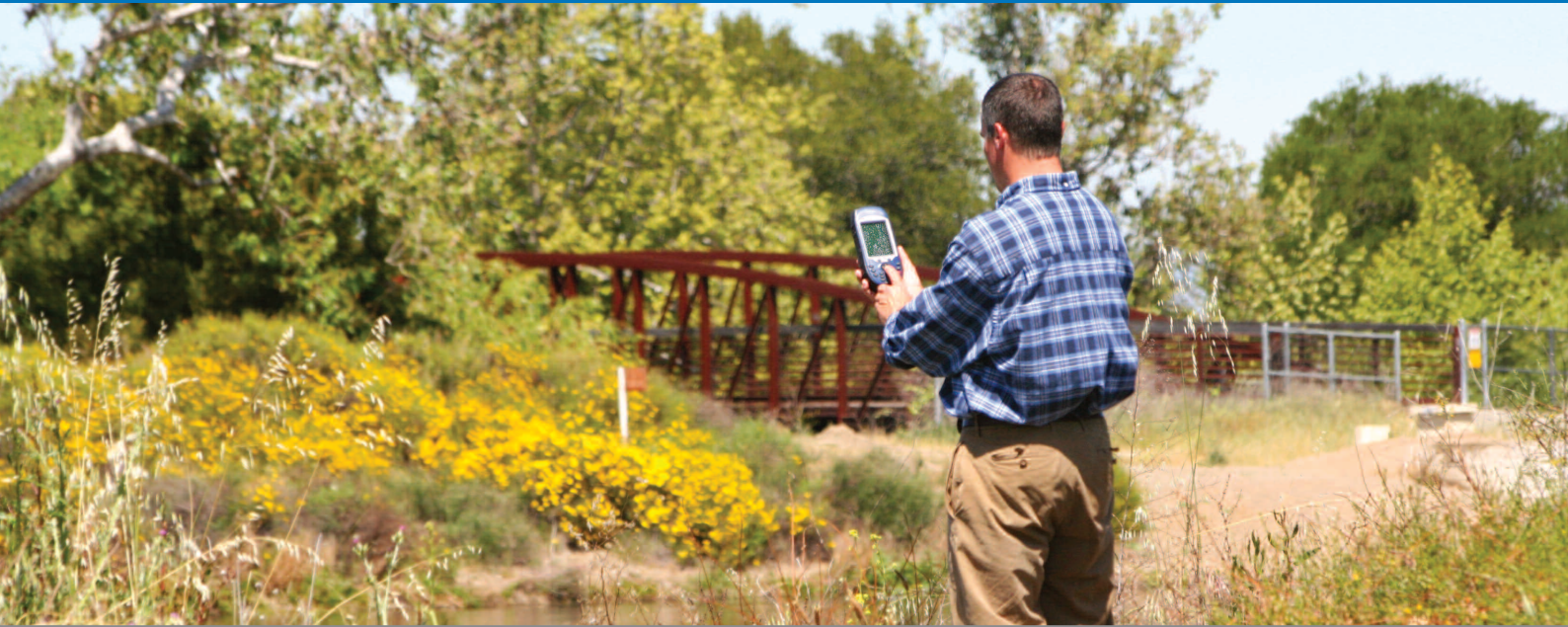
Driven by the powerful office support software, MobileMapper Office, MobileMapper CX provides clear and simple data display, editing and export capabilities. MobileMapper CX makes creating or updating maps for analysis and storage in any Geographic Information System quick and easy.

### High performance features

- Real-time sub-meter and sub-foot post-processed GPS accuracy
- Open platform based on Windows CE .NET 5.0
- Multiple DGPS modes: SBAS, Beacon, NTRIP, Direct IP, and RTCM
- Support of Bluetooth technologies
- Removable SD card memory (up to 4 GB)
- Rugged and waterproof design
- Field replaceable all-day battery
- Built-in alphanumeric keypad



# MobileMapper CX Advantage



## Flexibility

The open platform design of the MobileMapper CX allows you to choose the right GIS application you need: Magellan Professional's easy-to-use Mobile Mapping application, or a large choice of GIS and navigation software offered by our Authorized Business Partners.

With the option of using Bluetooth wireless technology, transferring or backing up your data is no longer a hassle. When there's no time to transfer your files, the MobileMapper CX gives you the freedom to store them on SD cards up to 4GB.

## Accuracy

The MobileMapper CX offers the most versatile GIS/ GPS system, using multiple operating modes and configurations to ensure accurate positioning whenever and wherever you use it.

MobileMapper CX delivers sub-meter accuracy in real-time using many different DGPS modes such as SBAS, Beacon, NTRIP and Direct IP. With the help of a Magellan Professional external precision antenna and our MobileMapper Office tool, the MobileMapper CX can achieve sub-foot accuracy in post-processing.

## Affordability

Along with its ease of use and high-performance features, the MobileMapper CX is a cost-efficient GIS solution offering the best price-to-performance ratio in the market.

With competing products almost twice the price of the MobileMapper CX, you can provide personnel with more valuable equipment, getting the job done faster, getting the job done better.

## Ruggedness

The harshest terrain and extreme conditions are no match for the durability and performance of the MobileMapper CX.

Able to withstand weather conditions that would leave consumer-grade products, such as PDA's, damaged, and rugged enough to come out of a fall without a scratch the MobileMapper CX is ready for any environment.

MobileMapper CX is perfectly suited for all GIS field uses: public safety, federal and local agencies, utilities, environmental monitoring, natural resources and any other industry where field asset mapping and management is critical.

# MobileMapper CX Technical Specifications

## GPS Characteristics

- 14 parallel channels
- Integrated SBAS (WAAS, EGNOS, MSAS)
- L1 C/A code and carrier
- Update rate: 1 Hz
- Protocol: NMEA 0183 v 3.0
- RTCM SC-104 version 2.3 (9.2 & 1.2)

## Accuracy Specifications

### Real-Time Performance (RMS)

- Sub-meter accuracy with SBAS<sup>(1)</sup>, Beacon, NTRIP, Direct IP or other RTCM corrections

### Post-processing Performance (RMS)

- Sub-foot accuracy (30 cm)<sup>(2)</sup>

## Operating System

- Microsoft Windows CE .NET 5.0
- ARM920T based processor
- GPS Utilities - provides initialization and setup, mission planning and configuration of optional beacon differential receiver
- Bluetooth Manager - full-featured Bluetooth connectivity configuration utility
- Microsoft WordPad, Internet Explorer®, Windows Explorer, Terminal, ActiveSync®, Windows Media Player and Inbox
- Microsoft File Viewers: Excel, Word and Image Viewers
- Inbox - e-mail client

## Physical Characteristics

### Size and Weight

- Size: 19.5 cm x 9 cm x 4.6 cm (7.7 x 3.5 in x 1.8 in)
- Weight: 0.48 kg (1.05 lb) with battery

## User Interface

- Full color, daylight readable, advanced TFT liquid crystal display (LCD) with backlight
- 320 x 240 pixels resolution with 262,144 colors
- Resistive touch panel
- Alphanumeric keyboard with backlight: 18 buttons
- Audio: built-in loud speaker

## Memory

- 128 MB SDRAM, 128 MB NAND Flash memory
- Removable SD card memory: up to 4 GB (non-HC SD)

## Interface

- Integrated Bluetooth wireless technology
  - Specification 1.2 compliant
  - Point-to-point and point-to-multipoint
  - Profiles: serial port, OBEX, dial-up networking
- Lemo coaxial external antenna connector
- USB: host and slave
- RS232

## 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: IP 54 Standard
- Shock: 1.5 m (4.9 ft) drop to concrete

## Power Characteristics

- Battery type: 3.7 V lithium-ion, 3900 mAh
- Battery life: 8 hour run-time with GPS
- Removable, rechargeable battery
- External power port for extended operation time

## Language Support

- Microsoft Windows CE operating system language support such as English, French, German, Spanish, Dutch, simplified Chinese and Japanese

## Accessories

### Standard Accessories

- Clip-on I/O module with external power, USB and serial ports
- Universal A/C adapter
- Removable, rechargeable lithium-ion battery
- 128 MB Secure Digital memory card
- USB data cable
- Carrying case
- Hand strap
- Stylus pens (2)
- MobileMapper CX companion CD includes supported international language fonts and Getting Started Guide

### Optional Accessories

- MobileMapper Beacon - Bluetooth enabled beacon differential correction receiver
- External antenna
- Power cable with cigarette lighter adapter
- 3.7 V lithium-ion rechargeable battery
- External battery charger
- Stylus pens
- Carrying case
- Car bracket
- Clip-on I/O module with external power, USB and serial ports

## Emissions Certification

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

## Mobile Mapping Software Options

### Mobile Mapping Software

- Point, line and area logging
- GIS feature libraries
- Offset function
- Raster and Vector map support
- Nesting function
- Repeat feature function
- Grid mapping utility
- Raw data collecting

### Language support

- English, French, German, Spanish, Italian, Portuguese, Swedish, Dutch, Finish

### MobileMapper Office

- Feature Library Editor
- Background Map Creation
- Job Creation and Editing
- Differential Correction
- GIS Data Display and Editing
- GIS Import/Export: ESRI .SHP, MapInfo .MIF, and AutoDesk .DXF import/export and .CSV export

### Language support

- English, French, German, Spanish, Portuguese, Russian, Chinese, Japanese

### System Requirements

- Windows 2000 / XP / Vista
- Pentium 133 or higher
- 64 MB RAM mini, 128 MB RAM recommended
- 200 MB disk space required for installation

### Optional Modules

- GPSDifferential Module for post-processing<sup>(3)</sup>
- Software Development Kit (SDK) and GPS Application Programming Interface (API)<sup>(4)</sup>

<sup>(1)</sup> Accuracy assumes open sky environment, #SVs > 5 and PDOP < 4

<sup>(2)</sup> Assuming GPSDifferential Module and GPS precision antenna are used for raw data capturing

<sup>(3)</sup> For SW Integrators only

<sup>(4)</sup> When a Business Partner Agreement has been approved

### PHM Survey Equipment

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