

# MobileMapper 20

## **MobileMapper 20**

Geographical Information Systems and Location Based Services are strongly penetrating a wide range of applications and organizations. The growing need for geo-localization is naturally boosting the demand for efficient and affordable data collection solutions.

Ashtech® is leading the GNSS democratization to enable a wider access to professional mapping. Today with MobileMapper 20, Ashtech makes it possible to massively deploy a professional accurate GIS receiver to any field work force.

Compact and lightweight, MobileMapper 20 is a complete, easy to use mapping solution for real-time collection of meter accurate data.

With MobileMapper 20, organizations will improve the quality of their georeferenced information and their productivity with direct positive impact on operational costs.

### **Boost Your Mapping Productivity**

- Log your assets in real-time with meter accuracy
- Connect field and office work force for maximum proactively
- Reach sub-half meter accuracy with post-processing

### **Unpack and Start Logging**

- Ready to use complete mapping solution for field and office
- User friendly Windows® Mobile 6.5
- Easy-to-use software for short learning curve and quick logging operations

### **Made For Mobile GIS Work Force**

- Compact & lightweight design for optimal mobility, use and comfort
- Integrated communications for easy data transfer
- Only receiver offering several days of battery life
- Ruggedized for outdoor use

### **MobileMapper Field and Office Software : A complete solution**

The Ashtech MobileMapper software suite includes all GIS features that professionals really need without the burden of complicated and rarely used functions, both on field and office sides.

Running on MobileMapper receivers, MobileMapper Field is the perfect solution for GIS data collection, asset management, area measurements, maps creation and updates. The software is very intuitive and easy-to-use, requiring minimum training. It also provides direct interface to external sensors for a complete field solution. The Ashtech MobileMapper Office tool can be used to differentially post-process raw GPS data collected with the MobileMapper Field software. Through an Internet connection, MobileMapper Office can automatically find and download the base data files that will match the collected raw data; it will compute corrected positions automatically.





### **Tune MobileMapper 20 to Your Applications**

With Windows Mobile 6.5 you may upload necessary utilities or software on your MobileMapper 20, to suit your next job. You can collect GIS/GPS points and maps via the GIS application of your choice, either a third-party software such as ESRI® ArcPad® or the proprietary Ashtech application.

### **MobileMapper 20 Technical Specifications\***

#### **GNSS Characteristics**

Internal antenna: 20 channels                      GPS L1 C/A

SBAS: WAAS/EGNOS/MSAS/GAGAN

External antenna connector

NMEA output

#### **Accuracy Specifications (Horizontal RMS)<sup>1</sup>**

Real-time SBAS: < 2 m typical

Post-processed: < 50 cm typical

#### **Processor**

ARM9™

Clock frequency: 600 MHz

#### **Operating System**

Microsoft® Windows Embedded Handheld 6.5

Languages available: English, French, German, Italian, Japanese, Korean, Portuguese, Spanish, Simplified Chinese

Software package includes: Internet Explorer®

Office Mobile

ActiveSync®

Transcriber (handwriting recognition)

#### **Communications**

##### **Cellular**

Built in GSM/GPRS/HSPA (3.5G)

## Modem Versions

P/N 802168-00: 3.5 G: 900/2100 MHz; 2G: 850/900 /1800 MHz

P/N 802168-10: 3.5G: 850/900 MHz; 2G: 850/900/1800/1900 MHz

## Bluetooth

Bluetooth 2.1 with EDR

## WiFi

Integrated

## Interface

USB

## Physical Characteristics

- **Size:** 169x88x25 mm
- **Weight:** 380g with battery (310g without)

## User Interface

**Keyboard:** 4-way navigation, menu, contextual keys, Illuminated keyboard with touch screen  
Virtual keyboard

## Display

VGA Color TFT High resolution display sunlight readable with touch screen, LED backlight.

Size: 3.5"

Colours: 262k

## Memory

256 MB SDRAM

Storage: 512 MB NAND Flash (non volatile)

MicroSDHC™ memory card (up to 32GB, SanDisk®, Kingston® recommended)

## Environmental Characteristics

Operating temperature: -10° to +60°C (14 to 140°F)

Storage temperature: -30° to +70°C without battery (-13 to 158°F)

Humidity: 95% non condensing

Waterproof: IP54

Free drop: 1.2 m on concrete

## Power Characteristics

Battery life: > 20 hrs @ 20 °C with GPS on<sup>2</sup>

Charging time: 4 hours

Removable battery

## Multimedia & Sensors

- Camera 5M Pixels
- E-Compass
- G-Sensor
- Speaker
- Microphone

## Software Options

Spectra Precision MobileMapper Field and Office software

Post-processing

ESRI ArcPad software bundle (USA only)

## Standard Accessories

- Stylus
- Hand-strap
- A/C charger
- USB cable

## Optional Accessories:

- External magnetic GPS antenna
- Pole bracket

<sup>1</sup> Handheld accuracy performance achieved in good conditions (open sky) with PDOP <3 and more than seven satellites in view.

<sup>2</sup> GPS on, no Bluetooth or WiFi are used, backlight used 20% of the time at minimal settings.

\* Including available options.