



## Rugged Handheld

### key features

- **IP65 Certified**  
Works in harsh conditions
- **Sunlight readable display**  
3.7" TFT VGA industrial high contrast display, readable under full sunlight from any viewing angle
- **5 megapixel built-in camera**  
For high quality images and videos
- **Full communication set**  
USB, RS232 serial port, Wireless LAN, Bluetooth 2.1 and TF card socket
- **Built-in GPS receiver**  
Real-time positioning accuracy of 2.5m, provides a modestly priced integrative solution



The XF3 is Hemisphere GNSS' next-generation built-in professional grade GPS receiver. The rugged handheld includes a high-sensitivity GPS antenna and performs well in covered areas such as forests and urban areas, ensuring that continuous work in challenging environments can be continued.

The integrated 5 megapixel digital camera allows you to capture accurate pictures of the situation in the field for GIS data collection. The XF3 is compatible with high-capacity MicroSD cards, ensuring there is enough storage for large data and raster background maps. Integrated Bluetooth and wireless LAN capabilities enable the XF3 to connect to networks and other devices freely.

The XF3 is the perfect fit for field work. The rugged handheld is designed with a 3.7" industrial high contrast sunlight-readable touchscreen display and is dust and waterproof up to IP65 standards. The two batteries last up to 12 hours and allow GPS data collection for a full working day without the need to recharge.





### Hardware

Operation System: Windows Mobile 6.5  
Processor: Marvell PXA-310 806 MHz Xscale PCU  
Ram: 256 MB  
Internal Storage: 4 GB+256 MB  
External Storage: TF extensible to 32 GB  
Sensor: Electronic compass (optional)

### Display

Model: TFT colors, LED backlight  
Resolution: 480 x 640 VGA  
Size: 3.7 inch

### Interface and Input

Multimedia: Integrated speaker, microphone and telephone receiver, support record and replay  
Soft Key: Soft keyboard for numbers and symbols input  
SIM Card: SIM card socket  
External Power Supply: External power connector  
TF Card: MicroSD card socket  
Data Transfer Interface: USB connector, serial port, RS232 COM port

### Battery (Rechargeable Lithium)

Battery Capacity: 7.4V, 1500 mAh, 11.1 Wh, Li-Ion  
Working Hours: Endurance of 12 hours (two batteries)

### Environment

Relative Humidity: 95% non-condensing  
Operating Temperature: -20°C to +60°C  
Storage Temperature: -30°C to +70°C  
Waterproof / Dustproof: IP65

### Size and Weight

Size: 177 x 91 x 33 mm (L\*W\*D)  
Weight: 460 g (battery included)

### Data Communication

USB: Mini waterproof USB Connector  
Wireless: 802.11 b/g Wireless LAN  
Bluetooth: Bluetooth version 2.1 + EDR  
Communication Module: Internal 3G communication module  
Multimedia: Voice call and multimedia message

### Built-In GPS

Chipset: u-blox  
Receiver: Single frequency GPS receiver  
Channel: 50 Channels  
GPS: L1 frequency, C/A code  
SBAS: WAAS / EGNOS / MSAS / GAGAN  
Antenna: Built-in

### Protocol

RTCM: Support RTCM 2.1, 2.3  
CORS: Fully compatible with CORS and regional reference station VRS/NRS  
Data I/O, NMEA (GGA, GLL, RMC, GSA, GSV, VTG)  
NMEA:  
Update Rate: 1 Hz  
Cold Start: 26 s  
Stand Alone Accuracy: 1 - 3 m  
NTRIP Accuracy: 1.5 m

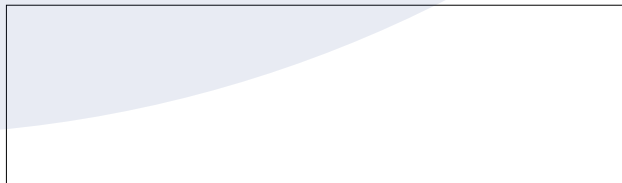
### Buttons and Controls

Power key, Win key, ESC key, Number keys, Alphabetic keys, Symbol keys, Left & Right soft key, Screen brightness control keys, Send & End keys, Shift key (Shift F1 and F2, direction, tab and \*#), Camera key

### Additional Features:

Camera:  
Static Mode: Auto focus 5 MP  
Image Format: JPG (2048 x 1536)  
Video Mode: Up to VGA resolution

### Authorized Distributor:



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