

## F50 Series Handheld GNSS/GIS Receiver



- Equipped with static and RTK GNSS engines
- GPS+GLONASS satellites tracking capability, supports Galileo and Compass system
- High-performance sub-meter GIS handhelds, RTK collection accuracy with internal antenna: 1cm+1ppm
- Supports external antenna for high precision RTK or static measurement
- Microsoft Windows Mobile 6.1/6.5 OS
- Rugged design, MIL-STD-810G and IP67 compliance, -30°C to +65°C operating temperature
- Supports professional GIS software, wide application fields such as agriculture and city planning etc.

## ■ Technical data

F50 2012.04

GNSS-integrated high-performance GNSS(GPS, Glonass and SBAS) receiver					
H-accuracy		F50-B1	F50-E1	F50-P1	F50-A1
	Single Point L1	2.5 m	1.5m	1.5 m	1.5 m
	Single Point L1/L2	/	/	1.2 m	1.2 m
	SBAS	<1m	0.7m	0.6 m	0.6 m
	DGPS	0.6 m	0.5m	0.4 m	0.4 m
	RTK	/	/	1 cm+1 ppm	1 cm+1 ppm
GNSS		12-Channel	14-Channel	36-Channel	120-Channel
		GPS/SBAS	GPS/GLONASS/SBAS	GPS/GLONASS/SBAS	GPS/GLONASS/SBAS/ Galileo/Compass
Internal memory		8G	8G	8G	8G
Upgrade Rate		Up to 10Hz			Up to 50Hz
Static accuracy		3mm+1ppm/external antenna			
External Antenna		Connector for an external antenna			
Real-time and post-processed		Supports of real-time correction service and post-processing			
Time to first fix(typ.)		Cold Start 60s, hot start 35s			
Output Data protocols		NMEA-0183(GGA, VTG, GLL, GSA,ZDA, GSV, RMC, GST, GRS); Raw measured data			
Real-Time Protocols		RTCM SC-104(SBAS/Beacon), Proprietary format (L-Dif/RTK)		RTCM 2.x, RTCM3.0, CMR, CMR+	
Handhelds					
Operating system		Windows Mobile 6.1/6.5 OS			
Display		Transflective sunlight readable 3.5inch TFT LCD VGA 640X480pixel			
Camera		3M pixels auto-focus camera			
I/O		Bluetooth, RS232, USB, WiFi			
Interface		Touch screen, Ergonomic cable-free handheld with fully illuminated keyboard, virtual keyboard			
Processor		Marvell PXA310 806MHz			
Memory		8G internal memory, supports 4-8G TF card			
GSM Module		Integrated GSM 3.5G module with fully internal antenna, compatible with CORS			
Power					
Removable battery/Working time		5600 mAh Li-ion rechargeable/≥4 hours			
Battery charging time		≅3 hours			
Power		12V DC			
Software					
Application software		FOIF Survey,supports Trimble TerraSync, Carlson Surv, Mircosurvey FieldGenius			
Included software		Internet Explorer Mobile, File Explorer, Word Mobile, Mircosoft Windows Media Player, Camera Software, Online Help			
Others					
Dimensions(DxWxH)		282x97x45mm			
Weight		0.75kg			
Operating/Storage temperature range		-30°C to +65°C/-40°C to +75°C			
Water and dust protection		IP67			
Drop		1.2m			

Illustrations, descriptions and technical specifications are not binding and may change

**FOIF** Since 1958  
It's professional

**Suzhou FOIF Co.,Ltd.**

TEL:+86 512 65224904  
FAX:+86 512 65230619  
Http://www.foif.com.cn  
E-mail:internationalsales@foif.com.cn  
ADD: 18 Tong Yuan Road, Suzhou 215006, P.R. China



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