

Archer-OBS

Handheld Field PC for the OBS-3A System



Campbell Scientific's Archer-OBS is a small handheld device that you can carry to the field and display OBS-3A measurements, run surveys, and setup the OBS-3A for extended deployment. The Archer-OBS consists of a Juniper Systems' Archer Field PC and Campbell Scientific's OBS-Mobile software. A kit is available that provides GPS capability (see Ordering Information).

OBS-Mobile Software

OBS-Mobile is versatile, easy-to-use software that allows the OBS-3A Turbidity & Temperature Monitoring System to communicate with the Archer Field PC. It supports most functions of the standard OBS software. OBS-Mobile software lets you:

- Configure and run a manual survey or profile
- Configure and initiate datalogging for a long-term deployment
- Collect data from the OBS-3A system
- View real-time measurements. Measurements are updated every two seconds.
- Graph OBS-3A data
- Transfer data collected from the OBS-3A to an office PC

Rugged Design

The Archer Field PC is ultra-rugged, meaning you can be sure your data is safe—even in extreme environments. Losing data is costly. Think about the cost of labor for a day. If you lose your data because your laptop or PDA stops working, you lose the cost of your labor as well as the cost of the computing device.

With an IP67 sealed rating, the Archer Field PC is completely sealed against dust and water. And it won't break down or fail in extreme temperatures – it is made to operate in temperatures as cold as -30°C or as hot as 50°C. The Archer Field PC has been designed to withstand multiple drops onto concrete from 5 feet. Couple these features with a battery life of up to 20 hours and a screen designed for readability in direct sunlight, and you've got a handheld data collection device that won't let you down when the going gets tough.



The Archer-OBS (center) can be easily carried to a lake, river, pond—anywhere an OBS-3A (right) is making measurements.

Archer-OBS Components

- Archer Field PC that features:
 - Full-functioning Windows PDA
 - 128 Mbytes of RAM and 256 Mbytes or 512 Mbytes of internal data storage
 - Microsoft Windows Mobile 6.1 operating system
 - Large, tactile, backlit keys
 - Outdoor readable color display with portrait or landscape view
 - Easy-to-grip overmolding that form fits your hands
 - Li-Ion battery pack that operates for more than 20 hours on one charge
 - Fast Intel XScale PXA 270, 520 MHz processor
 - User-accessible CompactFlash (CF) and Secure Digital (SD) card slots
 - Hand Strap
- International Wall Charger Kit (includes wall charger and USA, Euro, UK, and Australian plug adapters)
- USB Cable (mini to full)
- Full-sized Captured Stylus
- Microsoft® Getting Started CD
- Documentation CD with User Manual
- Premium Screen Protectors
- Connector Protector
- Campbell Scientific Software CD with OBS-Mobile
- Software CD with Excel Mobile, Word Mobile, Power Point Mobile

Ordering Information

Handheld Field PCs for OBS-3A System

Archer-OBS Handheld Field PC with 256 Mbytes of internal data storage. Includes Juniper System's Archer and Campbell Scientific's OBS-Mobile software.

Archer-OBS-EM Handheld Field PC with 512 Mbytes of internal data storage. Includes Juniper System's Archer and Campbell Scientific's OBS-Mobile software.

Global Positioning Satellite (GPS) Kit

253843 Kit that supports GPS capability for the Archer-OBS and Archer-OBS-EM. Kit consists of a 25839 Archer Universal Extended Cap, GLOBALSAT GPS Receiver, CompactFlash Card, and Landmark PC Software for Archer.

OBS-Mobile software features an intuitive, touch-screen menu that makes the Archer-OBS easier to use in the field.



Specifications

Processor:	520 Mhz PXA270
Archer Field PC Operating System (OS):	Microsoft® Windows Mobile® 6.1
Memory:	128 Mbytes RAM; 256 Mbytes or 512 Mbytes of data storage
Display Description:	High Visibility 1/4 VGA TFT Color
Keyboard	
Features:	LED backlit keys
Buttons Available:	Start, four-way directional, enter applications manager, power, and context menu (key functions can be user-defined)
Ports	
Serial:	RS-232C 9-pin sub D connector with 5 Vdc power on DTR pin
Power Jack:	12 Vdc @ 800 mA power in, 10 to 18 V unregulated
Memory Card Slots	
CompactFlash (CF):	One type-1 or type-2 CF card fits into the CF card slot. Use only industrial-grade CF cards with a storage capacity of ≤2 Gbytes.
Secure Digital (SD):	One SD card or Secure Digital Input Output (SDIO) card fits into the SD card slot.
Certifications & Standards:	FCC Class B; CE Mark; EN60950; RoHS Compliant; FM Approved Class I, Div 2

Battery	
Type:	Intelligent 3900 mAh Li-Ion
Expected Life:	Operates for more than 20 hours on one charge
Time to Recharge:	Charges in 4 to 6 hours

<i>Environmental</i>	
IP Standard:	IP67 waterproof and dustproof
Temperature Range Operating:	-30° to 55°C (minimum temperature for Bluetooth communication is -20°C)
Storage:	-30° to 60°C
Shockproof:	Survives multiple drops from 5 ft (1.5 m) onto concrete
Testing Standards:	MIL-STD810F for water, humidity, sand and dust, vibration, altitude, shock, temperature

<i>Physical</i>	
Construction:	Magnesium case with scratch resistant powder coat, and easy-to-grip, impact-absorbing overmold
Dimensions	
Length:	6.5 inch (16.5 cm)
Width:	3.5 inch (8.9 cm)
Depth:	1.7 inch (4.3 cm)
Weight:	17 oz (482g)

