CAMPBELL SCIENTIFIC®
WHEN MEASUREMENTS MATTER

ARCHER-OBS
Field PC for OBS-3A Turbidity and Temperature Monitoring Systems

Waterproof and Shock Resistant
Observe and collect data and manage OBS-3A in field

Overview

Campbell Scientific's Archer-OBS is a small handheld device with 256 MB of internal storage. You can carry the Archer-OBS to the field and display OBS-3A measurements, run surveys, and set up the OBS-3A Turbidity and Temperature Monitoring System for extended deployment. The Archer-OBS includes a Juniper Systems' Archer Field PC and Campbell Scientific's OBS-Mobile software.

Benefits and Features

- › Ultra-rugged, ensuring that the data is safe—even in extreme environments
- › Used on site to set up the OBS-3A Turbidity and Temperature Monitoring System and to collect, display, and graph its data
- › Operates in temperatures as cold as -30°C or as hot as 50°C
- › Transfers OBS* field data to office PC
- › Long battery life—up to 20 hours
- › Completely sealed against dust and water
- › Easy-to-grip overmolding
- › Large, tactile, backlit keys

Rugged Design

The ultrarugged Archer Field PC ensures that your data is safe—even in extreme environments. With an IP67 sealed rating, it 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 1.5 m (5 ft). 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 hand-held data collection device that won't let you down when the going gets tough.

OBS-MOBILE Software

OBS-Mobile is versatile, easy-to-use software that allows the OBS-3A Turbidity and 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 that are updated every two seconds
- › Graph OBS-3A data
- › Transfer data collected from the OBS-3A to an office PC

OBS® is a registered trademark of Campbell Scientific.

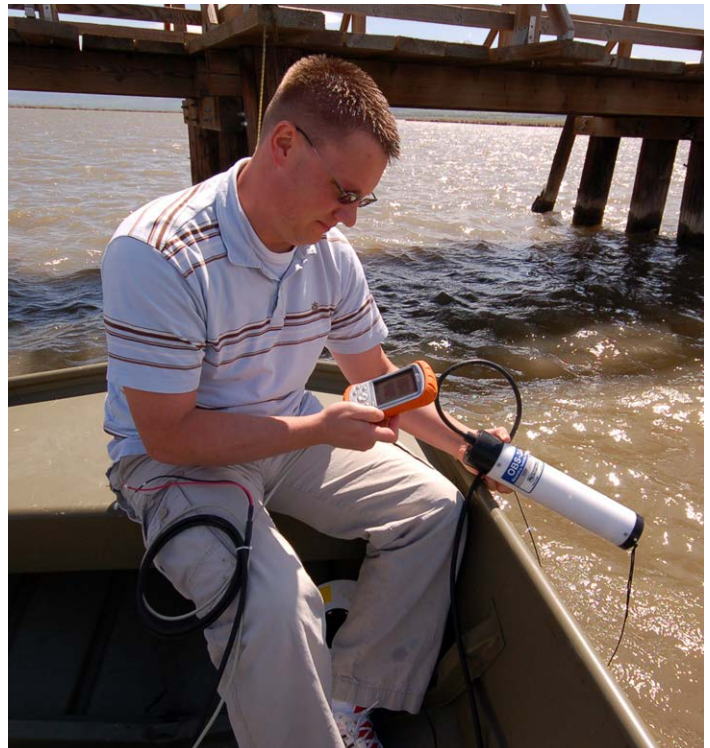## Components

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

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

Specifications

- Construction: Magnesium case with scratch resistant powder coat, and easy-to-grip, impact-absorbing overmold
- Processor: 520 Mhz, Intel XScale PXA270
- Archer Field PC OS: Microsoft Windows Mobile 6.1
- Display Description: High Visibility 1/4 VGA TFT Color
- Certifications and Standards: FCC Class B; CE Mark; EN60950; RoHS Compliant; FM Approved Class I, Div 2
- IP Standard: IP67 waterproof and dustproof
- Shockproof: Survives multiple drops from 1.5 m (5 ft) onto concrete
- Environmental Testing Standards: MIL-STD810F for water, humidity, sand and dust, vibration, altitude, shock, temperature
- Length: 16.5 cm (6.5 in)
- Width: 8.9 cm (3.5 in)
- Depth: 4.3 cm (1.7 in)
- Weight: 482 g (17 oz)

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 GB
- Secure Digital (SD): One SD card or Secure Digital Input Output (SDIO) card fits into the SD card slot

Memory

- RAM: 128 MB
- Internal Data Storage
  Archer-OBS: 256 MB
  Archer-OBS-EM: 512 MB

Temperature

- Operating: -30° to 55°C (minimum temperature for Bluetooth communication is -20°C)
- Storage: -30° to 60°C

Keyboard

- 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

Battery

- Type: Intelligent 3900 mAhr Li-Ion capacity of ≤2 GB
- Expected Life: Operates for more than 20 hours on one charge
- Time to Recharge: Charges in 4 to 6 hours