

C17-3 ARCHER 2™ RUGGED HANDHELD FIELD PC

Datasheet C17-3



Description

The Archer 2™ Rugged Handheld Field PC is a high performance, ultra-rugged device for retrieving and storing data via an easily accessible micro SD card, communicating using Microsoft® Windows Embedded Handheld 6.5.3.

The Field PC contains both USB host and RS-232 connections for communicating with dataloggers and other peripheral devices, as well as Wi-Fi, cell modem and Bluetooth for communicating wirelessly with Soil Instruments Digital Inclinometer Systems and other Bluetooth devices.

The Field PC is housed within an ultra-rugged, shock and waterproof case for use in extremely harsh environments, whilst remaining small and lightweight.

The easy grip unit has an extra-large, high visibility LCD display, speedy 1.0GHz processor, large memory capacity, combined with a long life battery, making the device ideal for any site application.

Features

- Microsoft® Windows Embedded Handheld 6.5.3 software
- High capacity memory; 512MB RAM and 8GB flash storage
- Multiple communication options; Bluetooth, Wi-Fi, modem, RS-232 serial and USB connectivity
- High visibility; backlit keys and scratch resistant LCD screen with full size stylus
- Waterproof and dustproof; IP68 rated
- Shockproof; withstands multiple drops from 1.5m onto concrete
- Intelligent Li-Ion battery; provides very long battery life
- Robust and Lightweight; easy grip moulding, secure hand strap, operates in extreme temperatures -30°C to +60°C
- 5MP camera and video capture

Benefits

- Non-volatile and secure operating system
- User accessible micro SD/SDHC stores large amounts of data
- Data can be remotely transferred back to the office via Wi-Fi or modem
- Easy viewing in all weather conditions including very bright sunlight
- Safe, reliable and easy to use in the field
- Fully sealed, shockproof protective caps
- Operates for over 20 hours in one charge, charges in 2 to 4 hours, displays battery status
- Ultra-rugged design, for even the harshest site environments
- Auto focus camera with date, time and GPS position



Comprehensive information about this product and our full range is available at www.soil.co.uk
If you would like to speak with someone directly please call +44 (0)1825 765044 or email sales@soil.co.uk

Operation

The Archer 2™ Rugged Handheld Field PC uses Microsoft® Windows Embedded Handheld 6.5.3. operating system, supporting all Microsoft® Office mobile applications.

The Field PC can be used to connect to any peripheral device with a USB host or RS-232 connection via the connection terminals, or any Bluetooth enabled device. Data can be remotely transferred back to the office using Wi-Fi or the inbuilt modem.

The unit is easy to navigate using either the large backlit keys which use standard Microsoft® Office icons or the full size stylus which is housed within the ultra-rugged case. The device also incorporates a precision **hold-to-zoom™** function and a capacitive touchscreen providing suitable and adaptable use in the field.

Applications

The Archer 2™ Rugged Handheld Field PC is supplied field ready with the following applications;

- Microsoft® Internet Explorer Mobile
- Microsoft® Office Mobile Applications; Word, Excel, PowerPoint and Outlook
- Adobe Reader® LE
- Multiple languages; English, French, Spanish, German and Portuguese.



High Visibility LCD Screen



Secure Hand Strap



Micro SD, Audio, Power, USB and RS-232 Serial Ports

Associated products

For details on:	Catalogue code:
Dataloggers	D1
Digital Vertical Inclinator	C17
Digital Horizontal Inclinator	C19-1
Digital Inclined Inclinator	C19-2
Digital Hydrostatic Profile Gauge	S17

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SMP Auto focus Camera and Video Capture



THE TECHNICAL RATING FOR THIS PRODUCT:

As the correct installation of any monitoring sensor or system is vital to maximise performance and accuracy, Soil Instruments makes the following recommendations, for the skill level of the installation contractor.

ADDITIONAL SUPPORT

We offer installation and monitoring services to support this system. For more information please email : sales@soil.co.uk or call : **+44 (0) 1825 765044**

BASIC 

ADVANCED 

INTERMEDIATE 

BASIC 

The installer is trained and experienced in the installation of this type of instrument or systems, and is ideally a specialist Instrumentation and Monitoring contractor.

The installer already has previous experience and/or training in the installation of this instrument or system.

As a minimum the installer has read and fully comprehends the manual, and if possible has observed these instruments or systems being installed by others.

Specifications

Processor

1.0GHz ARM Cortex A8 i.MX53 processor

Operating System

Microsoft® Windows Embedded Handheld 6.5.3

Memory and Data Storage

512MB RAM

8GB flash storage

User-accessible micro SD/SDHC slot

Display

Active viewing area

109 mm WVGA LCD TFT (800 x 480)

High visibility backlit LCD

Portrait or landscape orientation

Touchscreen

Projected capacitive touch interface 'optically bonded' to display for increased visibility

Chemically strengthened glass

Scratch resistant screen

Keyboard

Adjustable LED backlit keys

Numeric keypad (6 user reassignable)

OEM configurable/customisable

Software

Microsoft® Office Mobile

Word Mobile, Excel Mobile, PowerPoint Mobile, Outlook Mobile

Multiple languages

English, French, Spanish, German, Portuguese

Adobe Reader® LE

Ports

COM 1 RS-232C, 9 pin 'D' connector with 5V DC power output

USB host Full A

USB client Micro B

12, 24V DC input 10 - 36V unregulated

3.5 mm audio jack supports speaker/microphone or stereo output (pin detect)

I/O module OEM configurable/customisable

Battery

Intelligent Li-Ion battery 3.7V DC @ 10600mAh, 38.7Whr

Operates for up to 20 hours on one charge

Charges in 2 to 4 hours

Physical Properties

Size 184mm Length x 91mm Wide x 38mm Depth

Weight 590g

Operating temperature -30°C to +60°C

Material Durable hardened plastic

Ingress protection IP68 waterproof and dustproof

Wireless Connectivity Options

Bluetooth 2.1 +EDR, class 1.5, range greater than 30m

Wi-Fi 802.11b/g/n with extended range

3.75G modem Pentaband Worldwide

Frequencies HSPA+/UMTS: 800 / 850 / 900 / 1800 / 1900 / 2100MHz (supports micro SIM card only)

Camera

5MP resolution with autofocus and LED illuminator and video capture

GPS/GNSS

High-sensitivity GPS/GLONASS/SBAS receiver

User settings for enhanced performance under canopy

Accuracy SBAS 2 meters, autonomous 5 meters

NMEA and BINR output

32 channel tracking

Ordering Information

Archer 2™ Rugged Handheld Field PC

Includes loaded software and storage card

C17-3.18	Archer 2™ Rugged Handheld Field PC
C17-A2-Batt	Rechargeable LI-Ion battery pack
C17-A2-Stylus	Stylus



FM 611948

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