

Archer Longbow

Remote Positioning GPS Handheld

Product Overview

The Archer Longbow is a rugged PDA built for the field. It is waterproof and dustproof (IP67) featuring long battery life, sunlight readable display, and operation in extreme temperature. The Longbow combines an Archer Field PC®, GPS receiver, 3D compass, digital camera and laser rangefinder resulting in a rugged all-in-one GIS field tool.

Natural resource managers map, assess, inventory, and measure forests, fisheries, wildlife, rangeland, water, wetland and underground resources to ensure sustainability. They use Archer Longbow to compute solutions, improve productivity, maintain data integrity, and facilitate awareness in work flow operations. Archer Longbow has a wide range of uses in forestry, fisheries, water resources, marine, geophysical, environmental, and rangeland applications.

Archer Longbow models range from a total off-the-shelf solutions or customised solutions built to meet specific needs.



Key Benefits of Natural Resource Solutions:

- Select from a wide range of ultra-rugged handheld computers specifically designed to meet the needs of natural resource managers
- Integrated, rugged and handheld with sensors such as GPS, bar code, RFID, Cellular modem
- Customise product through integrated sensors, communication devices, or software
- Run standard off-the-shelf Windows Mobile application specific solutions



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Archer Longbow Specifications

Features		Forestry Applications
Wireless Communication Options	<ul style="list-style-type: none"> • Integrated Bluetooth wireless technology option. Class 1 receiver allows connectivity with Bluetooth technology devices within (20m). Bluetooth technology profiles supported: serial port (SPP), dial-up networking (DUN), object push (OPP), human interface device (HID), and printer • Supports CF or SD Bluetooth technology cards. Wi-Fi supported (requires SD or CF Wi-Fi adapter card for wireless networking) 	<ul style="list-style-type: none"> • Forest inventory • GIS and mapping • Log scaling • Lumber grading • Insect and disease assessment • Wildland fire management • Silvicultural assessments • Water quality
CF & SD Card Slots	<ul style="list-style-type: none"> • Compact Flash: Type I or Type II for data storage and other peripherals. • Secure Digital (SD, SDIO, SDHC) can be used with memory cards and other peripherals. User accessible, fully sealed 	Water Management Applications
High Contrast Colour Display	<ul style="list-style-type: none"> • Active viewing area: 89mm diagonal • High visibility TFT active matrix transfective LCD. • Transfective technology gives brilliant contrast, even in direct sunlight. • QVGA, 240 x 320 pixels, selectable portrait or landscape view 	<ul style="list-style-type: none"> • Profiling • Surveying • Monitoring of surface or groundwater • Water quality assessment • Flow and level • Turbidity • Aquifer storage and recovery • Discharge monitoring • Estuary and wetland studies • Remediation projects • Saltwater intrusion monitoring • Storm surge analysis
Data		Environmental Management Applications
Data Storage	512 MB Flash Disk	<ul style="list-style-type: none"> • Environmental impact statements • Mapping invasive species • Wetland delineation • Wildlife surveys • Raptor studies • Riparian zone mapping
Memory Capacity	128 MB low-power RAM, efficient use of RAM by providing more memory for larger applications and databases	Fisheries Management Applications
Operating Conditions		<ul style="list-style-type: none"> • Collection of biological composition data • Growth analysis • River system productivity • In-season run strength estimation • Catch allocations • Stream survey • Creel census • Electrofishing
Operating System	<ul style="list-style-type: none"> • Microsoft Windows Mobile 6.1 Classic operating system • Non-volatile, secure, stored in Flash, protected from accidental erasure • Available with in 16 languages including Chinese-simplified, Chinese-traditional, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Portuguese, Russian, Spanish, Swedish 	
Processor	Intel XScale PXA270, 520 MHz	



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Archer Longbow Specifications

Power

Power supply	Intelligent, rechargeable, lightweight 3900 mAh Sealed Li-Ion
Battery Life	6-8 hours typical use

Dimensions

Weight	(1029 g) with battery
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3D-Compass

Heading Accuracy	2 degrees
Tilt	0 to 90 degrees

Camera

Resolution	3.2 MP (LB100) / 5MP
Zoom	Digital, 30X, zoomed image
File Format	jpeg

GPS

GPS (S/A off)	2-5 meters
WAAS	2 meters
Depends on multipath environment, number of satellites in view, satellite geometry, and ionospheric activity.	

Laser Rangefinder

Accuracy	0-300m +/- 0.3m, 300-1000m +/- 1m
Eye Safety	Class 1



Communications Module (patent pending)

- Field Data Collection for Natural Resources
- USB host can control other devices
- USB device (Mini B) synchronises information to the desktop
- 12 VDC jack for power input and battery charging (wall mount or vehicle charger), 10 V—18 V
- Modular, field replaceable, can be customised

Keyboard

- Four-way directional button
- Standard key functions
- Keys can be user-defined
- LED backlit keys

Package Contents

- Daylight readable touch screen
- SD memory card door
- Rangefinder/compass/camera module
- GPS antenna

Enunciators

- External power/charge LED indicates battery charging status
- Notification LED to alert the user of events on the device
- Other enunciators on system tray



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