LAND-PAK
- Rugged, reliable land survey solution
- Easy-to-use NavCom FieldGenius or NavCom SurvCE controller software
- CAD processing software
- Built-in UHF radio link
- Ultra RTK (GPS+GLONASS)
- GSM 3G Network RTK support
- Lifetime StarFire™ license
  - 5cm standalone operation
  - RTK Extend™ through base station outages
- Removable SD card for static survey
- Three year warranty

www.navcomtech.com
LAND-PAK

The LAND-PAK system provides an unprecedented level of performance and flexibility by including Ultra RTK, StarFire and RTK Extend capabilities as standard. With Ultra RTK users receive centimeter level performance up to 40 km from the base station while StarFire provides five centimeter accuracy anywhere, anytime without the need for a base station. NavCom’s patented RTK-Extend feature allows users to work in challenging environments and maintain RTK-level accuracy even during base station radio outages.

Available with the LAND-PAK system are choices in both the ruggedized controller, and easy to use application/office software. The core of the system is the SF-3040 GNSS receiver that seamlessly integrates with all needed receiver accessories to complete the job. The rugged, waterproof and shock proof design coupled with hot swappable batteries ensures continuous operation in the harshest of environments.

UHF and GSM communication links with support for multiple RTK formats allows the LAND-PAK rover to work with a variety of base stations. The Sapphire™ GNSS technology with multi-constellation (GPS, GLONASS) support and superior signal sensitivity allows operation even in shaded environments.

Quick setup, ease of use and superb performance allows LAND-PAK to meet the needs of even the most demanding surveyor.

FEATURES

• Integrated UHF and GSM support
• Bluetooth® cable free, all-on-the pole design
• Multi-constellation support (GPS & GLONASS)
• Ultra RTK (up to 40km baseline)
• Single-base network with support for multiple message formats
• Built-in StarFire receiver with lifetime license
• StarFire five centimeter standalone accuracy
• StarFire Over IP delivery Included
• RTK Extend: Coast through base station outages
• Dual hot swappable batteries for continuous operation
• SF-3040 GNSS receiver operates as a base or rover
• Water and shock resistant
• Three year warranty
LAND-PAK System

SF-3040 Receivers (Qty 2) Included
- L1, L2, G1, G2 or (L5) Navigation 5Hz
- StarFire Enabled
- Lifetime StarFire License (Including Over IP delivery)
- RTK including Single-base network
- RTK Extend
- USB Configuration Flash Drive
- Li-Ion Batteries (Qty 4)
- SD Memory Cards (Qty 2)
- USB Device Cable, 6ft
- COM1 Serial Cable, 6ft
- Battery Charger, Dual Bay (Qty 2)

Receiver Accessories Available
- 1 Watt UHF 403-473Mhz (Qty 2)
- UHF Module Antenna

Hardware Accessories Available
- Aluminum Rover Pole
- Clamp & Pole Clamp for Controller
- Wood & Fiberglass Tripod
- Fiberglass Extension Rod
- Tribrach w/ optical plummet
- Fixed Tribrach Adapter
- GPS Pocket Rod/Tape Measure
- Hard Shell Transit Case
- Canvas Tripod Bag

LAND-PAK Network Rover

SF-3040 Receivers (Qty 1) Included
- L1, L2, G1, G2 or (L5) Navigation 5Hz
- StarFire Enabled
- Lifetime StarFire License (Including Over IP delivery)
- RTK including Single-base network
- RTK Extend
- USB Configuration Flash Drive
- Li-Ion Batteries (Qty 2)
- SD Memory Cards (Qty 1)
- USB Device Cable, 6ft
- COM1 Serial Cable, 6ft
- Battery Charger, Dual Bay (Qty 1)

Hardware Accessories Available
- Aluminum Rover Pole
- Clamp & Pole Clamp for Controller
- GPS Pocket Rod/Tape Measure
- Hard Shell Transit Case

LAND-PAK Controller and Software Available
- NavCom Nautiz X8 Controller Kit
- NavCom Archer II Controller Kit

Software Available
- NavCom FieldGenius or NavCom SurvCE
- NavCom SurveyCAD or NavCom Survey

LAND-PAK Your Complete Survey System
**LAND-PAK TECHNICAL SPECIFICATIONS**

### PERFORMANCE

- Multi-constellation Support
  - Multi-frequency GNSS SBAS
- Accuracy (RMS)
  - RTK: <40km
  - RTK Extend (<15min)
- StarFire
- Static (post processed)
- Velocity
- Position & Raw data rates

### COMMUNICATIONS

- Integrated UHF radio
- GSM 3G
- Ports
- Data message formats
- RTK Correction:
- Memory

### ENVIRONMENTAL

- Power
  - Batteries (Li-Ion)
  - External Power
- Temperature (ambient)
  - Operating
  - Storage
- Enclosure
- Certifications

---

**LAND-PAK DATA COLLECTOR SOFTWARE**

**NavCom FieldGenius Key Features**

- Windows Interface with Smart Objects, Incredible Graphics
- Real-Time Drawing Generation with Automatic Linework
- Enter, edit, and stake points
- Built in COGO – Intersections, Inversing, Traversing
- DXF Import of Background, and lines, arcs, polylines & points
- 3D Data View with Dynamic Zoom, Pan, Scroll
- Import/Export DXF, ASCII or FBK for painless Autodesk import
- RTK network support via GSM
- StarFire support
- Support for total stations

**NavCom SurvCE Key Features**

- Easy to use Tab-based Menu Interface with Enhanced Graphics
- Enter, edit, and stake points
- Supports LandXML points
  - DTM, graphics, alignments, profiles & sections
- Hot List lets users jump to the SurvCE 2 routines that previously had shortcuts without having to memorize key strokes.
- Supports several GPS network protocols
  - NTRIP, TCP & UDP
- Allows the user to code in numerous coding styles that may be defined by their office package.
- Automatic Geodetic Transformations
- RTK network support via GSM
- Support for total stations

---

**LAND-PAK DESKTOP SOFTWARE**

**NavCom SurveyCAD Key Features**

- Integrated Survey, Design and CAD Functions – Download, calculate, design, draft, check and print
- Powerful Survey Calculations – COGO, coordinate transformations, Multi-point averaging, cluster analysis, right of ways, areas, fixed areas, mass intersections, multiple perpendicular ties and stake computations
- Complete Traverse or Network Adjustments – Angle Balance, Transit, Compass, Crandall’s Classical Methods, Vertical Balance, Full 3D Least Squares Adjustment and Reprocessing & pre-analysis
- Active Drawing Technology

**NavCom Survey Key Features**

- The most popular office survey solution in the U.S. and is now translated into 5 different major languages
- Built on IntellilCAD 7.2
- Project Setup: Flexible data storage methods
- Drawing Cleanup: Fix common drafting errors
- Data Compatibility: Supports industry standard LandXML and scores of specific data conversions

---

**CONTROLLER - Nautiz X8**

- Display 4.7” FWVGA (854x480); IPS; 600 nits, capacitive multi-touch Asahi Dragon trail chemically strengthened glass
- Operating system Windows Embedded Handheld 6.5.3
- Communication Bluetooth 2.0
- WLAN: Integrated 802.11b/g/n
- Battery Li-Ion, 3.7V 5200mAh (19.2 Wh)
- Storage 1 GB RAM/4 GB iNAND Flash
- Camera 8-megapixel rear-facing camera with autofocus and LED illumination
- Temperature -30 C to +60 C
- Enclosure Waterproof (IP67, IEC 60529), Shock/vibration resistant (MLSTD-810G)
- Certifications FCC / CE

---

**CONTROLLER - Archer2**

- Display Sunlight readable, High visibility backlit LCD, WVGA LCD TFT (800x480)
- Operating system Windows Embedded Handheld 6.5.3
- Communication Bluetooth 2.1 + EDR
- WLAN: WiFi-802.11b/g/n with extended range, 3.75G modem
- Battery Intelligent Li-Ion battery 3.7VDC@10600mAh, 38.16Whr
- Storage 8GB Flash
- Camera 5MP resolution w/autofocus and LED illuminator+video capture
- Temperature -30 C to +60 C
- Enclosure Waterproof (IP68), Shock/vibration resistant (MIL-STD-810G)
- Certifications FCC / CE

---

© 2015 NavCom Technology, Inc.
NCT-20150824a

LAND-PAK comes with SHZ Standard. Contact your dealer for other options.

Technical specifications subject to change at NavCom’s discretion.