SHC2500
Rugged, Alphanumeric
Handheld Controller

Sokkia
A Rugged Data Collector with a Full-Featured Keyboard, 5 MP Camera and Lots of Memory.

624MHz XScale Processor with Windows® CE.NET 5.0 Operating System
Windows CE.NET operating system provides a modern operating environment and added expandability with other application software. The fast 624MHz processor leads in performance and reliability. Simple and familiar functionality leads to short learning curves. It also allows higher resolution images to be processed.

Extra Memory
The SHC2500 is loaded with all the memory you should need. Primary program ram is 256MB. In addition, it includes 2GB Flash storage memory.

USB Flash Drive
Use the USB mini port as both a Host and Client. This On-The-Go functionality allows for expanded memory and easy file transfer through USB flash drives or ActiveSync connection. This design also provides rugged protection. The SHC2500 can not be compromised by opening a card door or flap. The entire unit is sealed and submersible.

Bluetooth® Wireless Technology
Bluetooth wireless technology and Wireless LAN comes standard. No need for expensive upgrades or CF cards. The SHC2500 comes with the ability to turn them off as well to conserve battery power when Bluetooth functionality is not needed. Use your device in a typical Hotspot to surf the web, check weather, e-mail files back to the office, etc.

5.17 Megapixel Camera
That’s right, a full 5.17 megapixel camera with auto focus picture taking ability. The camera has an auto-focus function and a flash illumination. Store photos in BMP or JPG format, and if you fill the memory, simply use a common USB flash drive to offload images. This highly advanced camera can be used to associate photos with stored SSF points as Photo Notes. For every topo shot, as photo note can be stored.

Bar Code Reader
The digital camera doubles as a bar code reader. Laser pointers identify the bar code and scan that information directly into the text field you have your cursor placed. Imagine your stakeout locations having a bar code attached to the stake. Simply place your blinking cursor into the description or point number field of SSF and press the Bar Code scan button. The field will fill with the bar code information.

Waterproof and Rugged
The SHC2500 is rated at IP-67, which means it can be temporarily submersed in water. The unit also has a 4 foot drop proof rating.
Alphanumeric, Ruggedized Design

If you are looking for an alphanumeric controller plus joystick that provides big-time results, look no further than Sokkia’s SHC2500. The SHC2500 field controller incorporates the graphical Windows® CE.NET 5.0 operating system on a crisp, bright, color touch screen display that makes your field data come alive.

Removable, Hot Swappable Battery Packs

With two Li-ion batteries loaded standard with 2500mAh each, battery performance can be as high as 50 hours. The typical power drain from a Bluetooth connection to a GPS receiver will run for 24 hours. Don’t ever worry about overcharging, the SHC2500 has internal temperature monitors to prevent any unexpected high temperature issues.
SHC2500 General Specifications

Microprocessor
- XScale PXA 270

Processor Speed
- 624 MHz

Operating System
- CE.NET 5.0

Memory
- 256MB SDRAM, 2GB System Flash

Display
- Display Resolution: 320 x 240 QVGA
- Type: 3.52 in. TFT Color LCD, Sunlight-readable
- Light: LED Back Light
- Touch Panel: Amorphous Silicon Active Matrix

Keyboard
- 55 Keys plus Arrow Key

LED
- 6 LED Indicators

Interface
- RS-232C (D-Sub 9pin), Mini USB 2.0 (host/client)

Audio
- Integrated Speaker and Microphone

Wireless Communication
- Bluetooth Ver. 1.2, Class 2
- Wireless LAN 802.11 b/g

External Power
- 12-18 VDC (36 Watts)

Dust/Water Protection
- IP67 (IEC 60529)

Humidity
- Up to 95% (non-condensing) (MIL-STD 810F Method 507.4)

Operating Temperature
- -4 to +122ºF (-20 to +50ºC)

Storage Temperature
- -4 to +158ºF (-20 to +60ºC)

Drop and Shock
- 4ft. all faces (MIL-STD 810F Method 516.5IV)

Operating Time
- 40 hours (typical), Configuration Dependent

Charging Time
- Approx. 3 hours

Batteries
- 2 Hot-swappable, Li-ion Rechargeable, 2,500mAh each, 7.4V

Dimensions
- 10.85in. x 5.34in. x 2.19in.

Screen Dimensions
- 2.89in. x 2.19in.

Weight
- 2.3 lbs. with Dual Batteries, 2.42 lbs. with RS-1

Regulatory Compliance
- FCC Part 15 • CE • IC • RoHS
- WEEE • C-tick • EU Battery Directive

Camera Specifications - Rugged True-Camera System

Image Sensor
- 5.17MP Color CMOS Sensor (4MP Processed)
- Auto-focus, Mechanical Shutter, Aperture and 4 LED Illuminators

Resolutions
- QSXGA: 2048 x 1944, SXGA: 1280 x 960
- VGA: 640 x 480, HF: 320 x 200

Total Solution - Maximize the use of Sokkia’s SHC2500 with Spectrum Survey Field

- Large graphical user interface (GUI)
- Intuitive Operation
- Graphical Stakeout
- Available for Windows Mobile®, Windows CE, Windows Mobile® handhelds or on-board