

# Socket<sup>®</sup> with Bluetooth<sup>®</sup> Wireless Technology

## Cordless Hand Scanner<sup>™</sup> Series 7



### Scan Bar Code Data Wirelessly into Your *Bluetooth* Enabled Pocket PC, BlackBerry, Palm PDA, Notebook or Tablet PC

If you need to collect bar code data but don't want to be tied to your mobile or desktop computer, the Socket Cordless Hand Scanner (CHS) Series 7 with *Bluetooth* wireless technology is just what you're looking for. This innovative device combines the power of laser bar code scanning with the convenience of *Bluetooth* wireless technology in a compact, lightweight device that is ergonomically designed to fit comfortably in the palm of your hand.



#### Laser Scanning with "Fuzzy Logic"

The CHS is available in two laser versions — the CHS 7M (Class 1 laser) and CHS 7P (Class 2 laser). Both feature "fuzzy logic" technology, so you can scan even damaged, poor-quality or hard-to-read bar codes. The robust CHS 7P offers maximum performance, enabling you to successfully scan in the harshest conditions — even VIN bar codes through car windshields outdoors in broad daylight! The CHS uses minimal power, so you can operate for hours without having to recharge batteries.

#### Powerful *Bluetooth* Radio

*Bluetooth* wireless technology transforms how devices connect with each other, providing you with mobility like never before. The CHS features a powerful Class 1 *Bluetooth* radio that enables connections at the maximum possible range — even when connected to the weaker Class 2 *Bluetooth* radios found in many mobile computers.



#### Error Proof Data and Automatic Connections

The Socket Error Proof Protocol<sup>™</sup> ensures that the host computer correctly receives the scanned data, by validating data in real time. Socket Connect!Agent<sup>™</sup> software for Windows Mobile and XP makes *Bluetooth* easy to use by automatically configuring and managing the wireless connection. Connect!Agent runs in the background and needs no user interaction, giving the best experience of *Bluetooth* technology.

#### SocketScan<sup>™</sup> software

SocketScan<sup>™</sup> software directs scanned data into any Windows, Palm, RIM or Symbian application as if it were manually typed, so you can use the CHS with your favorite application.



### General Features

- Compatible devices if *Bluetooth* enabled:
  - Pocket PC or other device running:
    - Windows Mobile 2003, 2003SE, 5.0
    - Windows CE 3.0 or greater
  - Windows XP Tablet or notebook PC
  - Palm PDA (Palm OS 5.2 or later)
  - RIM BlackBerry 7290 or 7100 series
  - Symbian Smartphone (Series 60/80)
- Exclusive *Error Proof Protocol* (pat.pend.):
  - Prevents errors in wireless transmission of data to host computer
  - Allows for real-time data validation
  - Good scan signal appears only after data is received and confirmed by host
- Powered by 2 rechargeable AAA NiMH batteries. 110-250V AC charge module included. Optional charging cradle - CHS 7P
- Expected battery life - typical operating conditions: 8,000 scans in 10 hours
- LED indicates battery level, *Bluetooth* connection, and good read status
- Standard alkaline batteries can be used
- Built-in stylus tip for PDA touch screens
- Attachment point for lanyard/belt clip (included) or wrist strap

### Scanning Features

- Standard version (CHS 7M) features a Class 1 laser with fuzzy logic for normal scanning applications
- Ruggedized version (CHS 7P) has a Class 2 laser with fuzzy logic for more demanding scanning requirements
- SocketScan keyboard emulation software directs scanned data into any Windows, Palm, RIM or Symbian application
- Automatically add Prefixes and/or Suffixes like Carriage Return and Tab to further eliminate manual keystrokes
- Easily enable/disable any of 19 supported bar code symbologies
- Scan Demo<sup>™</sup> for Windows Mobile reports the symbology, length and decoded data of bar codes (for supported symbologies)

### Bluetooth Features

- Class 1 *Bluetooth* radio has maximum range of 300 ft (100 m)
- Connect!Agent software automatically configures and manages the *Bluetooth* connection
- Uses *Bluetooth* Serial Port profile

# Socket Cordless Hand Scanner

with Bluetooth® Wireless Technology



## Cordless Hand Scanner with Bluetooth Wireless Technology

**CHS 7M:** SKU# CX2800-489  
**CHS 7P:** SKU# CX2821-656

Items not shown to scale and may vary slightly from those shown.



- In the Box:** (clockwise from top left)
- Cordless Hand Scanner with Bluetooth Wireless Technology (version 7P shown)
  - AC Charger with plugs for U.S., Europe, U.K., Australia
  - 2 NiMH rechargeable AAA batteries
  - Installation CD
  - Lanyard/belt clip with retractable tether
  - Optional charging cradle for CHS7P

## SPECIFICATIONS

### Physical Characteristics

Size: 125L x 31h x 35w (mm)  
 4.9L x 1.2h x 1.4w (in.)  
 Total Mass: approx. 90 g (3.2 oz)

**Power Source:** Two AAA NiMH rechargeable batteries

**Expected Battery Life - Typical Usage with Bluetooth connection:**  
 Minimum 8,000 scans in 10 hours

**Operating Temp:** 32 to 120°F (0 to 50°C)

### Operating System Support

- Windows Mobile 2003, 2003SE, 5.0
- Windows CE 3.0 or greater
- Windows XP, Windows XP Tablet Edition
- Palm OS v5.2 and later
- BlackBerry Handheld Software 4.0.x (BES 4.0 or greater also required)
- Symbian Series 60/80

### Interface Standards:

Bluetooth Serial Port Profile

**Warranty:** Two years

### Scanning Characteristics (CHS 7M/7P)

**Bar Code Symbolologies Decoded:** UPC/EAN, Code 39, Code 128, RSS-14, Code 93, MSI, Codabar, I 2 of 5, D 2 of 5

### Laser Scanner Performance:

**Scan Repetition Rate:** 50 (± 3) scans/sec (bi-directional)

### Scanner Type:

- CHS 7M (mid-range): Class 1 laser with fuzzy logic
- CHS 7P (performance-level, ruggedized): Class 2 laser with fuzzy logic
- CHS 7E (entry-level): CMOS linear imager

**Decode Distances:** 2.2 to 30+ inches

*Depends on symbol size, symbology, label media, W-N Ratio, scan angle. User's Guide has more information.*

### Included Software:

- SocketScan reads bar code data into any Windows, Palm, RIM or Symbian program as if it were manually typed
- Connect!Agent for Windows Mobile and XP makes Bluetooth easy to use by automatically configuring and managing the wireless connection

### Bluetooth Characteristics

**Protocol:** Bluetooth 2.45 GHz ISM band frequency hopping

**Antenna:** Integrated

**Radio Range:** Up to 330 ft (100 m), depending on environment

**Connection:** Point-to-point

**Security:** Encrypted link

**RF Power:** Class 1 radio; Typ. Output: 14 dbm

### Supported Bluetooth Stacks for Windows:

- Socket Drakar v1.4 (Socket SD/CF card)
- IVT BlueSoleil v.1.6.1.4 (Socket CF/USB)
- Broadcom (Widcomm) v1.4
- Microsoft Bluetooth stack for Windows Mobile
- Microsoft Windows XP SP2
- Toshiba Bluetooth stack v3.03.06 or greater for Windows XP

*Other Bluetooth stacks may be compatible for Windows but have not been tested by Socket. For Windows XP, the optional Connect!Agent software works only with the Socket (IVT) and Microsoft Bluetooth stacks.*

### Certification/Compliance

FCC: Part 15, Class B

CE: EN55024:1998

C-TICK: s.182

Bluetooth 1.1

TELEC

ETS 300 328 ETS 300 826



## ADDITIONAL PRODUCT INFORMATION

### Sales Offices

### Corporate Headquarters:

37400 Central Court  
 Newark, CA 94560

**Phone:** 510-744-2700

**Domestic Toll Free:** 800-552-3300

**Fax:** 510-744-2727

**Online:** [www.socketcom.com/contact](http://www.socketcom.com/contact)

**Web:** [www.socketcom.com](http://www.socketcom.com)

Learn about Class 1 and Class 2 lasers:

[www.socketcom.com/pdf/TechBriefClass1Class2.pdf](http://www.socketcom.com/pdf/TechBriefClass1Class2.pdf)

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