

# SP5500 OptimusS

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## Mobile Computer

Honeywell's SP5500 OptimusS™ is a compact portable data terminal designed for retail and light warehouse data collection applications, including inventory, stocking, order-picking and shipping/receiving.

The SP5535 OptimusSBT™ incorporates Bluetooth® connectivity for real-time data transfer and easy integration with any Class 2 Bluetooth® (up to 10 m) peripheral.

OptimusS and OptimusSBT feature navigation and software development tools that make customizing applications for even the toughest data-collection challenges a snap.

Each OptimusS comes with the Optimizer software package to facilitate application development. This graphically-oriented program allows even computer beginners to quickly and easily setup the applications they wish to run on their terminal. There are also several simple utilities for uploading and downloading of data. The entire software suite is designed to make application development a painless process.

Both devices come with software for quick configuration to any mobile computing program or database. Their 2MB of memory accommodate large inventories and rechargeable batteries provide hours of scanning operation (OptimusS: 100 hours; OptimusSBT: 36 hours).

For more information on the SP5500 OptimusS mobile computer, please visit [www.honeywellaidc.com](http://www.honeywellaidc.com)



## Features

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- **LCD Display with Backlight and Adjustable Font:** Easy to view screen to accommodate different users and environments
- **Small Form Factor:** Same feature set as bulkier units in a lighter, easier to handle package
- **Cradle Communicates RS232 and USB:** One cradle does both, so a simple cable swap gives users quick-change ability
- **Fully Charged Battery Lasts Approximately 100 Hours:** Minimizes down time; speeds up the inventory process
- **Several Programming Options (Optimizer, BASIC, C):** Accommodates different levels of programming skills from beginner to advanced (SP5500 only)
- **Class 2 Bluetooth Technology (up to 10 m):** Allows real-time data transfer up to 10 meters to a variety of devices

# SP5500 OptimusS Technical Specifications

## System Architecture

CPU	16-bit CMOS, low power consumption
Memory	Program memory: 2 MB flash ROM Data memory: 2 MB SRAM
Display	LCD - 100 x 64 pixels, back-lit
Battery	Main: 3.7 V, 700 mAh Li-ion rechargeable; Back-up: 3.0 V, 7 mAh Li-ion rechargeable
Imager/Scanner	Laser scanner visible Laser Diode 650 nm ± 10 nm
Keypad	21 rubber keys; alpha/numeric, function, scanner
Audio	Programmable buzzer 1 kHz – 4 kHz
I/O Ports	Unit: Cradle IR, Class 2 Bluetooth (optional); Cradle: USB, RS232, Modem cradle (56k)
Development Environment	Windows-based Optimizer; optional C & BASIC compilers

## Wireless Connectivity

WPAN	Class 2 Bluetooth (up to 10 m)
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## Physical & Environmental

Dimensions (LxWxH)	Terminal: 137 mm x 55 mm x 28 mm (5.4" x 2.2" x 1.1"); Cradle: 58 mm x 92 mm x 110 mm (2.3" x 3.6" x 4.3")
Weight	140 g (4.9 oz) - including batteries
Temperature	Operating: 0°C to 55°C (32°F to 131°F); Storage: -20°C to 60°C (-4°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.2 m (4') drops

## Regulatory & Compliance

Safety	IEC60950-1, CE, UL, C-Tick
EMC	FCC Part 15, ICES-003, EN55022 Class A
Radio	FCC, IC, CE, BSMI, C-Tick, MIC
Laser Class	Class 2: IEC60825-1; EN60825-1



**For more information:**  
[www.honeywellaidc.com](http://www.honeywellaidc.com)

### Honeywell Security & Data Collection

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Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	70 mm - 95 mm (2.8" - 3.8")
7.5 mil	57 mm - 171 mm (2.3" - 6.8")
10.4 mil	50 mm - 210 mm (2.0" - 8.3")
13 mil	50 mm - 254 mm (2.0" - 10.0")
19.5 mil	75 mm - 300 mm (3.0" - 11.8")

\*Resolution: 5 mil (0.127 mm)  
 \*Performance may be impacted by bar code quality and environmental conditions

