

SP5600 OptimusR

Mobile Computer

Honeywell's SP5600 OptimusR™ mobile computer provides a rugged solution for batch data collection applications in demanding environments including dusty warehouses, steamy stockrooms, wet loading docks and freezing distribution centers.

Incorporating Wi-Fi® communication technology (802.11 b/g), the SP5650 OptimusRW easily integrates with standard wireless networks for long range, real-time data transfer up to 250 meters.

Engineered for durability, the OptimusR series offers an IP65-rated design that is impervious to water, dust and dirt. Its reinforced housing protects the computer in falls from heights as high as 1.2 meters.

Ergonomic design features large, backlit computer keys for single hand operation. OptimusR further lowers the cost of ownership by rapidly downloading data through a direct-connection option which eliminates the expense of a terminal cradle.

OptimusR comes with 2MB of memory (4MB & 8MB optional) for accommodating larger inventories. It maximizes uptime and labor efficiency with a rechargeable battery which provides 200 hours of continuous scanning operation per charge.*

OptimusRW comes with 256 KB of data memory (2MB, 4MB & 8MB optional) for accommodating larger inventories. The Lithium-ion rechargeable battery allows for over 40* hours of scanning.

For more information on the SP5600 OptimusR mobile computer, please visit www.honeywell.com/aidc



Features

- **Plastic Housing with Integrated Rubber:** Reinforced unit construction enhances durability
- **IP65-Rated:** Protects components from harsh and demanding environments
- **Rechargeable Battery:** Maximizes uptime and labor efficiency
- **Optimizer Software Suite:** Graphical software package makes setup and use quick and easy
- **Ergonomic Design with Large, Backlit Keys:** Shape and key placement facilitates comfortable one-handed operation
- **IEEE802.11 b/g with WPA:** Advanced wireless connectivity provides secure, real-time data transfer (SP5650 only)

SP5600 Optimus^R Technical Specifications

Operational

Light Source	Visible Laser Diode 650 nm ± 10 nm
Audible Indicators	Programmable buzzer (1 kHz - 4 kHz)
Visual Indicators	LED: Dual-color; programmable green or red
CPU	16-bit CMOS, low power consumption
Program Memory	2 MB flash ROM
Data Memory	SP5600: 2 MB SRAM (4 MB or 8 MB optional) SP5650: 256 KB (2 MB, 4 MB or 8 MB optional)
Display	LCD - 128 x 64 pixels, back-lit
Display Resolution	8 lines x 20 characters (max), 4 lines x 15 characters (min)
Keypad	24 rubber keys; alpha/numeric, function, scanner (optional 39 keys)
WLAN (Optional)	IEEE802.11 b/g (up to 54 Mbps)
Host System Interfaces	Unit: USB, RS232, IrDA, Cradle-IR or WiFi (SP5650 only) Cradle: USB, RS232
Security	64/128 bit WEP, EAP, WPA-PSK (TKIP)
Application Development	Windows-based Optimizer; optional C & BASIC compilers

Mechanical/Electrical

Dimensions (LxWxH)	Terminal: 47 mm x 82 mm x 172 mm (1.8" x 3.2" x 6.8") Cradle: 106 mm x 96 mm x 80 mm (4.2" x 3.8" x 3.1")
Weight	300 g (10.6 oz) - including batteries
Laser Class	Class 2: IEC60825-1; EN60825-1
EMC	FCC Part 15, ICES-003, EN55022 Class B

Battery

Battery	Main: 3.7 V, 1800 mAh Li-ion rechargeable; Back-up: 3.7 V, 7.0 mAh Li-ion rechargeable
Expected Hours of Operation	SP5600: over 200 hours; SP5650*: over 40 hours <i>*depends on use-case and network traffic</i>
Expected Charge Time	Less than 3 hours

Environmental

Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-30°C to 60°C (-22°F to 140°F)
Humidity	5% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.2 m (4') drops
Environmental Sealing	IP65

Scan Performance

Scan Pattern	Single scan line
Scan Speed	42 scan lines per second
Print Contrast	35% minimum reflective difference
Decode Capability	Code 39, Code 93, Code 128, UPC/EAN/JAN, Code 2 of 5, Code 11, Codabar, MSI Plessey, GS1 DataBar, Telepen, Triopticon



For more information:

www.honeywell.com/aidc

Security & Data Collection

Honeywell Scanning & Mobility

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Typical Performance*	
Narrow Width	Depth of Field
5.2 mil	76 mm - 127 mm (3.0" - 5.0")
7.5 mil	64 mm - 203 mm (2.5" - 8.0")
10 mil	51 mm - 279 mm (2.0" - 11.0")
13 mil	51 mm - 381 mm (2.0" - 15.0")

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

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