**Metrologic**®
We really work for you.™

**SP5600 Optimus*R*™**

**Metrologics Optimus*R*™ mobile computer provides a rugged solution for batch data collection applications in demanding warehouse and distribution center environments.**

Impervious to water, dirt and dust, Metrologic's Optimus*R* provides a robust solution for efficient batch data collection in any demanding environment, including: inventory in dusty warehouses or steamy stockrooms, receiving products on wet loading docks and picking applications in freezing distribution centers

Besides an IP65 rating, Optimus*R*'s reinforced housing protects it in falls from heights as high as 1.2 meters.

Ergonomic design features include large, backlit computer keys for single hand operation. Optimus*R* further

lowers the cost of ownership by rapidly downloading data through a direct-connection option which eliminates the expense of a terminal cradle.

Optimus*R* 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.

Easy navigation and software development tools make customizing an application for even the toughest bar code scanning challenges a snap.
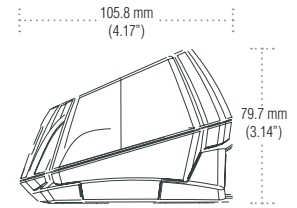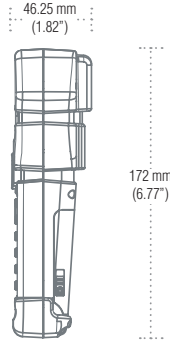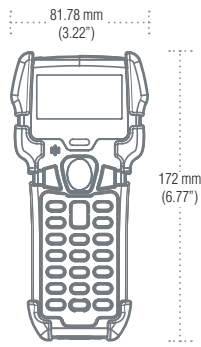
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| Features | Benefits |
|---|---|
| • Plastic housing with integrated rubber | Reinforced unit construction enhances durability |
| • IP65-rated | Protection components from harsh and damanding environments |
| • Rechargeable battery | 200 hours per charge 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 |

81.78 mm (3.22")
172 mm (6.77")

46.25 mm (1.82")
172 mm (6.77")

105.8 mm (4.17")
79.7 mm (3.14")

## OPERATIONAL

### System

| | |
|---|---|
| CPU | 16-bit CMOS, low power consumption |
| Program Memory | 2 MB flash ROM |
| Data Memory | 2 MB SRAM (optional 4 MB or 8 MB) |
| Display | LCD - 128 x 64 pixels, back-lit |
| Resolution | 8 lines x 20 characters (max), 4 lines x 15 characters (min) |
| Keypad | 24 rubber keys; alpha/numeric, function, scanner (optional 39 keys) |
| Indicators | Buzzer - programmable audible indicator (1 KHz - 4KHz)<br>LED - Dual-color, programmable green and red |
| Communication (Unit) | RS232, USB or Cradle-IR |
| Communication (Cradle) | RS232, USB |
| Application Development | Windows-based Optimizer; optional C & BASIC compilers |

## MECHANICAL

| | |
|---|---|
| Height | Unit: 172 mm (6.77"); Cradle: 79.7 mm (3.14") |
| Depth | Unit: 46.25 mm (1.82"); Cradle: 105.8 mm (4.17") |
| Width | Unit: 81.78 mm (3.22") |
| Weight | 300 g (10.6 oz) - including batteries |

## ELECTRICAL

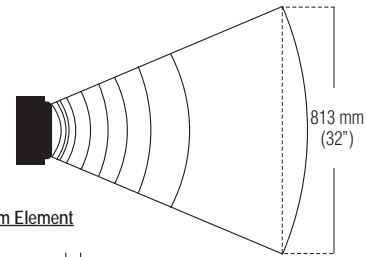| | |
|---|---|
| Battery Operation | Li-ion |
| Battery Backup | 3.0V, 7.0mA hours, rechargeable lithium battery |
| Operation | Over 200 hours |
| EMC regulation | FCC Class A, CE and C-Tick approved |

## ENVIRONMENTAL

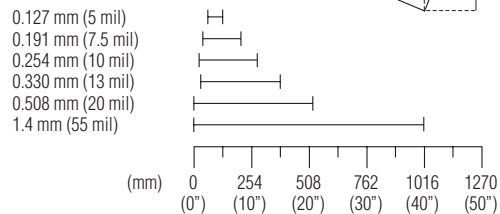| | |
|---|---|
| Operating Temperature | 0°C to 50°C (32°F to 122°F) |
| Storage Temperature | -30°C to 60°C (-22°F to 140°F) |
| Humidity | 5% to 95% relative humidity, non-condensing |
| Shock | 1.2 m (4') drop onto concrete |

## SCAN PERFORMANCE

### Laser Scanner

| | |
|---|---|
| Visible Laser Diode | 650 nm |
| Minimum Bar Width | 0.127 mm (5.0 mil) |
| Width of Scan Field | 305 mm (12") @ 381 mm (15") |
| Depth of Scan Field | 51 mm - 381 mm (2" - 15") for 0.33 mm (13 mil) bar codes |
| Scan Speed | 42 scan lines per second |
| Print Contrast | 35% minimum reflective difference |

## *Scan Area*

813 mm (32")

**Bar Code Minimum Element**

0.127 mm (5 mil)
0.191 mm (7.5 mil)
0.254 mm (10 mil)
0.330 mm (13 mil)
0.508 mm (20 mil)
1.4 mm (55 mil)

| (mm) | 0 (0") | 254 (10") | 508 (20") | 762 (30") | 1016 (40") | 1270 (50") |
|---|---|---|---|---|---|---|

Product Colors Available — Graphite Grey — SP5600 is available in a variety of other colors with minimum quantity purchase.

SP5600