

# Orbit 7120/OrbitCG 7180

## Omnidirectional Laser Scanners

Honeywell's Orbit® series of scanners provide aggressive omnidirectional scanning in an award-winning design for retailers seeking an affordable, aesthetically-pleasing scanning solution.

Orbit, the all-time, best-selling hands-free omnidirectional scanner, presents an innovative, elegant and affordable solution for convenience retail applications where counter space is at a premium.

Compact, lightweight and rugged, Orbit maximizes customer satisfaction and employee efficiency with a patented 20-line scan pattern, an easy-to-find sweet spot and a scan speed of 1,120 scans per second.

Recipient of multiple design honors, Orbit's award-winning shape enables hand-held scanning of large, bulky items. For added flexibility, the scanning head can be tilted within a 30° range to accommodate objects of various sizes and shapes.

For applications that require menu scanning, OrbitCG 7180 combines the power of patented CodeGate® technology with many of the outstanding features already found in the Orbit® 7120. CodeGate technology allows the user to easily target the desired bar code and complete data transmission with the push of a single button.

The scanner's expanded ability to update its firmware via Honeywell's free patented MetroSet®2 configuration software safeguards long-term infrastructure commitments in the event of a change in the POS system or software.

Standard features include an integrated EAS antenna for tag deactivation (OrbitCG 7180 only), power save mode, user-replaceable cables, Honeywell's patented MetroSelect and MetroSet®2 for easy configuration, data editing and OPOS/JPOS compatibility for easy installation.



## Features

- **20 Scan Line Omnidirectional Pattern:** Provides aggressive scanning as an additional benefit to hand presentation applications
- **Sweet Spot Scanning:** Engineered "sweet spot" to optimize scan performance and first pass read rate
- **Adjustable Scan Head:** Ability to tilt scanner 30° for targeted scanning or larger products
- **Flash ROM:** Protects POS investment with free firmware updates via MetroSet®2 software and standard PC
- **Automatic Scanning Operation:** Simply present a bar code and the unit scans in a single pass
- **Built-in RF EAS Antenna (Orbit 7180 only):** Increases efficiency by simultaneously deactivating RF EAS tags and decoding bar codes

# Orbit 7120/OrbitCG 7180 Technical Specifications

## Mechanical

|                    |   |
|--------------------|---|
| Dimensions (LxWxH) | 105 mm x 102 mm x 150 mm (4.1" x 4.0" x 5.9") |
| Weight             | 400 g (14.1 oz)                               |

## Electrical

|                        |   |
|------------------------|---|
| Input Voltage          | 5 VDC $\pm$ 0.25 V  |
| Operating Power        | 900 mW (180 mA @ 5 V)   |
| Standby Power          | 850 mW (170mA @ 5 V)  |
| Host System Interfaces | USB, RS232, Keyboard Wedge, IBM 468xx (RS485), Light Pen Wand Emulation |

## Environmental

|                       |  |
|-----------------------|--|
| Operating Temperature | 0°C to 40°C (32°F to 104°F)                        |
| Storage Temperature   | -40°C to 60°C (-40°F to 140°F)                     |
| Humidity              | 5% to 95% relative humidity, non-condensing        |
| Drop                  | Designed to withstand 1.2 m (4') drops             |
| Environmental Sealing | Sealed to resist airborne particulate contaminants |
| Light Levels          | 4842 Lux   |

## Scan Performance

|                   |   |
|-------------------|---|
| Scan Pattern      | Omnidirectional: 5 fields of 4 parallel lines; button activated single line (7180)        |
| Scan Speed        | Omnidirectional: 1120 scan lines per second; single line: 56 scan lines per second (7180) |
| Print Contrast    | 35% minimum reflectance difference  |
| Pitch, Skew       | 60°, 60°  |
| Decode Capability | Reads standard 1D and GS1 DataBar symbologies   |
| Warranty          | 3 year factory warranty   |

For a complete listing of all compliance approvals and certifications, please visit [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance)  
 For a complete listing of all supported bar code symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies)



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

| Typical Performance*   | Orbit 7120                | Orbit 7180                 |
|--|---------------------------|----------------------------|
| Narrow Width   | Depth of Field            | Depth of Field             |
| 5.2 mil  | 0 mm - 50 mm (0" - 2.0")  | 0 mm - 50 mm (0" - 2.0")   |
| 7.5 mil  | 0 mm - 150 mm (0" - 5.9") | 0 mm - 150 mm (0" - 5.9")  |
| 10 mil   | 0 mm - 175 mm (0" - 6.9") | 0 mm - 220 mm (0" - 8.7")  |
| 13 mil   | 0 mm - 215 mm (0" - 8.5") | 0 mm - 275 mm (0" - 10.8") |
| 26 mil   | 0 mm - 250 mm (0" - 9.8") | 0 mm - 300 mm (0" - 11.8") |
| *Resolution: 5 mil (0.125 mm)<br>*Performance may be impacted by bar code quality and environmental conditions |                           |                            |

## Honeywell Scanning & Mobility

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