

# 3800i

## Industrial-Grade Linear-Imaging Scanner

The 3800i hand-held industrial image readers are the first industrial class readers to bring you Honeywell's industry-leading image technology. This technology allows you to read bar codes at ranges up to 82" (208 cm). In real world applications, this extended read range means less climbing and reaching, and more operator productivity.

Based on proprietary image technology, the 3800i picks up your bar code image and processes its content 270 times per second. In a fraction of a second, the Honeywell digital image processor quickly and easily determines the data content and sends it to your host computer. This proprietary technology quickly and securely identifies poor quality symbols, and still delivers snappy performance.

We are so confident the 3800i image reader will withstand your industrial applications that we have backed it by a solid warranty. Every 3800i comes to you with a three-year warranty against defects. Shock absorbing rubber overmold on the case and a sealed optics module ensure this device will survive dozens of 6.5' (2 meter) drops to concrete. Although we do not expect you to treat your reader this way, we know it will survive many years of accidental abuse.

Your industrial applications often take you into environments that challenge many devices. Your loading dock has extreme temperature variations, dirt, dust, and rain that will stress many bar code scanners. The 3800i is environmentally sealed to an IP54 rating, which prevents dust and water from entering the units and degrading performance. Sometimes you need to use this device outdoors during winter or other freezing temperature conditions. This imager withstands applications that subject it to constant -22°F (-30°C) temperatures and still survives.

For reading in applications that exhibit high ambient light, the 3800i can be ordered with an aiming beam, which offers true point and shoot performance without moving laser optics. This option allows the operator to reliably find and scan the code.



### Features

- **Superior Read Range:** Imaging technology now extends the performance range out to 82" (208 cm) on linear codes, eliminating the need to reach and climb to scan codes
- **Durable:** There are no moving parts to wear out and Honeywell backs this with an industry-leading three-year warranty, ensuring reliable performance year after year with no downtime
- **Easy-to-Use:** True point and shoot hand-held ergonomics easily fits oversized gloved hands, while intuitive aiming means operators will become productive quickly
- **Rugged Packaging:** An impact-absorbing, shock-resistant housing withstands fifty 6.5' (2 meter) drops, and is sealed to prevent dust, moisture, and other contaminants from entering the scanner—designed to survive the most demanding industrial applications
- **Fast and Aggressive Decode:** Even on poorly printed or damaged codes, the 270 scans per second digital image logic is over six times faster than other technologies, allowing users to spend less time trying to re-scan poor codes and speed up the work process

# 3800i Technical Specifications

| Mechanical             |  |
|------------------------|--|
| Dimensions (LxWxH)     | 135 mm x 81 mm x 163 mm (5.3" x 3.2" x 6.4")   |
| Weight                 | 213 g (7.5 oz)   |
| Electrical             |  |
| Input Voltage          | 4.5 - 14 VDC   |
| Operating Power        | 1.2 W (235 mA @ 5 V); 1.7 W (142 mA @ 12 V)  |
| Standby Power          | 340 mW (68 mA @ 5 V); 590 mW (49 mA @ 12 V)  |
| Host System Interfaces | USB, TTL Level RS232, True RS232, Keyboard Wedge, IBM 46xx (RS485), Light Pen (Wand) Emulation |
| Environmental          |  |
| Operating Temperature  | -30°C to 50°C (-22°F to 122°F)   |
| Storage Temperature    | -40°C to 60°C (-40°F to 140°F)   |
| Humidity               | 0 to 95% relative humidity, non-condensing   |
| Drop                   | Designed to withstand 2.0 m (6.5') drops   |
| Environmental Sealing  | IP54   |
| Light Levels           | 70,000 Lux   |
| Scan Performance       |  |
| Scan Pattern           | Linear Image (CCD: 3648 pixels)  |
| Scan Speed             | 270 scans per second   |
| Motion Tolerance       | 5 cm/s (2 in/s) with 13 mil UPC at optimal focus   |
| Scan Angle             | Horizontal: 47°  |
| Print Contrast         | 20% minimum reflectance difference   |
| Pitch, Skew            | 65°, 65°   |
| Decode Capabilities    | 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)

| Typical Performance* |                               |
|----------------------|-------------------------------|
| Narrow Width         | Depth of Field                |
| 7.5 mil              | 165 mm - 381 mm (6.5" - 15")  |
| 100% UPC             | 64 mm - 711 mm (2.5" - 28")   |
| 15 mil               | 64 mm - 787 mm (2.5" - 31")   |
| 20 mil               | 38 mm - 1067 mm (1.5" - 42")  |
| 55 mil               | 102 mm - 2083 mm (4.0" - 82") |

\*Resolution: 7.5 mil (0.191 mm)  
 \*Performance may be impacted by bar code quality and environmental conditions



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

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