# 3800g

## Linear-Imaging Scanner

From the global leader in imaging technology comes the 3800g—the newest member of the legendary 3800 family of linear imagers.

The first in a new class of 3800 linear imagers, the 3800g was built to deliver world-class performance for a broad range of market applications.

Featuring an ideal balance of performance, durability, ergonomics, and connectivity solutions, the 3800g delivers years of hassle-free scanning for applications in retail, warehouse, manufacturing, distribution—and all points in-between.

The first linear imager to earn the Adaptus® Imaging Technology brand, the new 3800g is powered by Adaptus 5.0, delivering breakthrough linear imaging performance and versatility. Fast, intuitive bar code reading across a range of high and low density codes, the 3800g quickly reads even damaged and poorly printed bar codes—all in a single device.

Sound, ergonomic design and class-leading durability, coupled with aggressive reading performance, makes the new 3800g the ideal choice for customers who appreciate best-in-class value in a hand-held linear reader.

## Features

- **Performance and Versatility Powered by Adaptus Imaging Technology 5.0:**
  - Excellent tolerance to lateral hand motion (4x faster) makes 3800g easy to use.
  - 270 scans per second makes bar code reading faster than ever.
  - Improved depth of field across a broad range of linear bar codes.
  - Working range from .5 inches to 18 inches on 100% UPC/EAN symbols.
  - Improved ability to read damaged or poorly printed bar codes.
- **General Purpose Reader:** Single device covering the broadest range of customer applications
- **Modern, Ergonomic Design:** Sleek, modern industrial design results in a smaller, lighter device for increased operator comfort and productivity
- **Durable:** No moving parts to wear out. Full impact resistant bumpers and a 5 year warranty make the 3800g one of the toughest scanners on the market

- **Connectivity:** All popular interfaces are on board. Includes Visual Express™ software for ease-of-integration. Supports Unified POS standard and Windows® Embedded for Point of Service, for retail connectivity
- **Common Cabling:** Uses same cable solutions as our linear, 2D, and cordless imagers—for easy ordering and efficient spares pools
- **Future Proof Symbology Support:** GTIN compliant, GS1 DataBar capable
- **Intuitive Aiming Line:** Thin, crisp aiming line for ease-of-use in scanning bar coded menus and densely populated documents
- **Full Line of Accessories:** Includes presentation scanning, global power choice options, and purpose built mounting solutions
- **Intuitive User Feedback:** Fully programmable options for application-specific "good read" LED and beeper settings

# 3800g Technical Specifications

## Mechanical

| | |
|---|---|
| Dimensions (LxWxH) | 112 mm x 79 mm x 150 mm (4.4˝ x 3.1˝ x 5.9˝) |
| Weight | 159 g (5.6 oz) |

## Electrical

| | |
|---|---|
| Input Voltage | 3800GX4E: 5 VDC ± 0.5 V; 3800GX5E: 4.5 - 12 VDC |
| Operating Power | 250mA |
| Standby Power | 3800GX4E: 430 mW (86 mA @ 5 V); 3800GX5E: 780 mW (65 mA @ 12 V) |
| Host System Interfaces | 3800Gx4E: USB, TTL level RS232, Keyboard Wedge<br>3800Gx5E: USB, TTL level RS232, Keyboard Wedge, IBM 46xx (RS485) |

## Environmental

| | |
|---|---|
| Operating Temperature | 32°F to 122°F (0°C to 50°C) |
| Storage Temperature | -40°F to 140F (-40°C to 60°C) |
| Humidity | 0 to 95% relative humidity, non-condensing |
| Drop | Designed to withstand 1.5 m (5´) drops |
| Environmental Sealing | Sealed to resist airborne particulate contaminants |
| Light Levels | 70,000 Lux |

## Scan Performance

| | |
|---|---|
| Scan Pattern | Linear Image (CCD: 3648 pixels) |
| Scan Speed | 270 scans per second |
| Motion Tolerance | 51 cm/s (20 in/s) with 13 mil UPC at optimal focus |
| Scan Angle | 3800g: Horizontal: 47°; 3800ghd: Horizontal: 51° |
| Print Contrast | 20% minimum reflectance difference |
| Pitch, Skew | 65°, 65° |
| Decode Capabilities | Reads standard 1D and GS1 DataBar symbologies. |
| Warranty | 5 year factory warranty |

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies
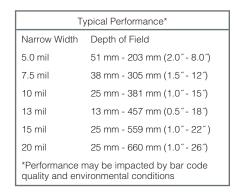
| Typical Performance* | |
|---|---|
| Narrow Width | Depth of Field |
| 5.0 mil | 51 mm - 203 mm (2.0˝ - 8.0´) |
| 7.5 mil | 38 mm - 305 mm (1.5˝ - 12´) |
| 10 mil | 25 mm - 381 mm (1.0˝ - 15´) |
| 13 mil | 13 mm - 457 mm (0.5˝ - 18´) |
| 15 mil | 25 mm - 559 mm (1.0˝ - 22˝) |
| 20 mil | 25 mm - 660 mm (1.0˝ - 26´) |
| *Performance may be impacted by bar code quality and environmental conditions | |

**For more information:**

www.honeywellaidc.com

**Honeywell Scanning & Mobility**

9680 Old Bailes Road

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**Honeywell**

# 3800gHD

## Linear-Imaging Scanner

The 3800gHD is optimized for applications using high-density (HD) barcodes commonly found in electronics manufacturing, telecom, aerospace, and automotive. In addition, the 3800gHD delivers high performance on standard density bar codes, providing ideal versatility for mixed bar code applications.

Based on the proven 3800g platform, the 3800gHD features an ideal balance of performance, durability, and ergonomics that make it a reliable solution for a broad range of light industrial environments.

Powered by Adaptus® Imaging Technology 5.0, the 3800gHD provides fast, intuitive bar code reading across a range of high and low density codes and easily reads damaged or poorly printed bar codes—all in a single device.

In addition to optimal high density performance, the 3800gHD provides the added value of swipe action PDF417 decoding—extending its data capture capability.

Compact, ergonomic design and class-leading durability, coupled with aggressive reading performance, makes the new 3800gHD the ideal choice for customers who appreciate a reliable, versatile, and economical solution to meet their scanning needs.

## Features

- **Optimized for High Density Reading:** Superior reading performance on 3 mil linear bar codes, plus the versatility to read other common linear symbologies.

- **Intuitive Aiming Line:** Thin, crisp aiming line for ease-of-use in scanning bar code menus and densely populated documents.

- **Swipe Action PDF417 Decoding:** Supports PDF417, PDF417 Truncated, Composite, and MicroPDF.

- **Performance and Versatility Powered by Adaptus Imaging Technology 5.0**

  - 270 scans per second and high tolerance to hand motion for fast and intuitive scanning.

  - Working range from .3 inches to 8 inches on medium density barcodes

  - Improved ability to read damaged or poorly printed bar codes.

- **Durable:** Built to last with no moving parts to wear out and backed by a 5-year warranty.

- **Plug and Play Connectivity:** All popular interfaces are on board. Includes Visual Xpress™ software for ease of integration.

- **Future Proof Symbology Support:** GTIN compliant, GS1 DataBar capable.

- **Intuitive User Feedback:** Fully programmable options for application-specific "good read" LED and beeper settings.

# 3800gHD Technical Specifications

| Mechanical | |
|---|---|
| Dimensions (LxWxH) | 112 mm x 79 mm x 150 mm (4.4″ x 3.1″ x 5.9′) |
| Weight | 159 g (5.6 oz) |

| Electrical | |
|---|---|
| Input Voltage | 5 VDC ± 0.5 V |
| Operating Power | 2.3 W (450 mA @ 5 V) |
| Standby Power | 430 mW (86 mA @ 5 V) |
| Host System Interfaces | USB, TTL level RS232, Keyboard Wedge, IBM 46xx (RS485) |

| Environmental | |
|---|---|
| Operating Temperature | 0°C to 50°C (32°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 1.5 m (5′) drops |
| Environmental Sealing | Sealed to resist airborne particulate contaminants |
| Light Levels | 70,000 Lux |

| Scan Performance | |
|---|---|
| Scan Pattern | Linear Image (CCD: 3648 pixels) |
| Scan Speed | 270 scans per second |
| Motion Tolerance | 25 cm/s (10 in/s) with 13 mil UPC at optimal focus |
| Scan Angle | ELS: 51° |
| Print Contrast | 37% minimum reflectance difference |
| Pitch, Skew | 65°, 65° |
| Decode Capabilities | Reads standard 1D and GS1 Databar symbologies. |
| Warranty | 5 year factory warranty |

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance
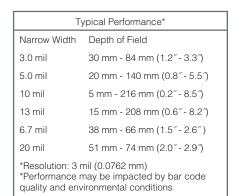For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

| Typical Performance* | |
|---|---|
| Narrow Width | Depth of Field |
| 3.0 mil | 30 mm - 84 mm (1.2″ - 3.3″) |
| 5.0 mil | 20 mm - 140 mm (0.8″ - 5.5″) |
| 10 mil | 5 mm - 216 mm (0.2″ - 8.5″) |
| 13 mil | 15 mm - 208 mm (0.6″ - 8.2″) |
| 6.7 mil | 38 mm - 66 mm (1.5″ - 2.6″) |
| 20 mil | 51 mm - 74 mm (2.0″ - 2.9″) |

*Resolution: 3 mil (0.0762 mm)
*Performance may be impacted by bar code quality and environmental conditions

**For more information:**

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# 3800gPDF

## Linear-Imaging Scanner

The 3800gPDF is built specifically to serve applications that require high-performance linear barcode scanning as well as an economical solution for occasional PDF417 barcode reading.

Based on the proven 3800g platform, the 3800gPDF features an ideal balance of performance, durability, ergonomics, and connectivity that make it a reliable and user-friendly solution for a broad range of light industrial environments including retail, manufacturing, government, healthcare, and distribution.

Powered by Adaptus® Imaging Technology 5.0, the 3800gPDF delivers high-performance linear barcode scanning across a range of bar codes —including those that are damaged or poorly printed. Combined with intuitive PDF417 reading functionality, the 3800gPDF offers versatile, yet economical scanning capability.

Compact, ergonomic design and class-leading durability, coupled with aggressive reading performance, makes the new 3800gPDF the ideal choice for customers who appreciate a reliable, versatile, and economical solution to meet their scanning needs.

## Features

- **Swipe Action PDF417 Decoding:** Fast, accurate, and economical PDF417 reading.
- **Bright, Crisp, and Focused Aiming Line:** Easy to aim and scan codes, regardless of lighting conditions or close bar code proximities.
- **Performance and Versatility Powered by Adaptus Imaging Technology 5.0**
    - 270 scans per second and high tolerance-to-hand motion ensure fast scanning performance.
    - Working range from .3 inches to 8 inches on medium density bar codes
    - Improved ability to read damaged or poorly printed bar codes.

- **Modern, Ergonomic Design:** Sleek, modern industrial design results in a smaller, lighter device for increased operator comfort and productivity.
- **Durable:** Built-to-last with no moving parts to wear out and backed by a 5-year warranty.
- **Plug and Play Connectivity:** All popular interfaces are on board. Includes Visual Xpress™ software for ease of integration.
- **Future Proof Symbology Support:** GTIN compliant, GS1 DataBar capable.
- **Intuitive User Feedback:** Fully programmable options for application-specific "good read" LED and beeper settings.

# 3800gPDF Technical Specifications

## Mechanical

| | |
|---|---|
| **Dimensions (LxWxH)** | 112 mm x 79 mm x 150 mm (4.4˝ x 3.1˝ x 5.9˝) |
| **Weight** | 159 g (5.6 oz) |

## Electrical

| | |
|---|---|
| **Input Voltage** | 5 VDC ± 0.5 V |
| **Operating Power** | 2.3 W (450 mA @ 5 V) |
| **Standby Power** | 430 mW (86 mA @ 5 V) |
| **Host System Interfaces** | USB, TTL level RS232, Keyboard Wedge |

## Environmental

| | |
|---|---|
| **Operating Temperature** | 0°C to 50°C (32°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 1.5 m (5´) drops |
| **Environmental Sealing** | Sealed to resist airborne particulate contaminants |
| **Light Levels** | 70,000 Lux |

## Scan Performance

| | |
|---|---|
| **Scan Pattern** | Linear Image (CCD: 3648 pixels) |
| **Scan Speed** | 270 scans per second |
| **Motion Tolerance** | 25 cm/s (10 in/s) with 13 mil UPC at optimal focus |
| **Scan Angle** | ELS: 51° |
| **Print Contrast** | 37% minimum reflectance difference |
| **Pitch, Skew** | 65°, 65° |
| **Decode Capabilities** | Reads standard 1D, GS1 Databar and PDF417 symbologies. |
| **Warranty** | 5 year factory warranty |

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For a complete listing of all supported bar code symbologies, please visit www.honeywellaidc.com/symbologies

| Typical Performance* | |
|---|---|
| Narrow Width | Depth of Field |
| 5.0 mil | 20 mm - 140 mm (0.8˝ - 5.5˝) |
| 10 mil | 5 mm - 216 mm (0.2˝ - 8.5˝) |
| 13 mil | 15 mm - 208 mm (0.6˝ - 8.2˝) |
| 6.7 mil | 38 mm - 66 mm (1.5˝ - 2.6˝) |
| 20 mil | 46 mm - 69 mm (1.8˝ - 2.7˝) |

*Resolution: 3 mil (0.0762 mm)
*Performance may be impacted by bar code quality and environmental conditions

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