

## 3800g

### Handheld Linear Imager

Der 3800g ist das neueste Modell der legendären 3800-Linear-Imager-Serie von Hand Held Products, dem weltweit führenden Unternehmen im Bereich der Imaging-Technologie.

Als erstes Produkt einer neuen 3800-Linear-Imager-Klasse ist der 3800g für hervorragende Leistungen beim Einsatz in einer Vielzahl von Marktanwendungen konzipiert.

Durch die ideale Kombination von Merkmalen wie Leistung, Dauerhaftigkeit, Ergonomie und seine vielseitigen Anschlussmöglichkeiten bietet dieser lineare Imager über Jahre hinweg kontinuierliche Einsatzbereitschaft bei der Anwendung in Einzelhandel, Lagerwesen, Fertigung, Vertrieb sowie allen dazwischengeschalteten Punkten.

Der neue 3800g, der als erster linearer Imager mit dem Markennamen Adaptus™ Imaging Technology verbunden ist, arbeitet mit Version 5.0 der Adaptus-Imaging-Technologie und kann dadurch ein Höchstmaß an Imaging-Leistung und Vielseitigkeit bieten. Der 3800g ermöglicht nicht nur das schnelle, intuitive Lesen von Barcodes über eine große Bandbreite von Codes mit hoher und geringer Dichte, sondern er kann auch problemlos beschädigte und schlecht gedruckte Barcodes lesen – und dies alles in einem Gerät.

Mit seinem stabilen, ergonomischen Design und seiner hervorragenden Haltbarkeit in Kombination mit einer außerordentlichen Leseleistung ist der 3800g die ideale Wahl für Kunden, die bei einem Handlesegerät zur linearen Bilderfassung ein exzellentes Preis-Leistungs-Verhältnis zu schätzen wissen.



### Merkmale

- **Leistung und Vielseitigkeit auf der Grundlage der Adaptus Imaging Technology 5.0:**
  - Hervorragende Bewegungstoleranz gegenüber seitlichen Handbewegungen (4x schneller) und dadurch hohe Anwenderfreundlichkeit
  - 270 Scans pro Sekunde für noch schnelleres Lesen von Barcodes
  - Verbesserter Leseabstand über eine große Bandbreite von linearen Barcodes
  - Lesebereich von 1,3 cm bis 46 cm bei reinen UPC/EAN-Barcodes.
  - Verbesserte Erkennung von beschädigten oder schlecht gedruckten Barcodes
- **Vielseitiges Lesegerät:** Deckt in einem Gerät eine Vielzahl von Kundenanwendungen ab.
- **Modernes, ergonomisches Design:** Kleineres und leichteres Gerät für höheren Anwenderkomfort und höhere Produktivität durch formschönes, modernes Industriedesign.
- **Robust:** Auf lange Lebensdauer ausgelegt und ohne bewegliche Verschleißteile. Durch hohe Stoßfestigkeit und eine 5-Jahres-Garantie einer der robustesten Scanner auf dem Markt.
- **Anschlussmöglichkeiten:** Alle gängigen Schnittstellen sind verfügbar. Enthält die Software Visual Express™ für einfache Integration. Unified POS Standard und Windows® Embedded for Point of Service für den Anschluss im Einzelhandelsbereich.
- **Gängige Kabel:** Verwendet die gleichen Kabellösungen wie die linearen, 2D- und kabellosen Imager von Hand Held Products und ermöglicht dadurch einfache Bestellung und effiziente Ersatzteillagerung.
- **Zukunftssichere Symbologie-Unterstützung:** GTIN-kompatibel, RSS-fähig.
- **Intuitive Ziellinie:** Dünne, scharfe Ziellinie für die einfache Verwendung beim Scannen von Barcode-Menüs und dicht bedruckten Dokumenten.
- **Umfassendes Zubehör:** Umfasst Präsentationsscannen, globale Optionen für die Stromnetzwahl und Montagelösungen für verschiedene Zwecke.
- **Intuitives Benutzer-Feedback:** Voll programmierbare Optionen für anwendungsspezifische "Good Read"- Anzeige und Signalton-Einstellungen.

# 3800g Technische Daten

| Leistungsmerkmale                |                                                                                                                                                                                                                                                                                                          |                           |                         |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------|
| Beleuchtung:                     | 630 nm LED, sichtbares Rotlicht                                                                                                                                                                                                                                                                          |                           |                         |
| Aufnahmeeinheit:                 | Linearer Imager, 3648 Elemente                                                                                                                                                                                                                                                                           |                           |                         |
| Leseabstand:                     | Von 1,3 cm bis 46 cm bei Barcodes mit mittlerer Dichte                                                                                                                                                                                                                                                   |                           |                         |
| Leseabstand:                     | 7,5 mil Code: 18 cm ab Gerätenase, 8,9 cm breit<br>13 mil Code: 31,8 cm ab Gerätenase, 20,3 cm breit                                                                                                                                                                                                     |                           |                         |
| Auflösung:                       | 3 mil bei 10 cm Abstand                                                                                                                                                                                                                                                                                  |                           |                         |
| Lesewinkel (quer):               | ±65°                                                                                                                                                                                                                                                                                                     |                           |                         |
| Lesewinkel (längs):              | ±65°                                                                                                                                                                                                                                                                                                     |                           |                         |
| Horizontale Geschwindigkeit:     | 51 cm pro Sekunde                                                                                                                                                                                                                                                                                        |                           |                         |
| Min. Reflexionsdifferenz:        | 20%                                                                                                                                                                                                                                                                                                      |                           |                         |
| Scanrate:                        | Bis zu 270 Scans pro Sekunde                                                                                                                                                                                                                                                                             |                           |                         |
| Dekodierrate:                    | 270 Dekodierungen pro Sekunde                                                                                                                                                                                                                                                                            |                           |                         |
| Elektrische/Eigenschaften        |                                                                                                                                                                                                                                                                                                          |                           |                         |
| Länge:                           | 11,2 cm                                                                                                                                                                                                                                                                                                  |                           |                         |
| Höhe:                            | 15,0 cm                                                                                                                                                                                                                                                                                                  |                           |                         |
| Breite:                          | 7,9 cm                                                                                                                                                                                                                                                                                                   |                           |                         |
| Gewicht:                         | 158,8 g                                                                                                                                                                                                                                                                                                  |                           |                         |
| Gehäuse:                         | nach UL 94V0                                                                                                                                                                                                                                                                                             |                           |                         |
| Stromversorgung:                 | 3800GX5E: 4,5 - 12 V Gleichstrom am Scanner<br>3800GX4E: 4,5 - 5,5 V Gleichstrom am Scanner                                                                                                                                                                                                              |                           |                         |
| Max. Stromaufnahme:              | Aufnahme<br>5 V<br>12 V                                                                                                                                                                                                                                                                                  | Scannen<br>235mA<br>145mA | Standby<br>86mA<br>65mA |
| Stromversorgung                  |                                                                                                                                                                                                                                                                                                          |                           |                         |
| Rauschunterdrückung:             | Maximal 100 mV Spitze zu Spitze, 10 bis 100 kHz                                                                                                                                                                                                                                                          |                           |                         |
| Umgebung                         |                                                                                                                                                                                                                                                                                                          |                           |                         |
| Betrieb:                         | 0°C bis +50°C                                                                                                                                                                                                                                                                                            |                           |                         |
| Lagerung:                        | -40°C bis +60°C                                                                                                                                                                                                                                                                                          |                           |                         |
| Luftfeuchtigkeit:                | 0 bis 95%, nicht-kondensierend                                                                                                                                                                                                                                                                           |                           |                         |
| Stoßfestigkeit:                  | Normal funktionsfähig nach 50-maligem Herabfallen aus 1,5 m Höhe auf Beton                                                                                                                                                                                                                               |                           |                         |
| Umgebungsbeleuchtung:            | 0 - 70.000 lux                                                                                                                                                                                                                                                                                           |                           |                         |
| ESD-Schutz:                      | Funktionsfähig nach 15-kV-Entladung                                                                                                                                                                                                                                                                      |                           |                         |
| Widersteht:                      | 5G Höchstwert bei Frequenzen von 22 bis 300 Hz                                                                                                                                                                                                                                                           |                           |                         |
| Zulassungen und Zertifizierung:  | FCC Klasse B, CE EMC Klasse B, CE-Niederspannungsrichtlinie, IEC60825-1 LED-Sicherheit: Klasse 1, UL, cUL-erfasst                                                                                                                                                                                        |                           |                         |
| MTBF (Mittlerer Ausfallabstand): | Ground Benign nach MIL-HDBK-217F über 100.000 Stunden                                                                                                                                                                                                                                                    |                           |                         |
| Symbolgien:                      | Codabar, Code 3/9 einschl. PARAF, Interleaved 2/5, Straight 2/5 Industrial, Matrix 2/5, Code 11, Code 93, Code 128, UPC, EAN/JAN, China Postal Code, RSS und ISBT 128 Verkettung(kostenpflichtige Lizenz benötigt)                                                                                       |                           |                         |
| Schnittstellen:                  | 3800GX5E: Alle gängigen PCs und Terminals über Keyboard Wedge, Tastaturweiche/Direktverbindung, USB, TTL Level RS-232, IBM Einzelhandels-Terminals 46XX und Einzelhandel-USB<br>3800GX4E: Alle gängigen PCs und Terminals über Keyboard Wedge, Tastaturweiche/Direktverbindung, USB und TTL Level RS-232 |                           |                         |
| Garantie:                        | Fünf Jahre Herstellergarantie                                                                                                                                                                                                                                                                            |                           |                         |

Durchschnittliche Leistungswerte\*

| Schmale Breite                                                  | Leseabstand |
|-----------------------------------------------------------------|-------------|
| 5.0 mil                                                         | 5 - 20 cm   |
| 7.5 mil                                                         | 4 - 30 cm   |
| 10 mil (80% UPC)                                                | 3 - 38 cm   |
| 13 mil (100% UPC)                                               | 1 - 46 cm   |
| 15 mil                                                          | 3 - 56 cm   |
| 20 mil                                                          | 3 - 66 cm   |
| *können nach Barcodequalität und Umgebungsbedingungen variieren |             |

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## 3800gPDF

### PDF Decoding Linear Imager

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 barcodes – 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 barcode 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 barcodes
  - \* Improved ability to read damaged or poorly printed barcodes.
- **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 Specifications

| Performance              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|
| Illumination:            | 617 NM Visible Amber LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |
| Receiving Device:        | 3648 element linear imager                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |
| Reading Distance:        | From 0.3 in. (0.8 cm) to 8.0 in. (20.3 cm) on medium density bar codes                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |
| Reading Width:           | 5 mil code: 3.0 in. (7.6 cm) from nose, 3.0 in. (7.6 cm) wide<br>10 mil code: 5.0 in. (12.7 cm) from nose, 4.0 in. (10.2 cm) wide                                                                                                                                                                                                                                                                                                                                                         |          |      |
| Resolution:              | 3 mil. at 1.75 in. (4.4 cm) distance                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |
| Skew Angle:              | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |
| Pitch Angle:             | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |
| Horizontal Velocity:     | 10 in. (25.4 cm) per second on medium density code at nominal focus                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |
| Minimum Symbol Contrast: | 37%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |
| Scan Rate:               | Up to 270 scans per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |      |
| Decode Rate:             | 270 decodes per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |      |
| Mechanical/Electrical    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
| Length:                  | 4.4 in. (11.2 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |
| Height:                  | 5.9 in. (15.0 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |
| Width:                   | 3.1 in. (7.9 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |      |
| Weight:                  | 5.6 oz. (158.8 g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |      |
| Housing:                 | UL 94V0 grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |
| Power Requirements:      | 3800GPDF04E: 4.5 - 5.5Vdc at scanner                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |
| Current Draw (Maximum):  | Input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Scanning | Idle |
|                          | 5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 450mA    | 86mA |
| Power Supply             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
| Noise Rejection:         | Maximum 100mV peak to peak, 10 to 100 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |
| Environmental            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
| Operating Temperature:   | +32°F to +122°F (0°C to +50°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |
| Storage Temperature:     | -40°F to 140°F (-40°C to +60°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
| Humidity:                | 0 to 95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |
| Mechanical Shock:        | Operational after 50 drops from 5 ft. (1.5 m) to concrete                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |
| Ambient Illumination:    | 0 - 70,000 lux                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |      |
| ESD Protection:          | Functional after 15kV discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      |
| Vibration:               | Withstands 5G peak from 22 to 300 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |
| Agency:                  | <b>International:</b> CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED. <b>USA:</b> FCC Part 15 subpart B Class B. UL listed to 60950-1. <b>Canada:</b> ICES-003 Class B. cUL listed to CSA C22.2 No. 60950-1-03. <b>Europe:</b> CE 2004/108/EC EMC Directive to EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. <b>GS Mark:</b> GS marked for I.T.E. safety. <b>Mexico:</b> NOM-NYCE. <b>Korea:</b> MIC Class A. <b>Australia/NZ:</b> C-Tick mark. |          |      |
| MTBF:                    | per MIL-HDBK-217F Ground Benign exceeds 100,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      |
| Symbologies:             | Codabar, Code 3 of 9 including PARAF, Interleaved 2 of 5, Straight 2 of 5 Industrial, Matrix 2 of 5, Code 11, Code 93, Code 128, UPC, EAN/JAN, China Postal Code, GS1 DataBar, PDF417, MicroPDF417. 2005 Sunrise/GTIN compliant, and ISBT 128 Concatenation (requires a paid license).                                                                                                                                                                                                    |          |      |
| Interfaces:              | 3800GPDFX4E: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, and TTL level RS-232                                                                                                                                                                                                                                                                                                                                                             |          |      |
| Warranty:                | Five year factory warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |      |

Typical Performance\*

| Narrow Width      | Depth of Field                |
|-------------------|-------------------------------|
| 5.0 mil (Code 39) | 0.8 - 5.5 in. (2.0 - 14.0 cm) |
| 10 mil (Code 39)  | 0.2 - 8.5 in. (0.6 - 21.6 cm) |
| 13 mil (100% UPC) | 0.6 - 8.2 in. (1.5 - 20.8 cm) |
| 6.7 mil (PDF417)  | 1.5 - 2.6 in. (3.3 - 6.6 cm)  |
| 20 mil (PDF417)   | 1.8 - 2.7 in. (4.4 - 6.9 cm)  |

\*may be impacted by barcode quality and environmental conditions

## Automation and Control Solutions

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## 3800gHD

### High Density Linear Imager

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 barcodes, providing ideal versatility for mixed barcode applications.

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

Powered by Adaptus® Imaging Technology 5.0, the 3800gHD provides fast, intuitive barcode reading across a range of high and low density codes and easily reads damaged or poorly printed barcodes – 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.



powered by  
**Adaptus®**  
imaging technology 5.0

### Features

- **Optimized for High Density Reading:** Superior reading performance on 3 mil linear barcodes, plus the versatility to read other common linear symbologies.
- **Intuitive Aiming Line:** Thin, crisp aiming line for ease-of-use in scanning barcode 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 barcodes.
- **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 Specifications

| Performance              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|
| Illumination:            | 617 NM Visible Amber LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |              |
| Receiving Device:        | 3648 element linear imager                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |              |
| Reading Distance:        | From 0.3 in. (0.8 cm) to 8.0 in. (20.3 cm) on medium density bar codes                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |              |
| Reading Width:           | 5 mil code: 3.0 in. (7.6 cm) from nose, 3.0 in. (7.6 cm) wide<br>10 mil code: 5.0 in. (12.7 cm) from nose, 4.0 in. (10.2 cm) wide                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Resolution:              | 3 mil. at 1.75 in. (4.4 cm) distance                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Skew Angle:              | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Pitch Angle:             | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Horizontal Velocity:     | 10 in. (25.4 cm) per second on medium density code at nominal focus                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Minimum Symbol Contrast: | 37%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Scan Rate:               | Up to 270 scans per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |              |
| Decode Rate:             | 270 decodes per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |              |
| Mechanical/Electrical    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Length:                  | 4.4 in. (11.2 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Height:                  | 5.9 in. (15.0 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Width:                   | 3.1 in. (7.9 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |              |
| Weight:                  | 5.6 oz. (158.8 g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Housing:                 | UL 94V0 grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |              |
| Power Requirements:      | 3800GHD24E: 4.5 - 5.5Vdc at scanner                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Current Draw (Maximum):  | Input<br>5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Scanning<br>450mA | Idle<br>86mA |
| Power Supply             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Noise Rejection:         | Maximum 100mV peak to peak, 10 to 100 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |              |
| Environmental            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Operating Temperature:   | +32°F to +122°F (0°C to +50°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |              |
| Storage Temperature:     | -40°F to 140°F (-40°C to +60°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Humidity:                | 0 to 95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |              |
| Mechanical Shock:        | Operational after 50 drops from 5 ft. (1.5 m) to concrete                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |              |
| Ambient Illumination:    | 0 - 70,000 lux                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |              |
| ESD Protection:          | Functional after 15kV discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Vibration:               | Withstands 5G peak from 22 to 300 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Agency:                  | <b>International:</b> CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED. <b>USA:</b> FCC Part 15 subpart B Class B. UL listed to 60950-1. <b>Canada:</b> ICES-003 Class B. cUL listed to CSA C22.2 No. 60950-1-03. <b>Europe:</b> CE 2004/108/EC EMC Directive to EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. <b>GS Mark:</b> GS marked for I.T.E. safety. <b>Mexico:</b> NOM-NYCE. <b>Korea:</b> MIC Class A. <b>Australia/NZ:</b> C-Tick mark. |                   |              |
| MTBF:                    | per MIL-HDBK-217F Ground Benign exceeds 100,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |              |
| Symbologies:             | Codabar, Code 3 of 9 including PARAF, Interleaved 2 of 5, Straight 2 of 5 Industrial, Matrix 2 of 5, Code 11, Code 93, Code 128, UPC, EAN/JAN, China Postal Code, GS1 DataBar, PDF417, PDF417 Truncated, Composite, MicroPDF417. 2005 Sunrise/GTIN compliant, and ISBT 128 Concatenation (requires a paid license).                                                                                                                                                                       |                   |              |
| Interfaces:              | 3800GHD24E: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, IBM, 46XX retail terminals, and Retail USB.                                                                                                                                                                                                                                                                                                                     |                   |              |
| Warranty:                | Five year factory warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |              |

## Typical Performance\*

| Narrow Width      | Depth of Field                |
|-------------------|-------------------------------|
| 3.0 mil           | 1.2 - 3.3 in. (3.0 - 8.4 cm)  |
| 5.0 mil (Code 39) | 0.8 - 5.5 in. (2.0 - 14.0 cm) |
| 10 mil (Code 39)  | 0.2 - 8.5 in. (0.6 - 21.6 cm) |
| 13 mil (100% UPC) | 0.6 - 8.2 in. (1.5 - 20.8 cm) |
| 6.7 mil (PDF417)  | 1.5 - 2.6 in. (3.3 - 6.6 cm)  |
| 20 mil (PDF417)   | 2.0 - 2.9 in. (5.1 - 7.4 cm)  |

\*may be impacted by barcode quality and environmental conditions

## Automation and Control Solutions

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## 3800gHD

### High Density Linear Imager

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 barcodes, providing ideal versatility for mixed barcode applications.

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

Powered by Adaptus® Imaging Technology 5.0, the 3800gHD provides fast, intuitive barcode reading across a range of high and low density codes and easily reads damaged or poorly printed barcodes – 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.



powered by  
**Adaptus®**  
imaging technology 5.0

### Features

- **Optimized for High Density Reading:** Superior reading performance on 3 mil linear barcodes, plus the versatility to read other common linear symbologies.
- **Intuitive Aiming Line:** Thin, crisp aiming line for ease-of-use in scanning barcode 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 barcodes.
- **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 Specifications

| Performance              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------|
| Illumination:            | 617 NM Visible Amber LED                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |              |
| Receiving Device:        | 3648 element linear imager                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |              |
| Reading Distance:        | From 0.3 in. (0.8 cm) to 8.0 in. (20.3 cm) on medium density bar codes                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |              |
| Reading Width:           | 5 mil code: 3.0 in. (7.6 cm) from nose, 3.0 in. (7.6 cm) wide<br>10 mil code: 5.0 in. (12.7 cm) from nose, 4.0 in. (10.2 cm) wide                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Resolution:              | 3 mil. at 1.75 in. (4.4 cm) distance                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Skew Angle:              | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Pitch Angle:             | ±65°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Horizontal Velocity:     | 10 in. (25.4 cm) per second on medium density code at nominal focus                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Minimum Symbol Contrast: | 37%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Scan Rate:               | Up to 270 scans per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                   |              |
| Decode Rate:             | 270 decodes per second                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                   |              |
| Mechanical/Electrical    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Length:                  | 4.4 in. (11.2 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Height:                  | 5.9 in. (15.0 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Width:                   | 3.1 in. (7.9 cm)                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   |              |
| Weight:                  | 5.6 oz. (158.8 g)                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                   |              |
| Housing:                 | UL 94V0 grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |              |
| Power Requirements:      | 3800GHD24E: 4.5 - 5.5Vdc at scanner                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                   |              |
| Current Draw (Maximum):  | Input<br>5 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Scanning<br>450mA | Idle<br>86mA |
| Power Supply             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Noise Rejection:         | Maximum 100mV peak to peak, 10 to 100 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |              |
| Environmental            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Operating Temperature:   | +32°F to +122°F (0°C to +50°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |              |
| Storage Temperature:     | -40°F to 140°F (-40°C to +60°C)                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Humidity:                | 0 to 95%, non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                   |              |
| Mechanical Shock:        | Operational after 50 drops from 5 ft. (1.5 m) to concrete                                                                                                                                                                                                                                                                                                                                                                                                                                 |                   |              |
| Ambient Illumination:    | 0 - 70,000 lux                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |              |
| ESD Protection:          | Functional after 15kV discharge                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                   |              |
| Vibration:               | Withstands 5G peak from 22 to 300 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |              |
| Agency:                  | <b>International:</b> CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED. <b>USA:</b> FCC Part 15 subpart B Class B. UL listed to 60950-1. <b>Canada:</b> ICES-003 Class B. cUL listed to CSA C22.2 No. 60950-1-03. <b>Europe:</b> CE 2004/108/EC EMC Directive to EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. <b>GS Mark:</b> GS marked for I.T.E. safety. <b>Mexico:</b> NOM-NYCE. <b>Korea:</b> MIC Class A. <b>Australia/NZ:</b> C-Tick mark. |                   |              |
| MTBF:                    | per MIL-HDBK-217F Ground Benign exceeds 100,000 hours                                                                                                                                                                                                                                                                                                                                                                                                                                     |                   |              |
| Symbologies:             | Codabar, Code 3 of 9 including PARAF, Interleaved 2 of 5, Straight 2 of 5 Industrial, Matrix 2 of 5, Code 11, Code 93, Code 128, UPC, EAN/JAN, China Postal Code, GS1 DataBar, PDF417, PDF417 Truncated, Composite, MicroPDF417. 2005 Sunrise/GTIN compliant, and ISBT 128 Concatenation (requires a paid license).                                                                                                                                                                       |                   |              |
| Interfaces:              | 3800GHD24E: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, IBM, 46XX retail terminals, and Retail USB.                                                                                                                                                                                                                                                                                                                     |                   |              |
| Warranty:                | Five year factory warranty.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                   |              |

## Typical Performance\*

| Narrow Width      | Depth of Field                |
|-------------------|-------------------------------|
| 3.0 mil           | 1.2 - 3.3 in. (3.0 - 8.4 cm)  |
| 5.0 mil (Code 39) | 0.8 - 5.5 in. (2.0 - 14.0 cm) |
| 10 mil (Code 39)  | 0.2 - 8.5 in. (0.6 - 21.6 cm) |
| 13 mil (100% UPC) | 0.6 - 8.2 in. (1.5 - 20.8 cm) |
| 6.7 mil (PDF417)  | 1.5 - 2.6 in. (3.3 - 6.6 cm)  |
| 20 mil (PDF417)   | 2.0 - 2.9 in. (5.1 - 7.4 cm)  |

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