3800g

General Purpose Linear Imager

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 handheld linear reader.

powered by
Adaptus®
imaging technology 5.0

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:** Built to last with 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 Specifications

Performance

Illumination:	630 NM Visible Red LED
Receiving Device:	3648 element linear imager
Reading Distance:	From .5 in. (1.3 cm) to 18 in. (46 cm) on medium density bar codes
Reading Width:	7.5 mil code: 7 in. (18 cm) from nose, 3.5 in. (8.9 cm) wide 13 mil code: 12.5 in. (31.8 cm) from nose, 8.0 in. (20.3 cm) wide
Resolution:	3 mil. at 4 in. (10 cm) distance
Skew Angle:	$\pm65°$
Pitch Angle:	$\pm65°$
Horizontal Velocity:	20 in. (51 cm) per second
Minimum Symbol Contrast:	20%
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:	3800GX5E: 4.5 - 12Vdc at scanner 3800GX4E: 4.5 - 5.5Vdc at scanner
Current Draw (Maximum):	Input Scanning Idle 5 V 235mA 86mA 12 V 145mA 65mA

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:	**International:** CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED. **USA:** FCC Part 15 subpart B Class B. UL listed to 60950-1. **Canada:** ICES-003 Class B. cUL listed to CSA C22.2 No. 60950-1-03. **Europe:** CE 2004/108/EC EMC Directive to EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. **GS Mark:** GS marked for I.T.E. safety. **Mexico:** NOM-NYCE. **Korea:** MIC Class A. **Taiwan:** BSMI. **Australia/NZ:** 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. 2005 Sunrise/GTIN compliant, and ISBT 128 Concatenation (requires a paid license).
Interfaces:	3800GX5E: All popular PCs and terminals via keyboard wedge, keyboard replacement/direct connect, USB, TTL level RS-232, IBM, 46XX retail terminals, and Retail USB. 3800GX4E: 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	2.0 - 8 in. (5 - 20 cm)
7.5 mil	1.5 - 12 in. (4 - 30 cm)
10 mil (80% UPC)	1.0 - 15 in. (3 - 38 cm)
13 mil (100% UPC)	.5 - 18 in. (1 - 46 cm)
15 mil	1.0 - 22 in. (3 - 56)
20 mil	1.0 - 26 in. (3 - 66 cm)

*may be impacted by bar code quality and environmental conditions

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 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:	$\pm65^{\circ}$
Pitch Angle:	$\pm65^{\circ}$
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 Scanning Idle 5 V 450mA 86mA

Power Supply

Noise Rejection:	Maximum 100mV peak to peak, 10 to 100 kHz

Environmental

Operating Temperature:	$+32^{\circ}F$ to $+122^{\circ}F$ ($0^{\circ}C$ to $+50^{\circ}C$)
Storage Temperature:	$-40^{\circ}F$ to $140^{\circ}F$ ($-40^{\circ}C$ to $+60^{\circ}C$)
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:	**International:** CB scheme to IEC60950-1 & IEC60825-1 Class 1 LED. **USA:** FCC Part 15 subpart B Class B. UL listed to 60950-1. **Canada:** ICES-003 Class B. cUL listed to CSA C22.2 No. 60950-1-03. **Europe:** CE 2004/108/EC EMC Directive to EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3. 2006/95/EC Low Voltage Directive. **GS Mark:** GS marked for I.T.E. safety. **Mexico:** NOM-NYCE. **Korea:** MIC Class A. **Australia/NZ:** 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