

## 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.



### 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

<b>Illumination:</b>	630 NM Visible Red LED
<b>Receiving Device:</b>	3648 element linear imager
<b>Reading Distance:</b>	From .5 in. (1.3 cm) to 18 in. (46 cm) on medium density bar codes
<b>Reading Width:</b>	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
<b>Resolution:</b>	3 mil. at 4 in. (10 cm) distance
<b>Skew Angle:</b>	±65°
<b>Pitch Angle:</b>	±65°
<b>Horizontal Velocity:</b>	20 in. (51 cm) per second
<b>Minimum Symbol Contrast:</b>	20%
<b>Scan Rate:</b>	Up to 270 scans per second
<b>Decode Rate:</b>	270 decodes per second

## Mechanical/Electrical

<b>Length:</b>	4.4 in. (11.2 cm)									
<b>Height:</b>	5.9 in. (15.0 cm)									
<b>Width:</b>	3.1 in. (7.9 cm)									
<b>Weight:</b>	5.6 oz. (158.8 g)									
<b>Housing:</b>	UL 94V0 grade									
<b>Power Requirements:</b>	3800GX5E: 4.5 - 12Vdc at scanner 3800GX4E: 4.5 - 5.5Vdc at scanner									
<b>Current Draw (Maximum):</b>	<table border="1"> <thead> <tr> <th>Input</th> <th>Scanning</th> <th>Idle</th> </tr> </thead> <tbody> <tr> <td>5 V</td> <td>235mA</td> <td>86mA</td> </tr> <tr> <td>12 V</td> <td>145mA</td> <td>65mA</td> </tr> </tbody> </table>	Input	Scanning	Idle	5 V	235mA	86mA	12 V	145mA	65mA
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5 V	235mA	86mA								
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## Power Supply

<b>Noise Rejection:</b>	Maximum 100mV peak to peak, 10 to 100 kHz
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## Environmental

<b>Operating Temperature:</b>	+32°F to +122°F (0°C to +50°C)
<b>Storage Temperature:</b>	-40°F to 140°F (-40°C to +60°C)
<b>Humidity:</b>	0 to 95%, non-condensing
<b>Mechanical Shock:</b>	Operational after 50 drops from 5 ft. (1.5 m) to concrete
<b>Ambient Illumination:</b>	0 - 70,000 lux
<b>ESD Protection:</b>	Functional after 15kV discharge
<b>Vibration:</b>	Withstands 5G peak from 22 to 300 Hz
<b>Agency:</b>	<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 GSA 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>Taiwan:</b> BSMI. <b>Australia/NZ:</b> C-Tick mark.
<b>MTBF:</b>	per MIL-HDBK-217F Ground Benign exceeds 100,000 hours
<b>Symbologies:</b>	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).
<b>Interfaces:</b>	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
<b>Warranty:</b>	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 cm)
20 mil	1.0 - 26 in. (3 - 66 cm)

\*may be impacted by bar code quality and environmental conditions

## Automation and Control Solutions

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