# 3800 g

## General Purpose Linear Imager



powered by
**Adaptus**®
imaging technology 5.0

## Overview

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 g 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.

## Premium 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.

## Industry Standard Features

- **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 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.

**Hand**Held® PRODUCTS

# 3800ⓖ 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<br>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:** | ±65° |
| **Pitch  Angle:** | ±65° |
| **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<br>3800GX4E:  4.5 - 5.5Vdc at scanner |
| **Current Draw (Maximum):** | Input    Scanning    Idle<br>5 V        235mA      86mA<br>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:** | FCC Class B, CE EMC Class B, CE Low Voltage Directive, IEC60825-1 LED Safety: Class 1, UL, cUL listed |
| **MTBF:** | per MIL-HDBK-217F Ground Benign exceeds 85,000 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 |
| **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*

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