

# 3800g

## General Purpose Handheld Linear Imager



### 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.

## The 3800g Advantage

### 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.

### 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, RSS 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.

## 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

## 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

## Mechanical/Electrical

### Dimensions

<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)

**Housing:** UL 94V0 grade

**Power Requirements:** 3800GX5E: 4.5 - 12Vdc at scanner  
3800GX4E: 4.5 - 5.5Vdc at scanner

<b>Current Draw (Maximum):</b>	<u>Input</u>	<u>Scanning</u>	<u>Idle</u>
	5 V	235mA	86mA
	12 V	145mA	65mA

## Power Supply

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

## Environmental

### Temperature

<b>Operating:</b>	+32°F to +122°F (0°C to +50°C)
<b>Storage:</b>	-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, RSS. 2005 Sunrise/GTIN compliant.

**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

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