

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.

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:	±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

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

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):	<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

Operating:	+32°F to +122°F (0°C to +50°C)
Storage:	-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, 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

Warranty: Five year factory warranty.

Worldwide Offices

Offices Serving North America

Skaneateles Falls, NY
Tel: +1 315 685 8945
or, in North America: +1 800 582 4263
napresales@handheld.com
Charlotte, NC
Tel: +1 704 998 3998
or, in North America: +1 800 582 4263
napresales@handheld.com

Offices Serving Europe, Middle East, and Africa

Europe
Tel: +31 (0) 40 29 01 600
eupresales@handheld.com
United Kingdom
Tel: +44 (0) 1 925 240055
eupresales@handheld.com
Italy
Tel: +39 (0) 2 67 100752
eupresales@handheld.com

France
Tel: +33 (0) 1 41 158220
eupresales@handheld.com
Germany
Tel: +49 (0) 7 477 151377
eupresales@handheld.com
Spain
Tel: +34 93 228 78 68
eupresales@handheld.com

Offices Serving Asia and the Pacific Rim

Hong Kong
Tel: +852 2511 3050
appresales@handheld.com
Japan
Tel: +813 5770 6312
appresales@handheld.com
Shanghai
Tel: +86 21 6361 3818
appresales@handheld.com

Offices Serving Latin America

Naples, Florida
Tel: +1 239 263 7600
lapresales@handheld.com
São Paulo
Tel: +55 11 2178 0500
lapresales@handheld.com
Rio De Janeiro
Tel: +55 21 2178 0500
lapresales@handheld.com
Mexico
Tel: +52 55 5203 2100
lapresales@handheld.com

Web Site Address www.handheld.com

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