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3800g

General Purpose 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.

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.

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 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 3800GX4E: 4.5 - 5.5Vdc at scanner									
Current Draw (Maximum):	<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
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:	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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