

# 3800gPDF

## PDF Decoding Linear Imager

The 3800gPDF is built specifically to serve applications that require high-performance linear barcode scanning as well as an economical solution for occasional PDF417 barcode reading.

Based on the proven 3800g platform, the 3800gPDF features an ideal balance of performance, durability, ergonomics, and connectivity that make it a reliable and user-friendly solution for a broad range of light industrial environments including retail, manufacturing, government, healthcare, and distribution.

Powered by Adaptus® Imaging Technology 5.0, the 3800gPDF delivers high-performance linear barcode scanning across a range of barcodes – including those that are damaged or poorly printed. Combined with intuitive PDF417 reading functionality, the 3800gPDF offers versatile, yet economical scanning capability.

Compact, ergonomic design and class-leading durability, coupled with aggressive reading performance, makes the new 3800gPDF the ideal choice for customers who appreciate a reliable, versatile, and economical solution to meet their scanning needs.



## Features

- **Swipe Action PDF417 Decoding:** Fast, accurate, and economical PDF417 reading.
- **Bright, Crisp, and Focused Aiming Line:** Easy to aim and scan codes, regardless of lighting conditions or close barcode proximities.
- **Performance and Versatility Powered by Adaptus Imaging Technology 5.0**
  - \* 270 scans per second and high tolerance-to-hand motion ensure fast scanning performance.
  - \* Working range from .3 inches to 8 inches on medium density barcodes
  - \* Improved ability to read damaged or poorly printed barcodes.
- **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 and backed by a 5-year warranty.
- **Plug and Play Connectivity:** All popular interfaces are on board. Includes Visual Xpress™ software for ease of integration.
- **Future Proof Symbology Support:** GTIN compliant, GS1 DataBar capable.
- **Intuitive User Feedback:** Fully programmable options for application-specific “good read” LED and beeper settings.

# 3800gPDF Specifications

## Performance

<b>Illumination:</b>	617 NM Visible Amber LED
<b>Receiving Device:</b>	3648 element linear imager
<b>Reading Distance:</b>	From 0.3 in. (0.8 cm) to 8.0 in. (20.3 cm) on medium density bar codes
<b>Reading Width:</b>	5 mil code: 3.0 in. (7.6 cm) from nose, 3.0 in. (7.6 cm) wide 10 mil code: 5.0 in. (12.7 cm) from nose, 4.0 in. (10.2 cm) wide
<b>Resolution:</b>	3 mil. at 1.75 in. (4.4 cm) distance
<b>Skew Angle:</b>	±65°
<b>Pitch Angle:</b>	±65°
<b>Horizontal Velocity:</b>	10 in. (51 cm) per second on medium density code at nominal focus
<b>Minimum Symbol Contrast:</b>	37%
<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>	3800GPDF04E: 4.5 - 5.5Vdc at scanner						
<b>Current Draw (Maximum):</b>	<table border="1"> <tr> <td><u>Input</u></td> <td><u>Scanning</u></td> <td><u>Idle</u></td> </tr> <tr> <td>5 V</td> <td>450mA</td> <td>86mA</td> </tr> </table>	<u>Input</u>	<u>Scanning</u>	<u>Idle</u>	5 V	450mA	86mA
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5 V	450mA	86mA					

## 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 CSA 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>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, PDF417, microPDF. 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 (Code 39; 3" wide)	2.6 - 4.3 in. (6.6 - 10.9 cm)
10 mil (Code 39; 4 in. wide)	4.0 - 7.2 in. (10.2 - 18.3 cm)
13 mil (100% UPC)	0.6 - 8.2 in. (1.5 - 20.8 cm)
6.7 mil (PDF417)	1.5 - 2.6 in. (3.3 - 6.6 cm)
20 mil (PDF417)	1.8 - 2.7 in. (4.4 - 6.9 cm)

\*may be impacted by barcode quality and environmental conditions

## Automation and Control Solutions

Honeywell  
Imaging and Mobility  
700 Visions Drive  
PO Box 208  
Skaneateles Falls, NY 13153-0208  
www.honeywell.com/aidc

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