

5X80 Series Decoded Miniature Image Scan Engines

5080 LED Aimer 5180 High Visibility LED Aimer 5380 Laser Aimer

The 5X80 family combines the latest CMOS industrial grade image sensor technology, illumination, and optics to create a compact, lightweight optical module capable of reading linear, stacked linear, and matrix bar codes like never before. In addition, these images can read and decode OCR fonts and capture digital images.

This fifth generation of image engines build on the Honeywell legacy of reading the most comprehensive list of bar code symbologies and combine with value add image capture and OCR reading capability. Honeywell has a long history of supplying OEM devices to the bar code reading industry. Our commitment to applying image-based processing innovation to traditional bar code applications enables us to help ease your transition to image-based readers. In addition, our partnership friendly culture and sensitivity to life cycle management helps you manage your engine integration and evolution to ensure your devices always have the latest and best technology available.

Designed for ease-of-integration and superior durability, the 5X80 decoded engines are ideal as drop-in modules to most data capture applications. The small size and low current draw of the devices allow the engines to be integrated with minimal mechanical modifications. Incorporating sensor technology with no moving parts, the 5X80 Series engines are built to withstand 2,500G of shock. The decoder module supports standard serial and USB interfaces that, in most cases, does not require hardware modifications to existing platforms.

These full omni-directional readers are available in configurations to meet your integration needs. Several focal distances, mounting options, aiming ergonomics, and decoder license configurations are available. These options enable integrators to design in the benefits of image capture into a wide variety of devices, including bar code scanners, hand held mobile computers, medical instrumentation, diagnostic equipment, gaming terminals, vending machines, and robotics.





Features

- Powered by Adaptus® Imaging Technology: Adaptus
 Imaging Technology delivers superior value through
 versatility and performance and embodies Honeywell
 continuous commitment to leading technology, superior
 solutions, and helping business customers solve their data
 capture problems.
- Point-and-Shoot Scanning Ease of Use: Available in high visibility LED and laser aimer versions, these omnidirectional area imagers make reading linear and full matrix codes quick and easy with industry-leading motion tolerance, low light sensitivity, and broad depth of reading distances.
- Durable: Because they incorporate industrial grade image sensor technology and are designed with no moving parts, these imagers can withstand rugged applications and sub zero freezing temperatures.

- Decoding: Built on a 30-year old tradition of decoding expertise, these decoded out engines will read all major linear, stacked linear, and matrix bar codes, as well as machine-readable OCR fonts, quickly and easily.
- Fifth Generation Image Processing: Based on a history
 of applying image-based technology to reading bar codes,
 these engines bring a legacy of industry-leading image
 processing performance. In addition to reading bar codes
 well, these products also capture crisp digital images for use
 in your data collection system.

5X80 Series Specifications

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Focal Point SR: 7 inches (17.8cm) from lens plate

SF: 4.5 inches (11.4cm) from lens plate

Working Range:

SR*	8.3 mil Linear (<u>.020cm)</u>	10 mil PDF417 (<u>.025cm)</u>	13 mil UPC (.033cm)	15 mil Data Matrix (.038cm)	15 mil QR (<u>.038cm)</u>	35 mil MaxiCode (.089cm)
Near	3.5 in. (8.9cm)	3.1 in. (7.9cm)	2.1 in. (5.3cm)	2.3 in. (5.8cm)	3.1 in. (7.9cm)	2.0 in. (5.1cm)
Far	7.6 in. (19.3cm)	9 in. (22.9cm)	13.2 in. (33.5cm)	10.2 in. (25.9cm)	8.8 in. (22.4cm)	13.0 in. (33cm)
SF*	6.6 mil PDF417 (.017cm)	7.5 mil Linear (.019cm)	8.3 mil Data Matrix (.021cm)	8.3 mil QR (.021cm)	10 mil Linear (<u>.025cm)</u>	13 mil UPC (.033cm)
Near	2.8 in. (7.1cm)	2.5 in. (6.4cm)	3.4 in. (8.6cm)	3.4 in. (8.6cm)	2.2 in. (5.6cm)	2.0 in. (5.1cm)
Far	6 in. (15.2cm)	6.5 in. (16.5cm)	5.7 in. (14.5cm)	5.4 in. (13.7cm)	7.6 in. (19.3cm)	8.9 in. (22.6cm)

*Data characterized at 23°C and 0 lux ambient light

Image Sensor: 752 x 480 CMOS sensor

Motion Tolerance: 4 inches per second **Rotational Sensitivity:**

Viewing Angle: ±40°

Ambient Light: Total darkness to 100,000 lux (full sunlight)

Illumination LEDs: 626nm ±30nm

Aiming: 526nm <u>+</u>30nm 650nm <u>+</u>10nm

Symbologies

PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite 2 Dimensional: Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock Linear:

Postal: Postnet (US), Planet Code, BPO 4 State, Canadian Post, Japanese Post, KIX (Netherlands) Post

OCR Fonts: OCR-A and OCR-B

Mechanical Specifications

		5080 <u>Image Module</u>	5180 <u>Image Module</u>	5380 Image Module	5080 Bracketed Device	5180, 5380 Bracketed Device	Decoder <u>Board</u>
	Depth:	.584 in. (14.83mm)	.564 in. (16.74mm)	.7 in. (1.78cm)	.982 in. (24.94mm)	1.11 in. (28.19mm)	1.51 in. (38.35mm)
	Width:	.83 in. (21.08mm)	1.1 in. (27.94mm)	1.1 in. (2.79cm)	1.51 in. (38.35mm)	1.51 in. (38.35mm)	.86 in. (22.8mm)
	Height:	.47 in. (11.94mm)	.45 in. (11.43mm)	.475 in. (1.21cm)	.765 in. (19.43mm)	.765 in. (19.43mm)	.357 in. (9.07mm)
	Weight:	1 ounce (28.3a)	1 ounce (28.3a)	1 ounce (28.3a)	1 ounce (28.3a)	1 ounce (28.3a)	

Electrical Specifications

Operational Input Voltage: Imager: 3.3 VDC ± 5% (23° C)

3.0 VDC to 5.5 VDC (23° C)

Current Draw: Imager: Maximum Operating Current – 100 mA, Standby Current – 100 μA

> **Average Current (Interlaced Mode) Standby Current**

5X80: 600 mA

Environmental Specifications

-30° to +50°C (-22° to 122° F) Operating Temperature: Storage Temperature: -40° to +70° C (-40° to 158° F)

Humidity: up to 95% RH, non-condensing at 122°F (50°C)

Shock: 18 shocks of 2,500 G

Automation and Control Solutions

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