Honeywell

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

Performance							
Focal Point	SR: SF:	7 inches (17.8cm) 4.5 inches (11.4cm		e			Lo mW MAX OUTPUT: 650nM EN60825 1: 1994 + A11 + A2 Complies with 21 CFR 1040.10 and 10 except for deviations pursuant to Las Notice No. 50, dated July 26, 2001.
Working Range:			, ,				
SR*	8.3 mil Linear <u>(.020cm)</u>	10 mil PDF417 <u>(.025cm)</u>		nil UPC 1 33cm)	15 mil Data Matrix (.038cm)	15 mil QR <u>(.038cm)</u>	35 mil MaxiCode <u>(.089cm)</u>
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	6.6 mil PDF417 <u>(.017cm)</u>	7.5 mil Linear <u>(.019cm)</u>		Data Matrix <u>21cm)</u>	8.3 mil QR <u>(.021cm)</u>	10 mil Linear <u>(.025cm)</u>	13 mil UPC <u>(.033cm)</u>
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 characteriz	zed at 23ºC and 0 lu	ux ambient light		
mage Sensor:	752 x 480) CMOS sensor					
Notion Tolerance:	4 inches	per second					
Rotational Sensitivity	y: 360°						
Viewing Angle:	<u>+</u> 40°						
Ambient Light:	Total dark	ness to 100,000 lux	(full sunlight)				
Illumination LEDs:	626nm <u>+</u> 3	30nm					
		500mm . 00mm					
Aiming:	LEDs: Laser:	526nm <u>+</u> 30nm 650nm <u>+</u> 10nm					
-							
-	Laser:	650nm <u>+</u> 10nm	iCode, Data Ma	trix, QR Code, Azte	ec, Aztec Mesa, Code 4	9, UCC Composite	
Symbologies 2 Dimensional: Linear:	Laser: PDF417, Code 39,	650nm <u>+</u> 10nm MicroPDF417, Max Code 128, Codaba	r, UPC, EAN, Int	terleaved 2 of 5, Re	educed Space Symbolo	gy, Code 93, Codablock	
2 Dimensional: Linear: Postal:	Laser: PDF417, Code 39, Postnet (I	650nm ±10nm MicroPDF417, Max Code 128, Codaba JS), Planet Code, B	r, UPC, EAN, Int	terleaved 2 of 5, Re		gy, Code 93, Codablock	
2 Dimensional: Linear: Postal: OCR Fonts:	Laser: PDF417, Code 39, Postnet (I OCR-A a	650nm <u>+</u> 10nm MicroPDF417, Max Code 128, Codaba	r, UPC, EAN, Int	terleaved 2 of 5, Re	educed Space Symbolo	gy, Code 93, Codablock	
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2 Dimensional: 2 Dimensional: Linear: Postal: OCR Fonts:	Laser: PDF417, Code 39, Postnet (I OCR-A a	650nm ±10nm MicroPDF417, Max Code 128, Codabau US), Planet Code, B nd OCR-B 80	r, UPC, EAN, Int	terleaved 2 of 5, Re	educed Space Symbolo	gy, Code 93, Codablock	Decoder <u>Board</u>
ymbologies 2 Dimensional: Linear: Postal: OCR Fonts:	Laser: PDF417, Code 39, Postnet (I OCR-A a ccifications	650nm ±10nm MicroPDF417, Max Code 128, Codabar US), Planet Code, B nd OCR-B 80 Module Ima	r, UPC, EAN, Inf PO 4 State, Car 5180	terleaved 2 of 5, Re nadian Post, Japan 5380	educed Space Symbolo ese Post, KIX (Netherla 5080	gy, Code 93, Codablock inds) Post 5180, 5380	Board
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Symbologies 2 Dimensional: Linear: Postal: OCR Fonts: Iechanical Spe Depth:	Laser: PDF417, Code 39, Postnet (I OCR-A a ccifications 50 Image I .584 in. (1	650nm ±10nm MicroPDF417, Max Code 128, Codabau JS), Planet Code, B nd OCR-B 80 Module Imar 4.83mm) .564 ir .08mm) 1.1 in.	r, UPC, EAN, Ini PO 4 State, Car 5180 <u>ge Module</u> h. (16.74mm)	terleaved 2 of 5, Re nadian Post, Japan 5380 Image Module .7 in. (1.78cm)	educed Space Symbolo ese Post, KIX (Netherla 5080 <u>Bracketed Device</u> .982 in. (24.94mm)	gy, Code 93, Codablock Inds) Post 5180, 5380 <u>Bracketed Device</u> 1.11 in. (28.19mm)	Board 1.51 in. (38.35mn .86 in. (22.8mm)
Cymbologies 2 Dimensional: Linear: Postal: OCR Fonts: Iechanical Spe Depth: Width:	Laser: PDF417, Code 39, Postnet (I OCR-A a CCIFICATIONS 50 Image I .584 in. (1 .83 in. (21	650nm ±10nm MicroPDF417, Max Code 128, Codabau JS), Planet Code, B nd OCR-B 80 Module Imar 4.83mm) .564 ir .08mm) 1.1 in. .94mm) .45 in.	r, UPC, EAN, Ini PO 4 State, Cau 5180 <u>ge Module</u> n. (16.74mm) (27.94mm)	terleaved 2 of 5, Re nadian Post, Japan 5380 <u>Image Module</u> .7 in. (1.78cm) 1.1 in. (2.79cm)	educed Space Symbolo ese Post, KIX (Netherla 5080 <u>Bracketed Device</u> .982 in. (24.94mm) 1.51 in. (38.35mm)	gy, Code 93, Codablock Inds) Post 5180, 5380 Bracketed Device 1.11 in. (28.19mm) 1.51 in. (38.35mm)	<u>Board</u> 1.51 in. (38.35mr .86 in. (22.8mm)
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Symbologies 2 Dimensional: Linear: Postal: OCR Fonts: Mechanical Species Depth: Width: Height: Weight: Electrical Species Operational Input Vol Current Draw: Environmental Species Operating Temperature	Laser: PDF417, Code 39, Postnet (I OCR-A a cifications 50 Image I .584 in. (1 .584 in. (1 .47 in. (11 1 ounce (2 fications Image 5X80: Specification system 5X80: Specification re: -30° t	650nm ±10nm MicroPDF417, Max Code 128, Codabai JS), Planet Code, B nd OCR-B 80 Module Imai 4.83mm) .564 ir .08mm) 1.1 in. .94mm) .45 in. 28.3g) 1 ound er: 3. .5 m A 5 m A	r, UPC, EAN, Int PO 4 State, Car 5180 ge Module n. (16.74mm) (27.94mm) (11.43mm) (27.94mm) (11.43mm) (27.94mm) (11.43mm) (27.94mm) (11.43mm) (27.94mm) (27.9	terleaved 2 of 5, Renadian Post, Japan 5380 Image Module .7 in. (1.78cm) 1.1 in. (2.79cm) .475 in. (1.21cm) 1 ounce (28.3g) 3° C) DC (23° C) ing Current – 100 n	standby Current –	gy, Code 93, Codablock Inds) Post 5180, 5380 Bracketed Device 1.11 in. (28.19mm) 1.51 in. (38.35mm) .765 in. (19.43mm) 1 ounce (28.3g) 100 µA t Peak	<u>Board</u> 1.51 in. (38.35mr .86 in. (22.8mm)
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Automation and Control Solutions

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