

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-y ear 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 Specifi cations

Performance						LASER LIGHT. DO NOT STARE INTO CLASS 2 LASER PRODUCT 1.0 mW MAX OUTPUT: 650nM
Focal Point	SR: SF:	7 inches (17.8cm) fro 4.5 inches (11.4cm)				Compiles with 21 CPR 1000.10 and 11 except for deviations pursuant to Les Motion No. 90, dated July 20, 2001.
Working Range:						
SR*	8.3 mil Linear (.020cm)	10 mil PDF417 (.025cm)	13 mil UPC <u>(.033cm)</u>	15 mil Data Matrix <u>(.038cm)</u>	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 mil PDF417 (.017cm)_	7.5 mil Linear <u>(.019cm)</u>	8.3 mil Data Matrix (.021cm)_	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 characterized at 23	°C and 0 lux ambient light		
mage Sensor:	752 x 480 CMOS sensor					
Notion Tolerance:	4 inches	per second				
Rotational Sensitivity	: 360°					
/iewing Angle:	<u>+</u> 40°					
Ambient Light:	Total darkness to 100,000 lux (full sunlight)					
llumination LEDs:	626nm -	<u>-</u> 30nm				
Aiming:	LEDs: Laser:	526nm <u>+</u> 30nm 650nm <u>+</u> 10nm				
ymbologies						
2 Dimensional:	PDF417, MicroPDF417, MaxiCode, Data Matrix, QR Code, Aztec, Aztec Mesa, Code 49, UCC Composite					
Linear:	Code 39, Code 128, Codabar, UPC, EAN, Interleaved 2 of 5, Reduced Space Symbology, Code 93, Codablock					
Postal:	Postnet (US), Planet Code, BPO 4 State, Canadian Post, Japanese Post, KIX (Netherlands) Post					
OCR Fonts:	OCR-A and OCR-B					
1echanical Spe	cifi cations					
		080 <u>Module</u> <u>Imaç</u>		380 5080 <u>Module</u> <u>Bracketed Devi</u>	5180, 538 <u>ce</u> <u>Bracketed De</u>	
Depth:	.584 in. (1	14.83mm) .564 in. (*	6.74mm) .7 in. (1.78cr	n) .982 in. (24.94mm)	1.11 in. (28.19mm)	1.51 in. (38.35mm)
Width:	.83 in. (21	1.08mm) 1.1 in. (2	7.94mm) 1.1 in. (2.79	cm) 1.51 in. (38.35mm)	1.51 in. (38.35mm)	.86 in. (22.8mm)
Height:	.47 in. (11	1.94mm) .45 in. (1	1.43mm) .475 in. (1.2°	1cm) .765 in. (19.43mm)	.765 in. (19.43mm)	.357 in. (9.07mm)
Weight:	1 ounce	(28.3g) 1 ounce	(28.3g) 1 ounce (28	3.3g) 1 ounce (28.3g)	1 ounce (28.3g)	
lectrical Specif	i cations					
Operational Input Vol	ltage: Imager: 5X80		3 VDC + <u>5</u> % (23 °C) 3 VDC to 5.5 VDC (23 °C))		
Current Draw:	lmager	: М	aximum Operating Curren	t – 100 mA, Standby Current -	- 100 μΑ	
		Av	erage Current (Interlaced	Mode) Standby Current	Peak	
	5X80): 51	0 mA	120 uA	600 mA	
nvironmental S	Specifi catio	ns				
Operating Temperatu	ure: -30° to +50°C (-22 ° to 122 ° F)					
Storage Temperature	: -40°	to +70 °C (-40 ° to 15	8 ° F)			
Humidity:	up t	o 95% RH, non-conden	sing at 122 °F (50 °C)			
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18 shocks of 2,500 G

Shock:

