









**IS4910** 

Metrologic's IS4910 is an easy-to-integrate miniature area imaging engine for mobile computers, hand-held scanners, medical/ diagnostic instruments, lottery terminals and kiosks scanning 1D and 2D bar codes.

Your search for a powerful and versatile miniature 2D imaging engine is over.

Metrologic's IS4910 captures crisp, high resolution images with low power consumption. Because of its small industry-compatible form factor, the IS4910 integrates easily into existing or new applications.

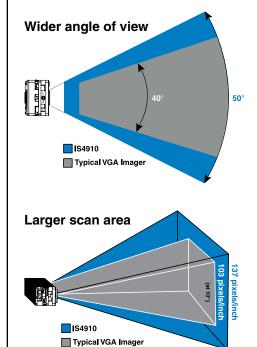
In a single flash, IS4910 captures a high-resolution image regardless of lighting conditions thanks to its patented First-Flash™ technology and 1.2 mega-pixel CMOS sensor. These features provide integrated devices with aggressive scanning performance and increased battery life.

Regardless of bar code orientation, the images captured by the IS4910 can be used to decode all standard multidimensional symbologies, including 1D codes as dense as 4 mil (0.102 mm), 2D codes as dense as 10 mil (0.254 mm), Matrix codes) and OCR fonts.

Captured images can also be used for archiving and analysis. The image size is scalable to fit specific application requirements.

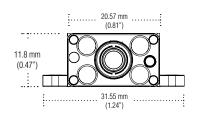
An integrated "aiming" LED makes scanning bar codes easy. A power-save mode lowers power consumption to a minimum when not scanning. There are three mounting options to choose from. A complimentary software development kit is also available for development of custom applications.

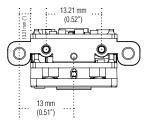
www.metrologic.com/IS4910

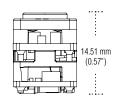


Features	Benefits	
Low power consumption	Ideal for battery-powered devices	
High resolution CMOS area imager	Large field of view and scanning area for easy scanning	
• First <i>Flash</i> ™ technology	Increases productivity - captures high quality images on first LED flash virtually every time, regardless of lighting conditions	
Miniature and lightweight	Easily integrates into small devices	
Integrated aiming	Targets objects for quick scanning	









OPERATIONAL		
Image Sensor	CMOS, 1.2 mega pixel	
Illumination	650 nm LED	
Aiming	615 nm LED	
Output	Industrial standard output	
MECHANICAL		
Height	11.88 mm (0.47")	
Depth	14.51 mm (0.57")	
Width (no mounting tabs)	20.57 mm (0.81")	
Weight	< 6 g (0.2 oz)	
Engine Termination	22-pos connector (Molex 55560-0227)	
Mounting Options	IS4910-00: Mounting holes for self-taping screws only IS4910-01: Mounting holes for self-taping screws and tabs with through holes IS4910-02: Mounting holes for self-taping screws and tabs with threaded inserts in through holes	
ELECTRICAL		

Input Voltage at Engine	$3.3 \pm 0.3 \text{ VDC}$	
Input Voltage for LEDs	3.0 - 5.5 VDC	
mput voitago to: 2220	0.0 0.0 120	
Imager Current	90 mA, typical	
Peak Current	< 450 mA at 3.3 V for less than 20 µS	
Tour our one	( 100 Hir α 0.0 γ 101 1000 than 20 μο	
Typical Operating Current	Snapshot mode: 90 mA; Video mode: 250 mA	
Standby Current	0.5 mA, typical	
ENVIRONMENTAL		

ENVIRONMENTAL	
Operating Temperature	0°C - 40°C (32°F - 104°F)
Storage Temperature	-20°C - 70°C (-4°F - 158°F)
Humidity	0% - 95% relative humidity, non-condensing
Ambient Light immunity	110,000 lux (10,200 foot-candles)
Drop Protection Designed to withstand repeated 1.5 m (5') drops	
Vibration Protection	7 G over 10 - 500 Hz



Omniplanar, a division of Metrologic, offers world-class decoding software for IS4910 integrated with popular microprocessor platforms.

www.omniplanar.com



Metrologic Instruments, Inc. | Worldwide Headquarters 90 Coles Road | Blackwood, NJ 08012-4683 | info@metrologic.com

ISO 9001:2000

info@sg.metrologic.com

Telephone 856-228-8100 | Fax 856-228-6673 | www.metrologic.com Asian Headquarters Tel. 65.6842.7155 European Headquarters Tel. 49.89.89019.0

info@eu.metrologic.com

The Americas Headquarters Tel. 1.800.ID.METRO info@us.metrologic.com

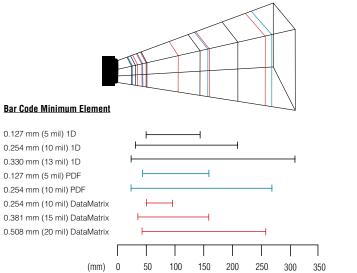
SCAN PERFORMANCE		
Depth of Field*	25 mm – 310 mm, (1 - 12.2") for 0.33 mm (13 mil) bar codes	
Field of View*	118 mm (w) x 86 mm (h) (4.7" w x 3.4" h) @ 127 mm (5"); 237 mm (w) x 172 mm (h) (9.3" w x 6.8" h) @ 254 mm (10") from face	
Minimum Element Width, 1D*	0.102 mm (4 mil)	
Minimum Element Width, 2D*	0.254 mm (10 mil), matrix code	
Resolution	1280 x 960 pixels	
Print Contrast	20% minimum reflectance difference	
View Angles	50° (horizontal), 37.5° (vertical)	

100 mm (3.94") from the camera face Snapshot/video mode, illumination, image size,

Scan Area\*

**Programmable Parameters** 

**Focal Point** 



exposure and gain

\*Measured using Metrologic decoding hardware and Omniplanar software. Actual values may vary depending on operating conditions and integrated hardware and software.

(4")

(6")

(8")

(10")

(12")

(14")

(2")

(0")



Specifications subject to change without notice. Printed U.S.A., Copyright October 2007 Metrologic, all rights reserved.

