

## 4410 HD

### Handheld 2D Image Readers



#### Features

*Supports All Popular 2D Symbologies - 4410 supports all popular matrix and stacked linear symbologies: MaxiCode, Data Matrix, QR, and PDF417. Additional symbologies will be added as emerging codes are approved by AIM.*

*Hand Held Products Video Imaging Technology - Hand Held Products has over 20 years experience in developing video-based instruments for medical and industrial inspection is brought to 2D data collection systems.*

*Handheld Reader - Opens up new 2D bar code and image capture possibilities in portable handheld and fixed scanning applications.*

*Omni-Directional Scanning - The video technology basis for the 4410 means it can offer omni-directional scanning, even on linear codes, greatly simplifying operator training and increasing productivity.*

*Aiming - The 4410 has a bright, intuitive aiming line.*

*Autodiscriminates Between Supported Symbologies and Fonts - Reads all major linear, stacked linear, and matrix bar codes, as well as machine readable fonts used in Optical Character Recognition (OCR).*

*2D Print Quality Assessment (PQA) - An easy and inexpensive approach to providing test results useful for 2D bar code symbol process control, and improvement of the overall 2D data acquisition system.*

The Hand Held Products 4410 High Density Image Reader is a handheld input device for reading and decoding two dimensional (2D) symbologies. The 4410 offers integrated support for Matrix, stacked linear, and conventional linear bar codes, as well as a single line of OCR-A and OCR-B fonts. Multi-line OCR applications can also be read. The 4410 is designed for reading high density matrix symbols. The 4410 has the power to capture and download images to a PC for applications, such as signature capture, PC-based decoding, and image lift requirements.

Lightweight, balanced, and easy to use, the 4410 can be used in repetitive, high volume hand scanning operations in even the most demanding environments. The 4410 can be configured for keyboard wedge, Non Decoded Laser Output (Code 128 emulation), TTL, or True RS-232. The 4410 connects to all popular PCs and portable data terminals. The Non Decoded Laser Output mode can be used with external wedge decoders and portable terminals or other devices without 2D decoding capability. The 4410 can be integrated with all types of customer systems.

The 4410 features integrated processing for a one-piece scanning solution - no additional boxes or electronics needed. The reader provides omni-directional and auto-discrimination decoding for symbologies, such as MaxiCode, PDF417, QR, Data Matrix, Aztec code, RSS code, composite codes, postal codes, Code 39, Code 93, Interleaved 2 of 5, Codabar, Code 128, UPC, and EAN. Additional symbologies will be added based on market demand.

One high density scanner is available: 4410HD. The 4410HD, with a focal point of 2 inches, is recommended when the matrix symbols are less than 10 mil.

# 4410 HD Specifications

## Performance

<b>HD Focal Point:</b>	2 inches from nose			
<b>HD Working Range:</b> (typical)	<b>6 pt OCR</b> <b>20 cpi</b>	<b>6.6 mil QR</b> <b>(.017 cm)</b>	<b>6.6 mil Data Matrix</b> <b>(.017 cm)</b>	<b>4 mil Linear</b> <b>(.01 cm)</b>
<b>Near</b>	2 in. (5.1 cm)	1.7 in. (4.3 cm)	1.7 in. (4.3 cm)	1.6 in. (4.6 cm)
<b>Far</b>	3.5 in. (8.9 cm)	2.45 in. (6.2 cm)	2.45 in. (6.2 cm)	2.7 in. (6.9 cm)
<b>Rotational Sensitivity:</b>	360°			
<b>Viewing Angle:</b>	±45°			
<b>Ambient Light:</b>	Total darkness to 100,000 lux (full sunlight)			
<b>Aiming:</b>	660nm LEDs provide bright aiming line			

## Symbologies

<b>2 Dimensional:</b>	MaxiCode, PDF417, MicroPDF417, Aztec, Aztec Mesa, Data Matrix, QR Code, Code 49, UCC Composite, Snowflake*, Vericode*, Dataglyphs*
<b>Linear:</b>	Code 39, Code 128, Codabar, UPC, EAN, I 2 of 5, RSS, BC 412*, Code 93, Codablock * available to licensed users only
<b>Postal:</b>	Postnet (US), British Post, Canadian Post, Japanese Post, KIX (Netherlands) Post, Planet Code
<b>OCR Fonts:</b>	OCR-A, OCR-B
<b>Interfaces:</b>	RS-232, Wedge, and HHLC (Code 128 Emulation)
<b>Programmable Options:</b>	Baud, Parity, Data Formatting, Code Options

## Mechanical/Electrical

### Dimensions

<b>Length:</b>	6.1 in. (15.4 cm)
<b>Height:</b>	5.6 in. (14.2 cm)
<b>Width:</b>	2.5 in. (6.4 cm)
<b>Weight w/o cord:</b>	7 oz. (198 g) or less
<b>Power Requirements:</b>	4 to 9 volts
<b>Current Draw:</b>	Lower Power Mode - average @ 5 VDC-40mA Medium Power Mode - average @ 5 VDC-125mA High Power Mode - average @ 5 VDC-175mA
<b>Standby Current:</b>	< 200µA @ 5V

## Environmental

### Temperature

<b>Operating:</b>	-0°C to 50°C
<b>Storage:</b>	-40°C to +70°C
<b>Humidity:</b>	95% RH, non condensing at 50°C
<b>Shock:</b>	10 drops 5 ft. to concrete @ room temperature
<b>ESD:</b>	Functional after 15KV discharge
<b>Agency:</b>	FCC Class B, CE
<b>Seal Rating:</b>	IP52



Complies with EMC 89/336/EEC and LVD 73/23/EEC

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