

IMAGETEAM™ 4410 HD/HD10 *Hand Held 2D Image Readers*



Features

Supports All Popular 2D Symbologies - IT4410 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.

HHP Video Imaging Technology - HHP's over 20 years experience in developing video-based instruments for medical and industrial inspection is brought to 2D data collection systems.

Hand Held Reader - Opens up new 2D bar code and image capture possibilities in portable hand held and fixed scanning applications.

Omni-Directional Scanning - The video technology basis for the IT4410 means it can offer omni-directional scanning, even on linear codes, greatly simplifying operator training and increasing productivity.

Aiming - The IT4410 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 HHP IMAGETEAM™ (IT) 4410 High Density Image Reader is a hand held input device for reading and decoding two dimensional (2D) symbologies. The IT4410 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 IT4410 is designed for reading high density matrix symbols. The IT4410 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 IT4410 can be used in repetitive, high volume hand scanning operations in even the most demanding environments. The IT4410 can be configured for keyboard wedge, Non Decoded Laser Output (Code 128 emulation), TTL, or True RS-232. The IT4410 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 IT4410 can be integrated with all types of customer systems.

The IT4410 features integrated processing for a one-piece scanning solution - no additional boxes or electronics needed. The reader provides omnidirectional 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.

Because the IT4410 is a fixed focus device, four product models with different focal points are available. Two high density scanners are available: IT4410HD and IT4410HD10. The IT4410HD, with a focal point of 2 inches, is recommended when the matrix symbols are less than 10 mil. The IT4410HD10 is recommended for applications when the matrix codes are greater than 10 mil. This version, with a focal point of 3 inches, maximizes the depth of field on 10 mil matrix codes, which directly correlates to greater functionality by the end user. The long range (LR/LX) models of the IT4410 are highlighted in a separate data sheet.

Upgrade your image.

IMAGETEAM™ 4410 HD/HD10 Specifications

Performance

HD Focal Point: 2 inches from nose
HD10 Focal Point: 3 inches from nose

HD Working Range: (typical)	6 pt OCR	6.6 mil QR	6.6 mil Data Matrix	4 mil Linear
	20 cpi	(.017 cm)	(.017 cm)	(.01 cm)
	Near	2 in. (5.1 cm)	1.7 in. (4.3 cm)	1.7 in. (4.3 cm)
Far	3.5 in. (8.9 cm)	2.45 in. (6.2 cm)	2.45 in. (6.2 cm)	2.7 in. (6.9 cm)

HD10 Working Range: (typical)	10 mil QR	10 mil Data Matrix	5 mil Linear
	(.025 cm)	(.025 cm)	(.013 cm)
	Near	2.0 in. (5.1 cm)	2.2 in. (5.6 cm)
Far	4.0 in. (10.2 cm)	3.8 in. (9.6 cm)	3.75 in. (9.5 cm)

Rotational Sensitivity: 360°
Viewing Angle: ±45°
Ambient Light: Total darkness to 100,000 lux (full sunlight)
Aiming: 660nm LEDs provide bright aiming line

Symbologies

2 Dimensional: MaxiCode, PDF417, MicroPDF417, Aztec, Aztec Mesa, Data Matrix, QR Code, Code 49, UCC Composite, Snowflake*, Vericode*, Dataglyphs*

Linear: Code 39, Code 128, Codabar, UPC, EAN, I 2 of 5, RSS, BC 412*, Code 93, Codablock
* available to licensed users only

Postal: Postnet (US), BPO4 State, Canadian 4 State, Japanese Post, KIX (Dutch Post), Planet Code

OCR Fonts: OCR-A, OCR-B

Interfaces: RS232, Wedge, and HHLC (Code 128 Emulation)

Programmable Options: Baud, Parity, Data Formatting, Code Options

Mechanical/Electrical

Dimensions

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

Environmental

Temperature
Operating: -0°C to 50°C
Storage: -40°C to +70°C

Humidity: 95% RH, non condensing at 50°C

Shock: 10 drops 5 ft. to concrete @ room temperature

ESD: Functional after 15KV discharge

Agency: FCC Class B, CE

Seal Rating: IP52



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

Worldwide Offices

Offices Serving North America
Skaneateles Falls, NY
Tel: +1 315 685 8945
or, in North America: +1 800 782 4263
sales@hhp.com
Charlotte, NC
Tel: +1 704 998 3998
or, in North America: +1 800 782 4263
sales@hhp.com

Offices Serving Europe, Middle East, and Africa
Europe
Tel: +31 (0) 40 29 01 600
euro_sales@hhp.com
United Kingdom
Tel: +44 (0) 1 925 240055
euro_sales@hhp.com
Ireland
Tel: +353 (0) 502 44007
euro_sales@hhp.com

France
Tel: +33 (0) 1 461 04111
euro_sales@hhp.com
Germany
Tel: +49 (0) 7 477 151377
euro_sales@hhp.com
Spain
Tel: +34 93 228 76 68
euro_sales@hhp.com

Offices Serving Asia and the Pacific Rim
Hong Kong
Tel: +852 2511 3050/2511 3132
asia_sales@hhp.com
Japan
Tel: +813 52127392
asia_sales@hhp.com

Offices Serving Latin America
Naples, Florida
Tel: +1 239 263 7600
la-sales@hhp.com
São Paulo
Tel: +55 11 5016 3454
la-sales@hhp.com
Rio De Janiero
Tel: +55 21 2494 7060
la-sales@hhp.com

Web Site Address www.hhp.com

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