

# IMAGETEAM™ 4410LR

## Hand Held or Fixed Mount 2D Image Reader



### Description

The Welch Allyn IMAGETEAM™ (IT) 4410 Image Reader can be configured as either a hand held or fixed mount device that reads 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 has the power to capture and download images to a PC for applications, such as signature capture, PC-based decoding, and image lift requirements.

The IT4410 Reader can be used in packaging, printed circuit board manufacturing, electronic component manufacturing, and clinical/diagnostic applications that include test tube, retail, and reagent package labels.

The IT4410 can be configured for keyboard wedge, Non Decoded Output (Code 128 emulation), TTL RS-232, or True RS-232. The IT4410 connects to all popular PCs and portable data terminals. The Non Decoded Output mode can be used with external wedge decoders and portable terminals or other devices without 2D decoding capability.

### Features

#### 2D Image Reader

#### Supports All Popular 2D Symbologies

#### Fixed Position Reader

#### Omni-Directional Scanning

#### Aiming

#### Autodiscriminates Between Supported Symbologies and Fonts

### Benefits

- Hand held or fixed mount image reader for reading and decoding 2D symbologies and capturing images.
- Fixed mount IT4410 supports all popular matrix and stacked linear symbologies: Maxicode, Aztec, Aztec Mesa, Data Matrix, PDF417, QR, and Micro PDF.
- Opens up new 2D bar code and image capture possibilities for fixed scanning applications.
- CMOS-based video technology and image processing gives the IT4410 full omni-directional scanning, even on linear codes, greatly simplifying operator training and increasing productivity.
- The IT4410 has a bright, intuitive, aiming line.
- Reads all major linear, stacked linear, and matrix bar codes, as well as machine readable fonts used in Optical Character Recognition (OCR).

The IT4410 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, PDF 417, 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, three product models with different focal points are available. The IT4410LR, designed for low and medium density codes, has a focal point of 5 inches from the nose. It is ideal for general 2D applications (postal, retail, and asset tracking). The high density (HD) models of the IT4410 are highlighted in a separate data sheet.

# Product Literature

## Specifications (4410LR)

### Performance

LR Focal Point: 5 inches from nose

LR Working Range:	12 pt OCR-A 12 cpi	5 mil Linear (.013 cm)	13 mil UPC (.033 cm)	15 mil Data Matrix (.038 cm)	6.6 mil PDF (.017 cm)	10 mil PDF (.025 cm)
Near	1.9 in. (4.8 cm)	3 in. (7.6 cm)	1.9 in. (4.8 cm)	2.0 in. (5.1 cm)	2.7 in. (6.9 cm)	2.4 in. (6.1 cm)
Far	8.7 in. (22.1 cm)	4.3 in. (10.9 cm)	9.4 in. (23.9 cm)	5.8 in. (14.7 cm)	5.2 in. (13.2 cm)	7.7 in. (19.6 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, Micro PDF, 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: 2.50 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 @ 5VDC-125mA  
High Power Mode - average @ 5VDC-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

### Worldwide Offices

#### Offices serving North America

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