IMAGETEAM™ 4710HD/HD10

Hand Held or Fixed Mount 2D Image Reader



Features Benefits

2D Image Reader

Hand held or fixed mount image reader for reading and decoding 2D symbologies, and capturing images.

Supports All Popular 2D Symbologies

Fixed mount IT4710 supports all popular matrix and stacked linear symbologies: Maxicode, Aztec, Aztec Mesa, Data Matrix, PDF417, QR, and Micro PDF.

Fixed Position Reader

Opens up new 2D bar code and image capture possibilities for fixed scanning applications.

Omni-Directional Scanning

The video technology offers omnidirectional scanning, even on linear codes, greatly simplifying operator

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training and increasing productivity.

• Using state-of-the-art binary optics, the IT4710 provides a view finder pattern as an ease-of-use feature for the user. This technique improves overall system throughput and provides necessary framing for image capture.

Description

The Welch Allyn IMAGETEAM™ (IT) 4710 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 IT4710 has the power to capture and download images to a PC for applications that include signature capture, PC-based decoding, and image lift requirements.

The IT4710 Reader can be used in packaging, printed circuit board manufacturing, electronic component manufacturing, and clinical/diagnostic applications, such as retail, test tube, and reagent package labels.

The IT4710 can be configured for keyboard wedge, HHLC (Code 128 emulation), TTL, or True RS-232. The IT4710 connects to all popular PCs and portable data terminals. HHLC mode can be used with external wedge decoders and portable terminals or other devices without 2D decoding capability.

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).

The IT4710 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 IT4710 is a fixed focus device, three product models with different focal points are available. Two high density scanners are available: IT4710HD and IT4710HD10. The IT4710HD, with a focal point of 2 inches, is recommended when the matrix symbols are less than 10 mil. The IT4710HD10 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) model of the IT4710 is highlighted in a separate data sheet.



Product Literature

Specifications (4710HD/HD10)

Performance

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

HD Working Range: 6 pt OCR 6.6 mil QR 6.6 mil Data Matrix 4 mil Linear (.017 cm) (.01 cm) 20 cpi (.017 cm) (typical) Near 2 in. (5.1 cm) 1.7 in. (4.3 cm) 1.7 in. (4.3 cm) 1.6 in. (4.6 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: 10 mil QR 10 mil Data Matrix 5 mil Linear (.025 cm) (.025 cm) (.013 cm) (typical) Near 2.0 in. (5.1 cm) 2.2 in. (5.6 cm) 2.75 in. (7.0 cm) 4.0 in. (10.2 cm) 3.8 in. (9.6 cm) 3.75 in. (9.5 cm) Far

Rotational Sensitivity: 360° Viewing Angle: $\pm 45^{\circ}$

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)

Programable

Options: Baud, Parity, Data Formatting, Code Options

Mechanical/Electrical

Dimensions

 Length:
 4.85 in. (12.3 cm)

 Height
 1.85 in. (4.7 cm)

 Width:
 2.50 in. (6.35 cm)

 Weight w/o cord:
 5.5 oz. (156 g) or less

Power Requirements: 4 to 9 volts

Current Draw: Low 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: $-0^{\circ}\text{C to }50^{\circ}\text{C}$ Storage: $-40^{\circ}\text{C to }+70^{\circ}\text{C}$

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

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