HT-100 / HT-150

Handheld
Image Readers

Auto-discriminate and Read 1-D and 2-D Codes

Overview

CiMatrix offers two leading-edge handheld image readers: the HT-150 and the HT-100. The HT-150 is a high-density handheld image reader developed specifically for item marking applications. It incorporates the latest digital image capture and processing technology and provides an additional "plug-n-shoot" feature available for any portable or fixed-station application. The HT-100 is the first advanced system to capture any industry 1-D and 2-D high contrast linear bar code label or symbol and follow it throughout the entire manufacturing and distribution process.

HT-100 and HT-150 Features/Benefits

- Both the HT-100 and the HT-150 support all application-specific 2-D symbologies, including DataMatrix™ (the most dense code), PDF417, MaxiCode™, and all popular linear codes

- The HT-100 and HT-150 both support DataMatrix EC-200 and lower level ECC symbols

- Tracks critical information from receiving and manufacturing through finished goods inventory, warehousing and distribution

- Provides high resolution and ultra-fast, robust auto-discriminating decoding

- Reads truncated and damaged codes due to superior omni-directional imaging capabilities

- Incorporates ergonomic and operational features never before integrated into a single point-and-shoot system

- Captures entire images to document and verifies damaged goods; the ultimate in traceability

- The HT-100 and HT-150 come with a choice of I/O interfaces, transmit speeds, soft parameters, and either battery powered or tethered connectivity

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HT-100 / HT-150 *Handheld ImageReaders*

Applications

The HT-100 and the HT-150 provide high resolution with ultra-fast, robust auto-discriminating decoding for the most demanding application environments.

Typical applications include:

- *Personal Identification*
- *Point-of-Sale Transactions*
- *Work-in-Process*
- *Captive Images for Damaged Goods*
- *Manufacturing*
- *Finished Goods Inventory*
- *Warehousing and Distribution*
- *Quality Control*

Model HT-100

RVSI
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HT100/150-1 01/98 5M

Specifications

HT100

Depth of Field for a 15 Mil Cell/X Dim.

Codes	Minimum	Maximum
DataMatrix	2.5" (6.3cm)	4.25" (10.8cm)
1-D Bar Codes	3.0" (7.6cm)	11.5" (29.2cm)
PDF417	2.5" (6.3cm)	11.5" (29.2cm)
MaxiCode	3.0" (12.6cm)	9.0" (22.9cm)

Field of View

Read Distance	Width	Height
3.0" (7.6cm)	1.7" (4.3cm)	1.2" (3.0cm)
8.5" (21.6cm)	5.0" (12.7cm)	3.5" (8.9cm)
11.5" (29.2cm)	7.0" (17.8cm)	5.0" (12.7cm)

HT150

Field of View

Optimal Focus	Width	Height
3.5" (8.9cm)	0.95" (2.4cm)	0.70" (1.8cm)

Minimum Cell Size/X Dim.

Codes	Cell Size/X Dim.
DataMatrix	0.004" (0.010cm)
1-D Bar Codes	0.002" (0.005cm)
PDF417	0.002" (0.005cm)
Supercode	0.002" (0.005cm)

Physical:
- **Length:** 6" (15.2cm)
- **Width:** 2.3" (max.) (5.8cm)
- **Depth:** 2.7" (max.) (6.9cm)
- **Weight:** 4.8oz. (137g)

Optical Parameters:
- **Pitch:** +/-30°
- **Skew:** +/-30°
- **Rotation:** 360°
- **Ambient Light:** Total darkness to full sunlight
- **Targeting Pattern:** Cross Hairs, Converging vertical bars

Symbologies
- **2-D:** DataMatrix, PDF417, Maxicode
- **1-D:** U.P.C., EAN, Code 128, Code 39, Code 93, Codabar, Interleaved 2 of 5

Image Transfer Resolution
- **Photograph:**
  Pixels:
  752 by 574 or
  376 by 287
- **Data Format:**
  8-bit grayscale or B/W
- **Signatures:**
  Pixels: 752 by 176 bits b/w

  Area: 2" (5.1cm) by 1/2" (1.3cm)

Environment
- **Operating Temperature:** 14°F to 122°F (10°C to +50°C)
- **Storage Temperature:** -22°F to 158°F (-30°C to +70°C)
- **Humidity:** 0 to 95%
- **Sealing:** Wind-blown dust and moisture per IEC 529 Class IP52
- **Vibration:** 5 to 60Hz at maximum 4G
- **Shock:** Withstands multiple drops to concrete from 6 ft.

Interface
- **Serial:** RS-232
- **Format:** ASCII or Bit Map
- **Baud Rate:** 600 to 115.2 Kbps
- **Average Power Consumption:** 190mA@5Volts
- **Peak Power Consumption over 10 msec:** 690mA@5Volts

Specifications subject to change without notice.