CiMAX® 7800/7850

Intelligent, High Performance Auto-Focus Scanners

High scan rates and large depth of field for high-speed sortation and tunnel systems

Overview

CiMatrix is a world leader in the creation of one and two-dimensional bar code readers and data collection systems for automatic identification in materials handling and manufacturing applications. The CiMAX® 7800 and 7850 are intelligent fixed position laser scanners for applications requiring high scan rates and large depth of field. The auto-focus capability makes these scanners ideal for sorting applications with packages of varying size. An on-board processor allows for local programmability and control. An optional Ethernet interface enables distributed, networked processing.

Features/Benefits

- Integrated scanner and decoder
- Auto-focus capability
- Up to 700 scans/second at 60° scan angle
- Large range and big depth of field
- "C" programmable
- Starnode™ or optional Ethernet interface
- Programmable digital I/O - 8 inputs/8 outputs
- CIX® (Code Information eXtraction) Technology
- Front (7800) or side view (7850) versions

- Ease of installation & troubleshooting
- Scan packages of varying heights
- High throughput & reading reliability
- Adapt to a variety of installations
- Minimize post-processing of data and need for external controllers
- Open architecture, connects to factory network
- Control flexibility
- Increased ability to read damaged, small or tilted labels
- Easier mounting in small places

RVSI
CiMatrix

CiMAX 7800/7850 *Intelligent, High Performance Auto-Focus Scanners*

Applications

The CiMAX 7800 and CiMAX 7850 offer excellent performance in demanding applications.

Typical applications include:
- *Materials handling systems*
- *High speed sortation*
- *Baggage and parcel handling*
- *Warehousing and order picking*
- *Intelligent conveyors*
- *Automated distribution*

RVSI CiMatrix CiMAX 7850

Specifications

Physical
- **Dimensions**   **7800** - 6.5"H x 12.75"L x 4.62"W (16.5 x 31.8 x 11.7 cm)
  7850 - 6.5'H x 14.38'L x 4.62"W (16.5 x 36.5 x 11.7 cm)
- **Weight**   13 lb. (5.9 kg)
- **Case Material**   Epoxy Powder Coated Aluminum, NEMA-12 dust tight and drip proof

Operational*
- **Light Source**   Class II Visible Laser Diode
- **Min. Resolution**   10 mil.
- **Max. Scan Rate**   700 scans/second
- **Min. Reading Distance** (20 mil. code)   20 inches
- **Max. Reading Distance** (20 mil. code)   70 inches
- **Max. Depth of Field** (20 mil. code)   50 inches
- **Scan Angle**   60 degrees
- **Readable Codes**   Code 39, 128, I 2 of 5, UPC, EAN & Codabar

*Actual operational specifications are optimized for each application during factory configuration

Interface/Control and Communications
- **Digital Inputs**   8, 30 VDC max.
- **Digital Outputs**   8, 30 VDC at 150 mA max.
- **Status LEDs**   6, monitor power, operations and communications
- **Communications**   1 Asynchronous serial host port - RS-422 or RS-232
  1 Asynchronous serial terminal port - RS-232
  1 LAN port with Starnode protocol - RS-485
  1 Ethernet port 10 base 2 connection (optional)
- **Set-up and Diagnostics**   Via Terminal port using CiMAX 1400 or PC
- **Process Control**   32-bit processor with 256K/1MB non-volatile RAM programmable in C language

Environment
- **Power**   12 VDC ± 5%, 2A, 5 VDC ± 5%, 1A
- **Operating Temperature**   32° to 122°F (0 to 50 ± C)
- **Humidity**   5% to 95% non-condensing
- **Protection**   NEMA 12 / IP65
- **Approvals**   CE

Options
- CIX® Technology
- Ethernet Interface
- Interface Box with provisions for isolation and connections to Opto-22 style solid state relays

Specifications subject to change without notice.