



**AL5010** is a high performance industrial laser scanner with cutting edge integrated control technology meeting the demands of existing and new automated facilities.

**Excellent Performance**

Using multiple lasers, the **AL5010** is the only product in its class to use simultaneous scanning technology with a two laser design to aggressively read low grade barcodes over the largest scan area.

With 1200 scans per second, the **AL5010** can support applications with very high transport speeds or small bar codes. With DRX bar code reconstruction technology, tilt angle can be increased for reading damaged or misplaced labels.

**Ease of Use**

The integrated touch button display technology quickly provides information on network connectivity, barcode reading quality, errors, trigger, and transmittal of information to the host. The five LED bargraph provides a quick and simple way to determine the reading performance without using external computers or terminals. Using the upload or download buttons, the settings of the scan head can be uploaded or downloaded with a simple touch of one button. This functionality allows for hot swappable scan head replacement or when quickly installing many scanners at the same time.

**Remote Access**

With an integrated web server and on-board TCP/IP, the IP address of the scanner can be accessed directly or remotely. The web pages are designed for simple and intuitive setup and monitoring of the system using a simple web browser. Advanced HTML5 is also present, allowing devices such as the iPhone or iPad to connect to the device directly using the same protocol as internet web pages. Screens have been optimized for the iPhone to allow for immediate access to the detailed performance of the system, dramatically reducing the time to troubleshoot any problems.

**Industrial Features**

With its rugged construction, IP65 protection class, 50° C max operating temperature and internal oscillating mirror, the **AL5010** is purpose built for the most demanding industrial environments. The basic and enhanced wiring boxes are integrated and protected, allow fast and simple installation without additional cables.



IDENTIFICATION

| HIGHLIGHTS  | APPLICATIONS  |
|---|---|
| <ul style="list-style-type: none"> <li>▪ Largest depth of field of any mid-range laser barcode reader on the market</li> <li>▪ PackTrack™ advanced tracking allows closer package spacing while maintaining package ID</li> <li>▪ Integrated web server with monitoring support for iPhone and iPads</li> <li>▪ Multi-language integrated GUI</li> <li>▪ Easy 'plug and play' replacement</li> <li>▪ Flexible connectivity with onboard EtherNet/IP, Ethernet TCP/IP</li> <li>▪ Reliability &gt; 50,000 hours MTBF at 25°C</li> <li>▪ No maintenance</li> </ul> | <ul style="list-style-type: none"> <li>▪ Automated warehousing</li> <li>▪ Picking systems</li> <li>▪ Pallet reading</li> <li>▪ Label print and apply verification</li> <li>▪ Automated shop floor</li> <li>▪ Item and part tracking</li> <li>▪ Manufacturing process control systems</li> </ul> |

## TECHNICAL DATA

|                          |  |
|--------------------------|--|
| Dimensions               | H 104 x W 130,8 x D 49,9 mm (4.10 x 5.15 x 1.96 in)  |
| Weight                   | Mounting Base: 0.25-0.34 kg [0.56-0.75 lb] +<br>Scan Head: 0.45 kg [1.0 lb]  |
| Case material            | Powder Coated cast aluminum, high impact plastic   |
| Operating temperature    | 0 to 50 °C (32 to 122 °F)  |
| Storage temperature      | -20 to 70 °C (-4 to 158 °F)  |
| Humidity                 | 90% non condensing   |
| Protection class         | IP65   |
| Scanning speed           | Up to 1200 scan/s software selectable  |
| Max. Resolution          | Up to 0.18 mm (7 mils)   |
| Max. Reading distance    | Up to 1200 mm (48 in) on 0.50 mm (20 mils) barcodes  |
| Max. Depth of field      | Up to 838.2 mm (33 in) on 0.50 mm (20 mils) barcodes   |
| Aperture angle           | 60 degrees   |
| Oscillating mirror range | +/- 20 degrees   |
| Readable codes           | All standard 1D symbologies  |
| Multilabel reading       | Up to 10 different symbologies during the same reading phase   |
| Communication interfaces | On board EtherNet/IP, Ethernet TCP/IP, Serial RS232/RS422, DeviceNet, Profibus (See Basic and Enhanced Interface Module Specification) |
| Device programming       | On board HTML/HTML5 Web Server interface   |
| Input / output signals   | 4 programmable I/O relays  |
| Power consumption        | <25 W  |
| Power supply             | 12-30 VDC  |
| Laser type               | Visible Laser Diode 650nm (Class 1)  |

## MODELS

| ORDER NO.  | DESCRIPTION   |
|------------|---|
| 1000067750 | AL5010: 1 LASER STANDARD DENSITY                        |
| 1000067751 | AL5010: 1 LASER HIGH DENSITY                            |
| 1000067752 | AL5010: 1 LASER HIGH DENSITY NEAR FOCUS                 |
| 1000067753 | AL5010: 2 LASER STANDARD DENSITY                        |
| 1000067754 | AL5010: 2 LASER HIGH DENSITY                            |
| 1000071183 | AL5010: 2 LASER HIGH DENSITY HI/STD DENSITY, NEAR FOCUS |

Contact a sales representative for oscillating mirror models

## ACCESSORIES

| ORDER NO.  | DESCRIPTION   |
|------------|---|
| 0111623001 | AL5010 MOUNTING BASE WITH INTEGRATED 1 METER CABLE                                    |
| 0111623002 | AL5010 MOUNTING BASE WITH INTEGRATED 3 METER CABLE                                    |
| 0111631001 | BASIC INTERFACE MODULE: TRIG, ETHERNET, (1) SERIAL PORT                               |
| 0111633001 | ENHANCED INTERFACE MODULE: TACH, TRIG, ETHERNET, (2) Serial Ports, (4) I/O            |
| 0111633002 | ENHANCED INTERFACE MODULE: TACH, TRIG, ETHERNET, (2) Serial Ports, (4) I/O, DEVICENET |
| 0111633003 | ENHANCED INTERFACE MODULE: TACH, TRIG, ETHERNET, (2) Serial Ports, (4) I/O, PROFIBUS  |

## IPHONE USER INTERFACE



Automated Warehousing



Pallet Scanning



Picking System

## READING DIAGRAM

