



AV7000 is the innovative linear camera setting a new paradigm in the T&L market.

AV7000 is characterized by superior optic performance, extended Auto-ID capabilities, advanced SW functions for image elaboration and data archiving, with excellent tools for operational analysis and process optimization.

Combining the benefits of a next generation CMOS sensor with 40% greater sensitivity and exclusive Datalogic patented technologies, the new AV7000 provides High Definition Images and software functionality that exceed customer expectations.

With a large Field of View (1400 mm -55 inch), the AV7000 is the perfect solution to collect High Definition images in a single picture on a large conveyor, instead of multiple partial pictures.

Thanks to Pulsed Lighting Systems – a Datalogic patented technology - a multi-sided AV7000 reading station now requires 50% less space than a non-pulsed lighting system for applications that demand a smaller footprint.

The AV7000 camera system is ideal for the most demanding applications in Parcel Sorting for Express Courier and Retail Distribution Company.



IDENTIFICATION

| | | | | | | | | |
|------------------------|--|--------------|-----------------------------------|----------------------------------|-------------------------------|----------------------------------|--------------------------------|------------------------|
| | | | | | | | | |
| Pulsed Lighting System | Next generation high performance CMOS sensor | Digital Zoom | Single shot high definition image | Next generation autofocus system | Stop-N -Go reading conditions | Next generation decoding library | Web browser configuration tool | LINUX Operating System |

HIGHLIGHTS

- Next generation CMOS sensor with 40 % greater sensitivity
- Single view high quality picture for large conveyors (1400 mm/55 inch)
- Patented Autofocus System offering extended DoF
- Patented PLS technology technology, reducing the footprint of the reading station by 50%
- Patented Digital Zoom technology assuring constant DPI resolution
- Next generation decode algorithm for poor quality codes
- Multiple format image saving from full definition to highly compressed JPG
- Browser based interface compatible with any kind of OS and HW platform including PC and Tablet
- Redundant architecture with no single point of failure
- Software tools for image saving and data intelligence
- Linux operative system

TARGET MARKETS AND APPLICATIONS

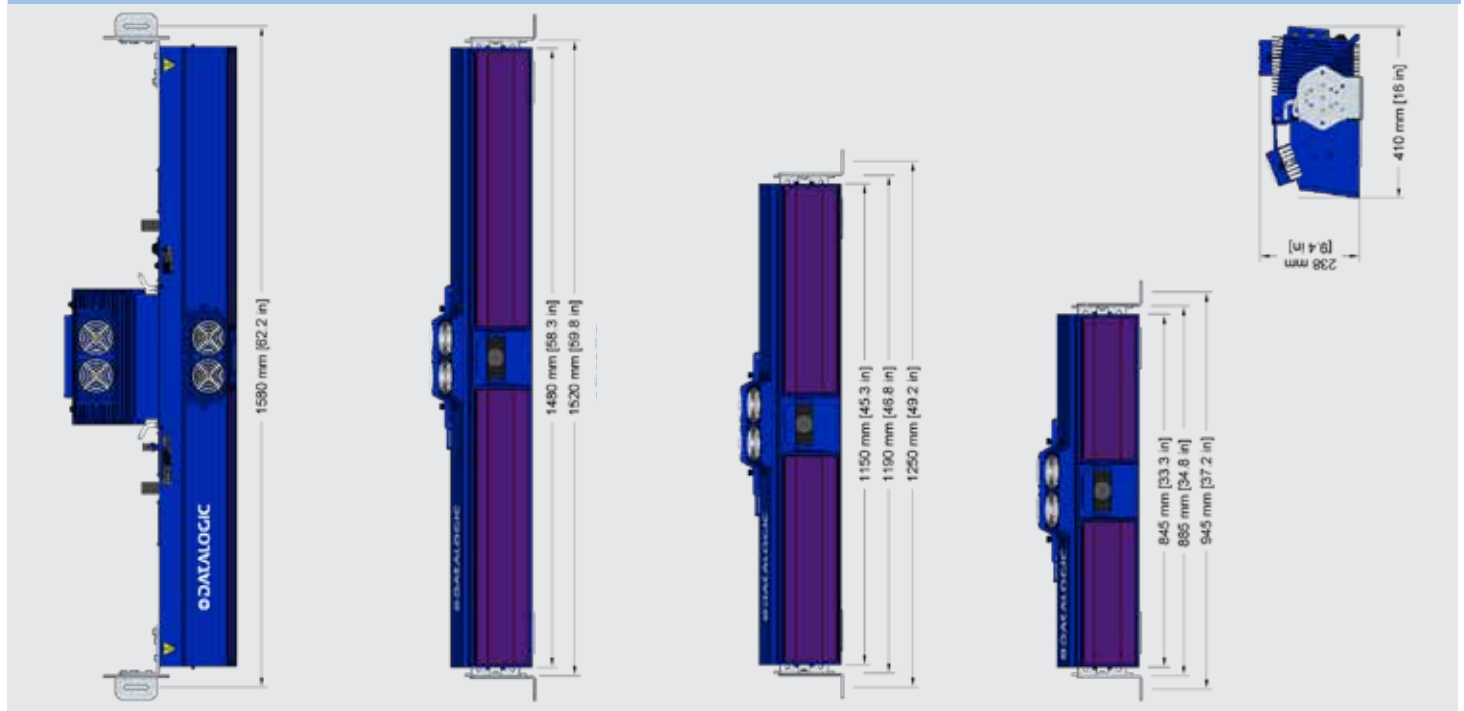
- Parcel sorting
- Dimension Weigh Scan System
- OCR and Videocoding
- Extended ID and image saving

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|--|
| Field of View | up to 1400 mm (55.12 in) |
| Max Resolution | 110 to 260 pixels/inch (DPI) * |
| Scan Rate | 33,000 scans/s (33kHz) |
| Imager Sensor Features | High Speed CMOS Line Scan (8192 pixels) |
| Optical lens | 90 mm, 110 mm and 140 mm * |
| Aperture Angle | 15° to 45° * |
| Readable Barcodes | All Standard 1D and 2D Symbologies |
| IP Rating | IP65 |
| Dimensions (Typical Value) | with external fans and Short Illumination: 845x416x237 mm [33.3x16.4x9.3 in] with external fans and Medium Illumination: 1150x416x237 mm [45.3x16.4x9.3 in] with external fans and long Illumination: 1480x416x237 mm [58.3x16.4x9.3 in] |
| Weight | 11kg [24 lbs] |
| Temperature Range | Operating: 0° to 50° C [32° to 122° F] Storage: -20° to 70° C [-4° to 158° F] |
| Power Supply/Consumption | 23-26VDC at illuminator connector |
| Case Material | Aluminum die-cast |
| Ethernet | 1 Gigabit Ethernet for decoding data to Host (may also be used for setup) 1 Gigabit Ethernet for image file transfer to Host |
| Serial Ports | 1 Main (COM) RS232/RS485FD opto-isolated serial port up to 115.2 Kbit/s 1 Aux RS232 opto-isolated serial port up to 115.2 Kbit/s |
| Internal Communication System | SyncNet Technology |
| Digital Inputs | 3 x Inputs (2 + 1 x "Encoder"), optocoupled, NPN/PNP |
| Digital Outputs | 2 x Outputs SW programmable, optocoupled, event driven, NPN |

* Depends on model and/or application type

MECHANICAL DRAWINGS



MODELS

| MODEL | DESCRIPTION | PART NUMBER |
|----------------------------|---------------------------|-------------|
| AV7000 Reader | | |
| AV7000-1000 | 140mm f/5.6 STD | 934001000 |
| AV7000-1100 | 140mm f/5.6 SHORT RANGE | 934001010 |
| AV7000-1200 | 110mm f/8.0 | 934001020 |
| AV7000-1300 | 90mm f/8 | 934001030 |
| AI7000 Illumination | | |
| AI7000-800 | SHORT LIGHTING SYS | 934001100 |
| AI7000-1100 | MEDIUM LIGHTING SYS | 934001110 |
| AI7000-1500 | LONG LIGHTING SYS | 934001120 |
| AI7000-800W | SHORT WHITE LIGHTING SYS | 934001200 |
| AI7000-1100W | MEDIUM WHITE LIGHTING SYS | 934001210 |
| AI7000-1500W | LONG WHITE LIGHTING SYS | 934001220 |

