

ACCU-SORT®

DM3500 Dimensioning System



Accurate dimensioning at high speed:

- Accuracy of 0.10" [0.25 cm] for height and 0.20" [0.51 cm] for width and length at belt speeds up to 600 FPM [3.0 MPS]

"Plug-and-Play" functionality:

- Exclusive "find belt" software functionality enables simplified setup and plug-and-play operation

"One box" design:

- Eliminates the need for alignment of multiple components
- Simplifies installation

Reliability:

- Uses time-tested design incorporating both solid-state laser diode and CCD array to capture package dimensions

Add the Flexibility of Dimensioning to your Bar Code Scanning System

The DM3500 is a compact, overhead dimensioning unit that automatically measures length, width, and height of packages as they are transported on a conveyor through the bar code scanning area.

The self-contained dimensioner is designed for simple installation over existing conveyor systems. No break is required in the conveyor belt. The unit's overhead location eliminates the potential for damage that side and bottom-mounted systems encounter.

The DM3500 uses a scanned, triangulated CCD camera / laser diode combination to capture the height profile of a package as it passes the unit. The system includes an Accu-Eye laser photoeye and tachometer. The tachometer monitors conveyor speed. Package detection is accomplished by the photoeye. Based on this data, the DM3500 calculates the package length, width, height, volume and position.

A "confidence rating" is provided to the host computer along with the package information. Based on the difficulty the system had in determining the package dimensions, this rating is useful for identifying damaged or improperly packaged products. Optional "package orientation information" can also be included in the message to the host, allowing for advanced package tracking through the system.

Versatile Enough to Accommodate Unique Applications

Based on your application, you can use package information from the DM3500 in conjunction with an Accu-Sort scanning system to provide increased flexibility by:

- Adjusting scanner focusing to assure accurate bar code decoding
- Linking package dimensions with bar code data before transmitting to host

The optional DM3500 configuration can detect non-singulated (side-by-side) packages, eliminating the sorting and inventory problems caused by "phantom" packages.

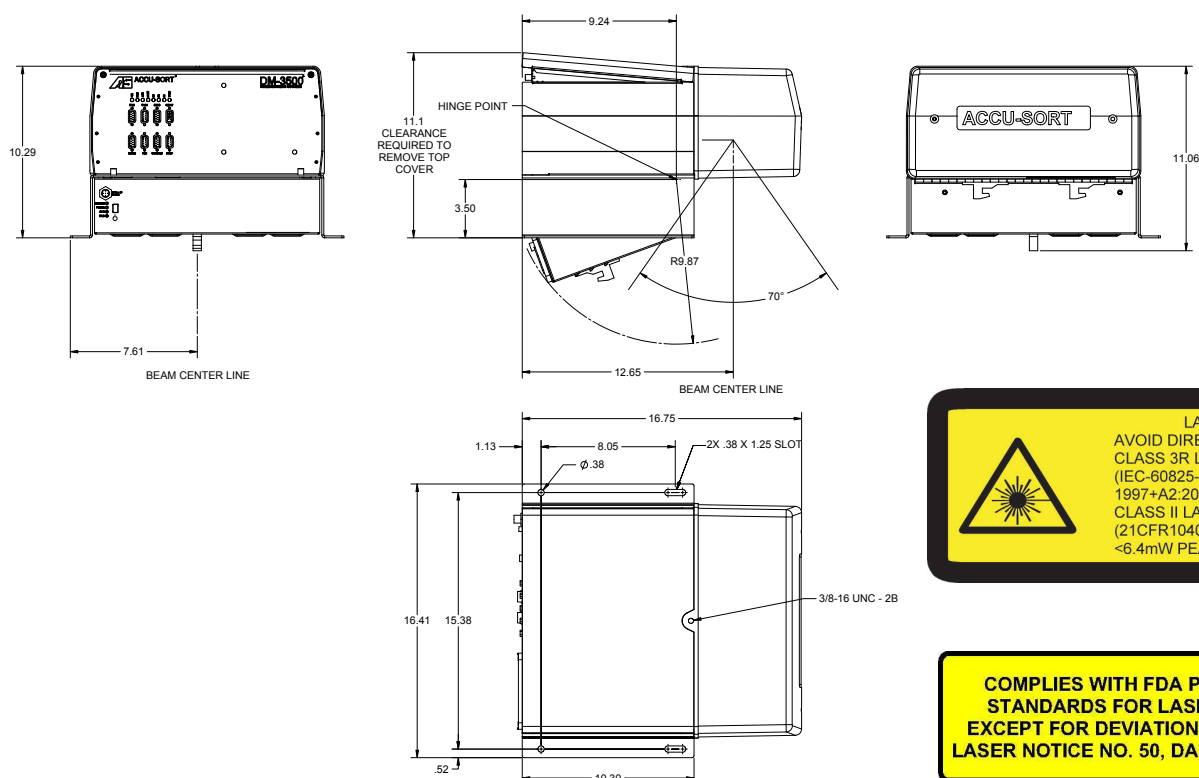
Typical Applications

Typical DM3500 Dimensioning solutions address these industries and applications:

- Automatic rate charging
- Trailer load planning
- Revenue recovery
- Parcel revenue recovery
- Sortation accuracy

Photo captions: (FROM TOP LEFT)
The AccuVision DM3500 Dimensioner.
AccuVision Camera Tunnel System utilizing the Dimensioning System.

AccuVision® DM3500 Dimensioning System



Specifications

| | |
|-----------------------|---|
| Name/Part Number | AccuVision® Dimensioner, DM3500-S and DM3500-NS |
| Dimensioning Accuracy | Height: +/- 0.10" [0.25 cm] Length and Width: 0.20" [0.51 cm] |
| Conveyor Speeds | Up to 600 FPM [3.0 MPS] |
| Box Size (maximum)* | L 72" [182.9 cm] x W 48" [121.9 cm] x H 36" [91.4 cm] |
| Box Size (minimum) | L 4.0" [10.2 cm] x W 2.4" [6.09 cm] x H 1.2" [3.05 cm] |
| Box Spacing | DM3500-S: Min. 2.0" [5.0 cm] spacing between packages DM3500-NS: No spacing required (packages can be touching) |
| Laser Type | Visible laser diode (red) 658nm, 6.4mW |
| Overall Dimensions | L 16.7" [424 mm] x W 16.4" [417 mm] x H 10.3" [262 mm] |
| Mounting Dimensions | L 8.05" [204 mm] x W 15.4" [391 mm] |
| Weight | 44 lbs. [19.9 kg] |
| Temperature | Operating: +14° to +122° F [-10° to +50° C] Storage: -4° to +158° F [-20° to +70° C] |
| Relative Humidity | 10-90% non-condensing |
| Power Requirement | 115/230 VAC, 50-60 Hz |
| Power Consumption | 2.5A max. at 110 VAC |
| Enclosure | IP 50, Zinc-plated steel frame/panel, aluminum/plastic covers |
| Status Indicators | LEDs - POWER, PE1, IDLE, AUX, HOST, TACH, F1, F2, F3 |
| Connections | HOST, AUX, CONSOLE, COM3 (4 serial ports RS232/422), Ethernet TACH (Tachometer), TRIG (Trigger), SYNC and SYNC2 (used to synchronize tach/trigger with scanning devices), RELAY (supports 4 I/O relays via optional Quad Relay Box) |
| Options | Side-by-side package detection, irregulars, gauging, camera focusing, tilt-tray I/F, bulk volume |
| MTBF | > 54,000 hours |
| Service Options | Installation assistance and on-site training |
| Warranty | 1-year limited, parts and labor |
| Compliances | UL, cUL, FCC (Class A) CE, CDRH Class II, IEC60825-1 Class 3R Certified Dimensioning Approvals: NCWM/NTEP Certified, OIML R129 Certified, Measurement Canada |

* Actual performance may vary with configuration and application. Maximum package length and width can increase in some applications.

For more information about auto-ID and material handling solutions from Accu-Sort Systems, contact:

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