



APPLICATIONS

Transportation & Logistic

- Postal and Courier Express sorting
- Video-Coding and OCR
- QWS systems for Revenue Recovery

Distribution and Retail

- Large distribution centres
- Multimedia sorting
- Reverse Logistics process



ADVANTAGES

- Large conveyor coverage with extended DOF up to 1400mm (55") that allows to load parcels with larger dimension perpendicular to conveyor direction (i.e cross-belt)
- High image quality for easy decoding and for OCR and VideoCoding application
- Outstanding reading performance on barcode, 2D-code even when damaged or with low quality
- Easy integration with OCR and VCS sw
- Smart Bottom solution with reduced required room
- NVS9000™ is ready to be integrated with standard OCR and Videocoding system to improve overall reading capability
- System supervisor sw provides diagnostics and statistics with a very intuitive visual on screen information
- Ready to use in high temperature environment

HIGHLIGHTS

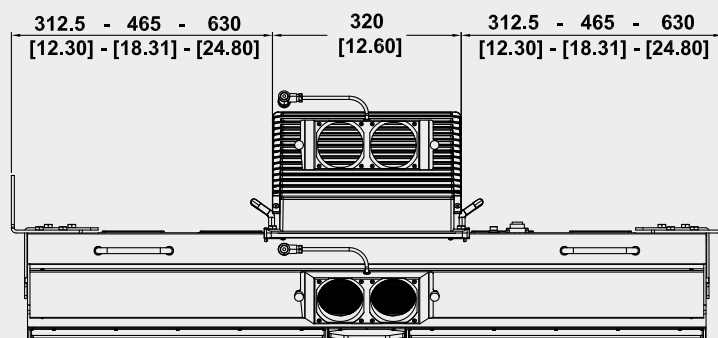
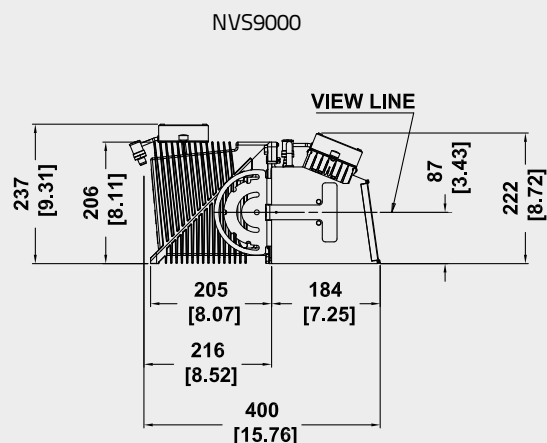
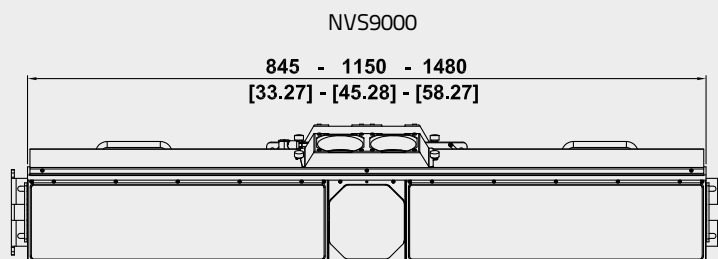
- Excellent reading performance for higher system throughput
- Extended Field of View: 1400mm (55")
- High reading performance on high speed conveyors: 4,8 m/s (945 fpm)
- Reduced overall System Dimension: 2,2 m (7ft)
- Video-Coding & OCR ready
- Integration with dimensioning and scale system
- Integration with Laser systems
- Easy installation by a single installer in few hours
- Easy maintenance and quick replacement
- Industrial reliability and consistency

GENERAL DESCRIPTION

NVS9000™ is an industrial high-end vision system that has been designed to drastically improve the productivity of postal, mail order and distribution companies. The integration of a new 8K linear sensor and a powerful lighting systems provides high quality image detection with extended depth of field on large conveyor up to 1400mm (55"). The new sensor frame rate, up to 240 frame/s, makes NVS9000™ to feature excellent dynamic performance, up to 4.5m/s on high resolution images (170dpi). This feature, combined with a new high speed autofocus system, guarantees excellent reading capabilities on high speed conveyor even on parcel with a very small gap. Every single detail of NVS9000™ has been designed to reduce the overall cost of installation. Unique point of configuration, a simple step by step automatic routine, a smart mechanical hang&fix bracket, the product lightweight and its handles, the reduced number of cables and devices allow a single installer to complete the system installation and setup in few hours.



DIMENSIONS



mm / inch

MODELS AND ACCESSORIES

| MODELS | |
|-------------|-----------------------------------------|
| Order No. | Description |
| 933701002 | NVS9000-1100 8K-8, 135mm, AF, CLINK |
| 933701001 | NVS9000-1200 8K-8, 105mm, AF, CLINK |
| 933701000 | NVS9000-1600 8K-8, 80mm, AF, CLINK |
| 933701006 | NVS9000-1700 8K-8, 60mm, AF, CLINK |
| 933701003 | NLS9000-800 SHORT LIGHTING SYS |
| 933701004 | NLS9000-1100 MEDIUM LIGHTING SYS |
| 933701005 | NLS9000-1500 LONG LIGHTING SYS |
| ACCESSORIES | |
| Order No. | Description |
| 93ACC1610 | AST-9000 AF SETTING TOOL |
| 93A051274 | CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m |
| 93A051269 | CAB-9305 VIDEO CAB. CLINK, 5 m |
| 93A051270 | CAB-9310 VIDEO CAB. CLINK, 10 m |
| 93A051276 | CAB-PW24 24VDC POWER CABLE, 10 m |
| 93ACC1733 | DK-500 DISTANCE KIT R5485 + CABLE 5 m |
| 93ACC1781 | LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m |
| 93ACC1763 | LCC-9506 LIGHT CURTAIN 600mm+CABLE 10m |
| 93ACC1764 | LCC-9509 LIGHT CURTAIN 900mm+CABLE 10m |
| 93ACC1765 | LCC-9512 LIGHT CURTAIN 1200mm+CABLE 10m |

TECHNICAL DATA

| | |
|-----------------------------------|------------------------------------------------------------------------------------|
| Dimensions | See drawings |
| Weight | NVS9000: 11 kg (24 lbs) |
| | NLS9000: Short 12kg (26 lbs) Medium 15kg (33 lbs) Long 19kg (41 lbs) |
| Housing | Alluminium die casting |
| Operating temperature | 0° to +50 °C (32 to 122°F) |
| Storage temperature | -20° to +70 °C (-4 to 158°F) |
| Humidity | 95% non condensing |
| Protection class | IP65 |
| Ccd sensor | 8192 pixels, 8 taps |
| Scan rate | Max 30KHz |
| Lens options | 60 mm, 80 mm, 105 mm, 135 mm |
| Illuminator (nls9000) models | Short, Medium, Long |
| Deflection mirror models | Short, Medium, Long |
| Focus | Dynamic |
| Image resolution range | 110-260 DPI (application dependant) |
| FOV from top | up to 1400 mm |
| DOF from top | up to 1200 mm |
| Max. Conveyor speed | 3 m/s (590 ft/min) for a resolution of 250 DPI |
| | 4.5 m/s (885 ft/min) for a resolution of 170 DPI |
| | > 5 m/s (985 ft/min) for a resolution of 100 DPI |
| Decoder CPU | Core 2 Duo |
| Ram | 2 Gbytes |
| Memory card for parameters saving | 2 GB Compact-Flash |
| Operating system | Windows XP Embedded |
| Decoder software | Datalogic Automation proprietary |
| Readable symbologies | All standard 1D and 2D symbologies |
| Setup interfaces | USB port, VGA port, Ethernet Gb |
| Host data interface | RS232/RS485 full duplex up to 115.2 Kbit/s (optoisolated) |
| | Ethernet Gb |
| Image data output | Gigabit Ethernet, C-Link |
| Digital I/O | Presence Sensor input, Speed sensor input |
| | 4 Input / 4 Output NPN or PNP open collector input/output, optoisolated |
| Leds and indicators | GENERAL: Power, Ready, Good, Status |
| | COMMUNICATION: Position Sensor, Speed Sensor, Trigger, Video Sync, Chain Sync, COM |
| Supply voltage | 24 VDC +/-10% |
| Power consumption | 360 W average (450 max) |
| Led class | Class 2M |

VideoCoding and OCR Ready



Distribution Centre



Postal and Courier Express sorting

