



### APPLICATIONS

- Transportation & Logistic
- Postal and Courier Express sorting
- Video-Coding and OCR
- DWS systems for Revenue Recovery
- Distribution and Retail
- Large distribution centres
- Multimedia sorting
- Reverse Logistics process

### ADVANTAGES

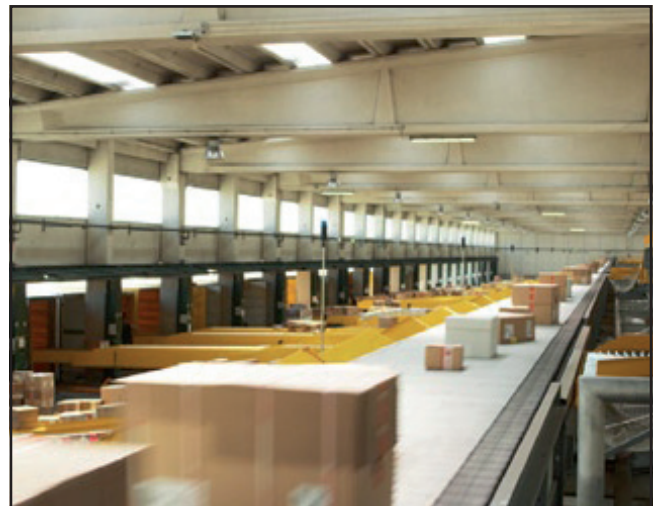
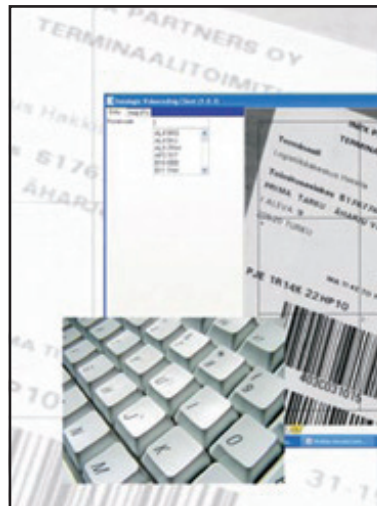
- Large conveyor coverage with extended DOF up to 1400mm (55") that allows to load parcels with larger dimension perpendicular to conveyor direction (i.e cross-belt)
- High image quality for easy decoding and for OCR and VideoCoding application
- Outstanding reading performance on barcode, 2D-code even 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

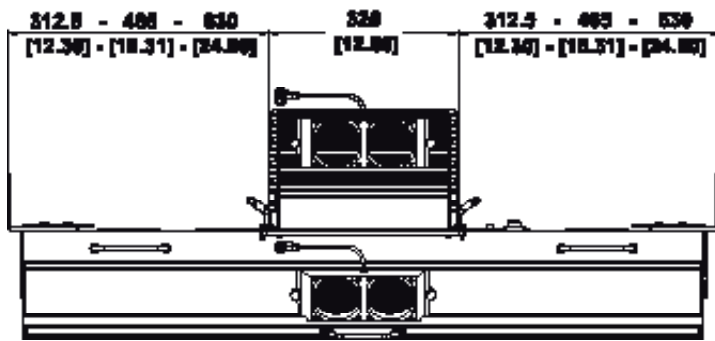
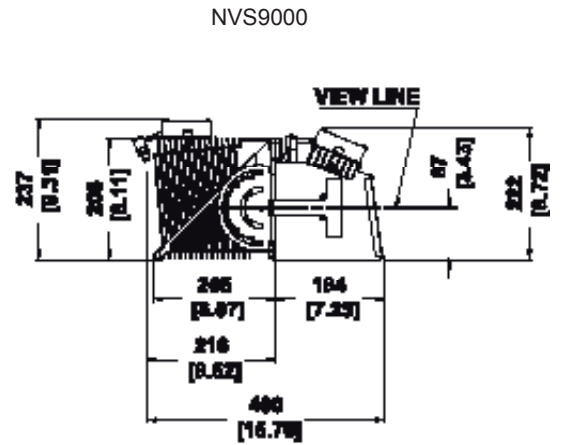
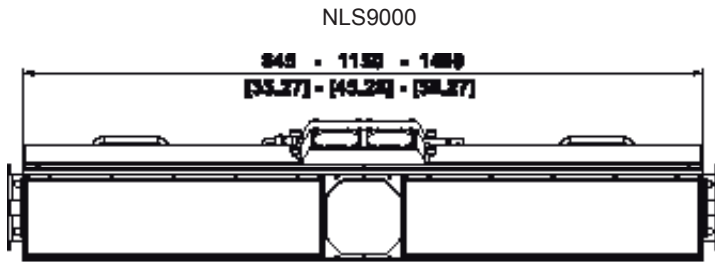
- Excellent reading performance for higher system throughput
- Extended Field of View: 1400mm (55")
- High reading performance on high speed conveyors: 4,8 m/s (945 fpm)
- Reduced overall System Dimension: 2,2 m (7ft)
- Video-Coding & OCR ready
- Integration with dimensioning and scale system
- Integration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

## GENERAL DESCRIPTION

NVS9000<sup>™</sup> 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<sup>™</sup> 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<sup>™</sup> 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 RS485 + 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