



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.

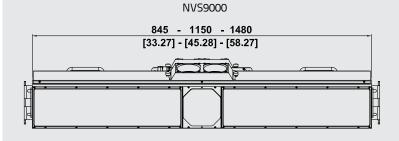


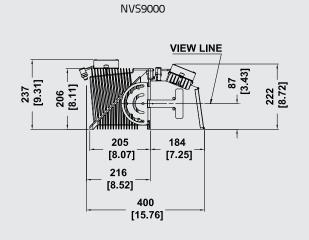


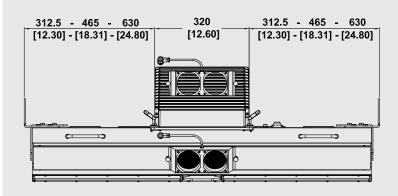




DIMENSIONS







mm / inch

MODELS AND ACCESSORIES

MODELS Description 0rder No. Description 933701002 NV59000-1100 BK-8, 135mm, AF, CLINK 933701001 NV59000-1200 BK-8, 105mm, AF, CLINK 933701000 NV59000-1600 BK-8, 80mm, AF, CLINK 933701006 NV59000-1700 BK-8, 60mm, AF, CLINK 933701003 NL59000-800 SHORT LIGHTING SYS 933701004 NL59000-1100 MEDIUM LIGHTING SYS 933701005 NL59000-1500 LONG LIGHTING SYS ACCESSORIES Description 0 3ACC1610 AST-9000 AF SETTING TOOL 93A051274 CAB-9202 SERIAL CABLE 9 PIN, MF, 2 m 93A051269 CAB-9305 VIDEO CAB. CLINK, 5 m 93A051270 CAB-9310 VIDEO CAB. CLINK, 10 m 93A051276 CAB-9310 VIDEO CAB. CLINK, 10 m 93ACC1783 DK-500 DISTANCE KIT RS485 + CABLE 5 m 93ACC1781 LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m 93ACC1764 LCC-9502 LIGHT CURTAIN 00mm+CABLE 10m 93ACC1765 LCC-9512 LIGHT CURTAIN 1200mm+CABLE 10m		
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933701001 NV59000-1200 8K-8, 105mm, AF, CLINK 933701000 NV59000-1600 8K-8, 80mm, AF, CLINK 933701006 NV59000-1700 8K-8, 60mm, AF, CLINK 933701003 NL59000-800 SHORT LIGHTING SYS 933701004 NL59000-1100 MEDIUM LIGHTING SYS 933701005 NL59000-1500 LONG LIGHTING SYS 4CCESSORIES Order No. 93ACC1610 AST-9000 AF SETTING TOOL 93A051274 CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m 93A051276 CAB-9305 VIDEO CAB. CLINK, 5 m 93A051270 CAB-9310 VIDEO CAB. CLINK, 10 m 93A051276 CAB-PW24 24VDC POWER CABLE, 10 m 93A0C1733 DK-500 DISTANCE KIT RS485 + CABLE 5 m 93ACC1763 LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m 93ACC1764 LCC-9506 LIGHT CURTAIN 900mm+CABLE 10m	Order No.	Description
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-9310 VIDEO CAB. CLINK, 10 m 93ACC1733 DK-500 DISTANCE KIT RS485 + CABLE 5 m 93ACC1781 LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m 93ACC1763 LCC-9509 LIGHT CURTAIN 600mm+CABLE 10m 93ACC1764	933701002	NVS9000-1100 8K-8, 135mm, AF, CLINK
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93ACC1781 LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m 93ACC1763 LCC-9506 LIGHT CURTAIN 600mm+CABLE 10m 93ACC1764 LCC-9509 LIGHT CURTAIN 900mm+CABLE 10m	93A051274 93A051269	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m
93ACC1763 LCC-9506 LIGHT CURTAIN 600mm+CABLE 10m 93ACC1764 LCC-9509 LIGHT CURTAIN 900mm+CABLE 10m	93A051274 93A051269 93A051270	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m CAB-9310 VIDEO CAB. CLINK, 10 m
93ACC1764 LCC-9509 LIGHT CURTAIN 900mm+CABLE 10m	93A051274 93A051269 93A051270 93A051276	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m CAB-9310 VIDEO CAB. CLINK, 10 m CAB-PW24 24VDC POWER CABLE, 10 m
	93A051274 93A051269 93A051270 93A051276 93ACC1733	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m CAB-9310 VIDEO CAB. CLINK, 10 m CAB-PW24 24VDC POWER CABLE, 10 m DK-500 DISTANCE KIT RS485 + CABLE 5 m
93ACC1765 LCC-9512 LIGHT CURTAIN 1200mm+CABLE 10m	93A051274 93A051269 93A051270 93A051276 93ACC1733 93ACC1781	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m CAB-9310 VIDEO CAB. CLINK, 10 m CAB-PW24 24VDC POWER CABLE, 10 m DK-500 DISTANCE KIT RS485 + CABLE 5 m LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m
	93A051274 93A051269 93A051270 93A051276 93ACC1733 93ACC1781 93ACC1763	AST-9000 AF SETTING TOOL CAB-9202 SERIAL CABLE 9 PIN, M/F, 2 m CAB-9305 VIDEO CAB. CLINK, 5 m CAB-9310 VIDEO CAB. CLINK, 10 m CAB-PW24 24VDC POWER CABLE, 10 m DK-500 DISTANCE KIT RS485 + CABLE 5 m LCC-9501 LIGHT CURTAIN 150mm+CABLE 10m LCC-9506 LIGHT CURTAIN 600mm+CABLE 10m



TECHNICAL DATA

Di	Condension
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
	3 m/s (590 ft/min) for a resolution of 250 DPI
Max. Conveyor speed	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
	RS232/RS485 full duplex up to 115.2 Kbit/s (optoisolated)
Host data interface	Ethernet Gb
Image data output	Gigabit Ethernet, C-Link
D 1140	Presence Sensor input, Speed sensor input
Digital I/O	4 Input / 4 Output NPN or PNP open collector input/output, optoisolated
	GENERAL: Power, Ready, Good, Status
Leds and indicators	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
Eca class	Class 2111

VideoCoding and OCR Ready



Distribution Centre



Postal and Courier Express sorting

