NVS9000™

Camera System

Highlights

NVS9000™ has been specifically designed to dramatically improve the overall system throughput in large couriers and postal distribution centres. At the same time, NVS9000™ provides the simplest integration, the easiest installation and highest industrial reliability for a very low total cost of ownership.

• HIGHER SYSTEM THROUGHPUT
NVS9000™ provides high quality image detection with extended depth of field on large conveyors up to 1400 mm (55"). Outstanding dynamic performance, up to 4.8 m/s, combined with a new high speed autofocus system, guarantees excellent reading capabilities on high speed conveyors.

• SIMPLE INTEGRATION
NVS9000™ can be easily mechanically integrated thanks to its patented pulsed lighting feature that dramatically reduces the overall system dimensions. The NVS9000™ can be combined with dimensioning and scale systems for revenue recovery applications and it's ready to be integrated with OCR and Videocoding sw for improved overall reading capability.

• LOW COST OF INSTALLATION
A single installer can complete the system mounting and setup in just a few hours due to a unique point of configuration, a simple step by step procedure and the product's lightweight.

• LOW COST OF OWNERSHIP
A plug and play concept has been introduced for every replaceable part to reduce the MTTR to a few minutes. Preventive maintenance is also easily improved by the Datalogic WebSentinel™ supervisor sw that provides diagnostics, statistics and email alerts activation anywhere and anytime.

• INDUSTRIAL RELIABILITY
The rugged metal construction, IP65 protection and max operative temperature of 50°C make NVS9000™ the ideal solution even in harsh environments. The simplified mechanics of the new autofocus, a solid state integrated decoder, and an active filter-free backup fan increase the overall system reliability.

Features

- 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

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

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NVS9000™

Specifications

Applications

Technical Features

Dimensions	See drawings
Weight	NVS9000: 11Kg (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	1 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

Postal and Courier Express sorting

Distribution Centre

VideoCoding and OCR Ready

Remote Diagnostics by Datalogic WebSentinel™

Dimensions
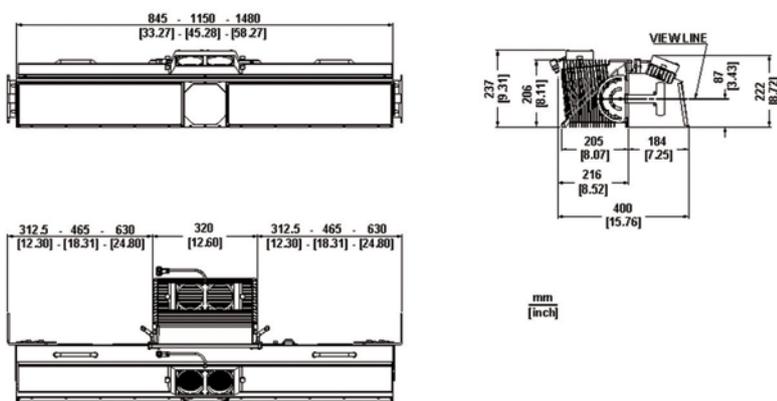
845 - 1150 - 1480
[33.27] - [45.28] - [58.27]

312.5 - 465 - 630
[12.30] - [18.31] - [24.80]

320
[12.60]

312.5 - 465 - 630
[12.30] - [18.31] - [24.80]

VIEW LINE

237 [9.31]
206 [8.11]
87 [3.43]
222 [8.72]

205 [8.07]
184 [7.25]
216 [8.52]
400 [15.76]

mm
[inch]

9C0005631

For more information and software downloads see: www.automation.datalogic.com/NVS9000

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