

PRELIMINARY

DV9100

Vision System

FEATURES

- Bar code and 2D code reading in any orientation
- Auto-discrimination of all most common symbologies
- High reading performance on small and low quality codes
- Ready for OCR and Video-encoding applications
- Dust proof internal optics
- High speed reliable auto-focus system
- Real time focus on object profile
- Separate lighting system
- PC based decoding station
- Easy to use Windows based configuration software
- Industrial robust architecture

APPLICATIONS

- Parcel bar code and 2D code reading
- Complex reading applications
- Parcel OCR and Video-encoding

GENERAL DESCRIPTION

Datalogic's **DV9100** is the newest generation of high speed Vision Systems available to satisfy a wide range of bar code and 2D code reading applications and already open to new advanced OCR and Video-coding applications.

Thanks to highest quality optics and advanced electronics, Datalogic's **DV9100** captures high quality grey scale images of parcels transported on the fastest conveyors. The images are made available in real time on a high speed video interface. The highest image quality is assured by the advanced image control system and is kept constant even with different parcel dimensions and variable transport speeds.

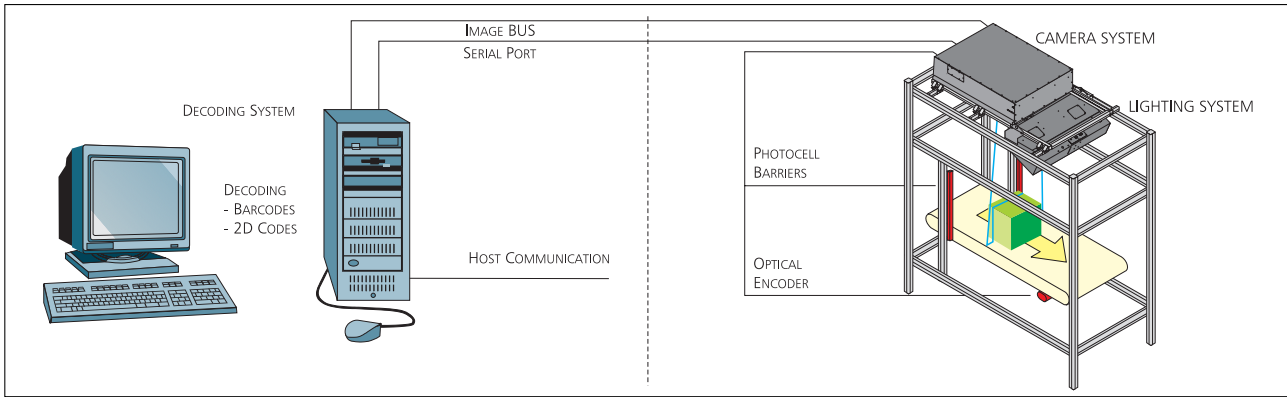
The **DV9100** Camera System features an innovative patented auto-focus system, unique in terms of speed, functionality and reliability thanks to minimum internal moving parts. The auto-focus system allows coverage of the largest depth of field required in sorting and other logistics applications.

The high quality images are processed by the **DV9100** Decoding System, a powerful PC-NT based decoding system able to provide fast and reliable decoding of all captured bar codes and 2D codes, solving the most complex reading applications.

The **DV9100** represents Datalogic's solution for high performance linear and 2D code reading through Vision Technology. State-of-the-art imaging of objects combined with advanced decoding technology provides an extremely flexible reading solution.

Datalogic's market leadership in laser based omni-directional reading systems for parcel sorting and tracking applications is now reinforced by the new Vision System line. Datalogic's leadership in both technologies put it in the position to provide the best possible identification solution to its customers, opening the way to a new class of applications.

SYSTEM ARCHITECTURE



SPECIFICATIONS

CAMERA SYSTEM

POWER SUPPLY	110/230 Vac; 50 to 60 Hz
POWER CONSUMPTION	400 watts
IMAGE RESOLUTION	130 - 250 dpi, according to application requirements
CONVEYOR COVERAGE	Up to 1100 mm (43 in)
DEPTH OF FIELD	Up to 1000 mm (39 in)
CONVEYOR SPEED	Up to 2.5 m/s
SUPPORTED LENSES	Most commercial lenses plus Datalogic high quality custom lenses
IMAGE STANDARD	8 bit grey level image
VIDEO INTERFACE	Parallel 16 or 32 bit LVDS bus
COMMUNICATIONS	Port1, Port2, Port3: RS-232 Port 4: RS-485/422 10 base T Ethernet
DIMENSIONS LxWxH	1100 x 800 x 250 mm
WEIGHT (Approx)	80 Kg

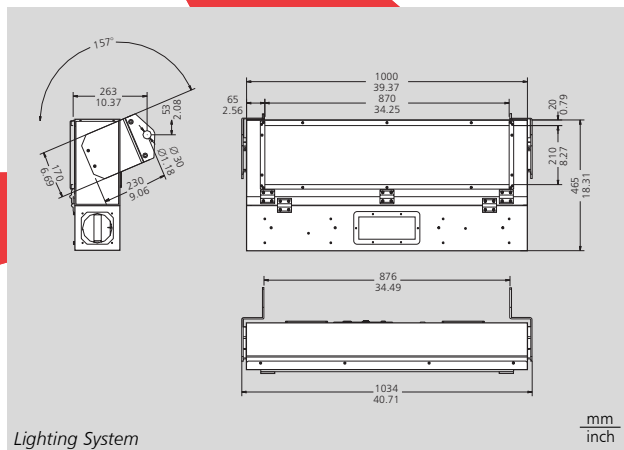
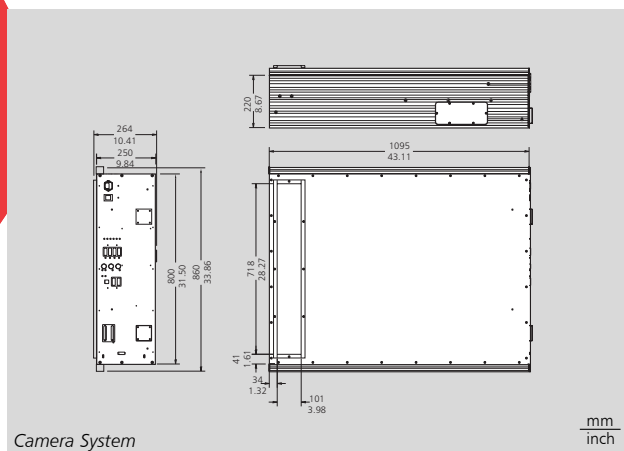
LIGHTING SYSTEM

LIGHT SOURCE	2 x 400W regulated high-pressure sodium lamps
POWER SUPPLY	110/230 Vac; 50 to 60 Hz
POWER CONSUMPTION	1000 watts
DIMENSIONS LxWxH	1000 x 345 x 160 mm
WEIGHT (Approx)	25 Kg

DECODING SYSTEM

LABEL ORIENTATION	Full omni-directional 360 degrees
READABLE BARCODES	Code 128, Code 39, Interleaved 2/5, EAN/UPC and all other popular bar codes
READABLE 2D CODES	PDF417, Datamatrix, Maxicode and all other popular 2D codes
MAX CODE RESOLUTION	0.25 mm (10 mils)
OUTPUT INFORMATION	Decoded label, label image
DEFAULT OUTPUT	ASCII characters on RS232
POWER SUPPLY	110/230 Vac; 50 to 60 Hz
POWER CONSUMPTION	300 watts
DIMENSIONS	Mini tower case

DIMENSIONS



PRELIMINARY

A UDIN Composants & systèmes d'automatisme

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We reserve the right to make modifications and improvements

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