



DV9000

CCD Vision System

Features

- Open standard architecture
- Modular and flexible system
- Multiple linear CCD version available
- Multi-standard video output
- Patented high speed auto-focus system
- Real time object profile focusing
- Integrated sensor controls and pixel equalisation
- Designed for industrial environment
- Easy to use Windows based configuration software
- Remote diagnostic system
- Long life sodium lamps lighting system
- PC based bar code and 2D code decoding stations

Applications

- Multi-side parcel OCR and Video-encoding
- Multi-side parcel bar code and 2D code reading

General Description

Datalogic's newest generation of high speed integrated camera systems, the **DV9000** CCD VISION SYSTEM, is available today to satisfy a wide range of applications, from image capturing for OCR and video-encoding systems to bar code and 2D code reading.

Thanks to the highest quality optics and Datalogic's patented high speed auto-focus system, the **DV9000** captures high quality gray scale images of parcels transported on the fastest conveyors. The images are made available in real time on a high speed multi-standard video interface.

The highest image quality is assured with the **DV9000**'s image control system and is kept constant even on different parcel dimensions and variable transport speeds.

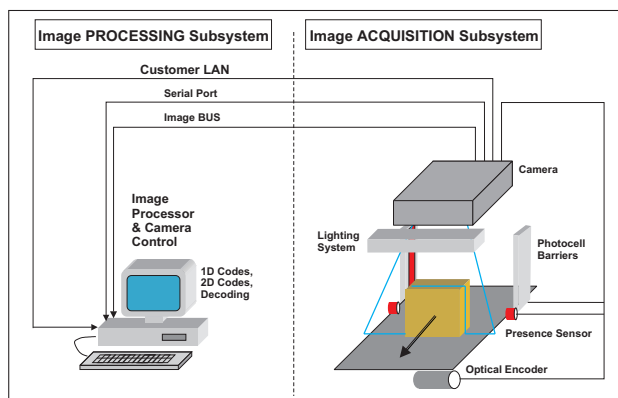
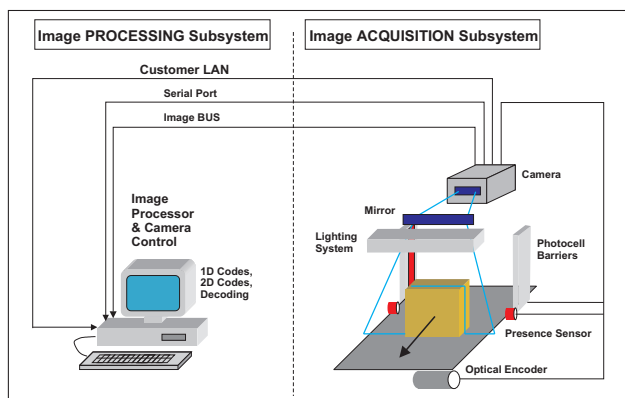
DV9000 can be equipped with all state-of-the-art linear high speed 4K and 6K CCD sensors, and is already configured to be equipped with 8K high speed sensors. Such a wide range of options, the capability to mount virtually all types of commercial lenses and the utilisation of high quality Datalogic custom lenses make the largest range of applications possible.

DV9000 features an innovative patented auto-focus system, unique in terms of speed, reliability and durability and minimising internal moving parts. The auto-focus system allows coverage of the largest depth of field required in materials handling and postal applications. **DV9000** technology also allows real time focusing on non-regular surfaces to always provide in-focus images.

The **DV9000**'s modular concept offers the unique capability to address traditional imaging above the conveyor, as well as laterally and from below the conveyor, all using the same technology.

DV9000 is also offered with an optional PC-based real time decoding system able to decode most popular linear bar codes and 2D codes in omni-directional conditions with the highest reliability.

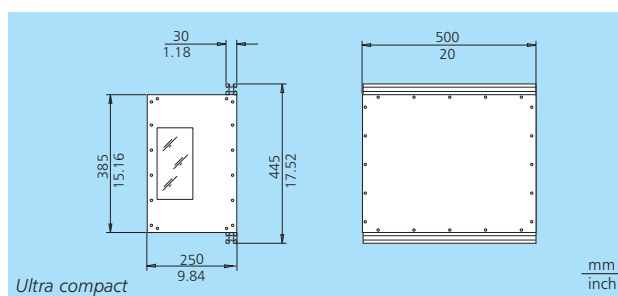
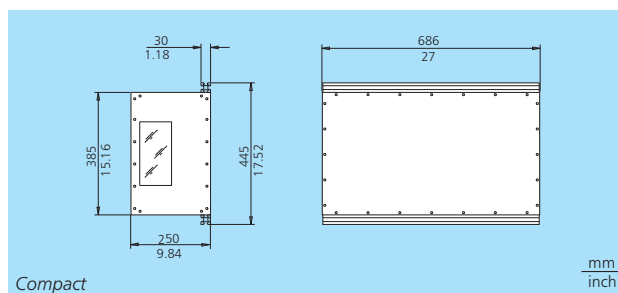
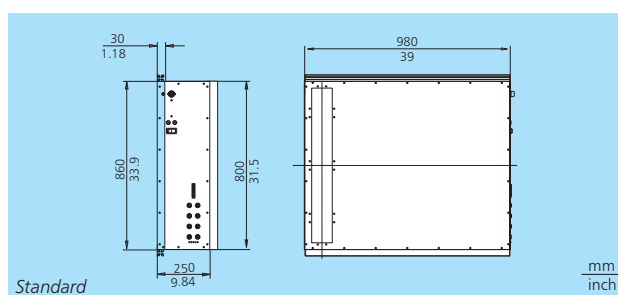
System Architecture



Specifications

POWER SUPPLY	110/230 Vac; 50 to 60 Hz
POWER CONSUMPTION	1200 watts (Camera + Lightning system)
LIGHT SOURCE	2 x 400W regulated hi-pressure sodium lamps
IMAGE RESOLUTION	100 - 250 dpi, according to application requirements
CONVEYOR COVERAGE	Up to 1500 mm (59 in)
DEPTH OF FIELD	Up to 1000 mm (39 in)
PACKAGE SPACING	75 mm at 2.5 m/s
CONVEYOR SPEED	Up to 3.5 m/s
SUPPORTED LENSES	Most commercial lenses plus Datalogic high quality custom lenses
SUPPORTED SENSORS	4096 pixel, 40 Mpixel/s (10 Kscan/s) 6144 pixel, 40 Mpixel/s (6.5 Kscan/s) 6144 pixel, 100 Mpixel/s (16 Kscan/s) 4096 pixel, 100 Mpixel/s (24.4 Kscan/s) 8192 pixel and up to 120 Mpixel/s (available soon)
IMAGE STANDARD	8 bit gray level image (add. binary image optional)
VIDEO INTERFACE	Parallel 16 or 32 bit TTL bus Parallel 16 or 32 bit LVDS bus Parallel 16 or 32 bit RS422 bus Fiber optic link (available soon)
CAMERA	Port1, Port2, Port3: RS-232
COMMUNICATIONS	Port 4: RS-485/422 10 base T Ethernet
LABEL ORIENTATION	Full omni-directional 360 degrees
READABLE CODES	Maxi Code, Code 128, Code 39, Interleaved 2/5, EAN/UPC, Codabar and all other popular bar codes
OUTPUT INFORMATION	Decoded label, label image
DEFAULT OUTPUT	ASCII characters on RS232
CAMERA DIMENSIONS	<i>Standard camera</i> 250 x 800 x 980 mm <i>Compact camera</i> 250 x 385 x 686 mm <i>Ultra compact camera</i> 250 x 385 x 500 mm <i>Lighting system</i> 150 x 1000 x 330 mm
WEIGHT	Depends on camera size and optical configuration
OPERATING TEMP.	0 to 40 °C
HUMIDITY	0 to 95% non condensing

Dimensions



DATA LOGIC DL

Bar Code & More



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We reserve the right to make modifications and improvements

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