

# DVWS

DIMENSIONING | WEIGHING | SCANNING



## Scanning

High-end CCD Camera System



Scanning is identification. With identification solutions based on laser scanners, cameras and/or RFID-technologies nearly every reading situation can be handled.

#### High-end CCD Camera System

The ICR890 camera system is the ideal solution in linear and 2-D code reading for all high-end applications in sortation, transport and logistics processes. In addition the excellent image quality provided by the ICR890 makes it suitable for all kinds of OCR and video coding tasks.

The modular camera design includes integrated illumination, focus control and a high-performance decoder. The illumination is optimised to provide, without adjustment, homogeneous lighting over a wide range of reading situations. The receiver optic is capable of covering the most demanding reading situations in terms of resolution, depth of field and field of view.

A high speed image output with 2-Gbit Ethernet channels can be used for video coding or OCR applications. The integrated JPEG encoder can output compressed pictures in realtime. This feature leads to a significant reduction of the data rate to the host system.

#### System advantages

- Large reading field from 1,400 to 3,000 mm
- High-end CCD sensor (8,192 pixel)
- High line rate of 19 kHz
- Integrated co-planar LED illumination
- Integrated realtime focus control
- Integrated high performance decoder board
- Ethernet interfaces for data transfer and image-lift
- Integrated flash card for parameter cloning
- Integrated digital zoom function
- OCR and video coding compatible picture quality
- Online status monitoring of all system components

## Technical Data

Type	Line camera with 8,192 pixel Line rate: Max. 19.1 kHz
Design	CCD line camera
Resolution	250 dpi at reading distance 2 m; 170 dpi at reading distance 3 m
Light source	Visible red LED ( $\lambda = 620 \text{ nm}$ )
Conveyor coverage	1,000 mm at resolution of 170 dpi; 600 mm at resolution of 250 dpi
Depth of field	1,600 mm at resolution of 170 dpi; 600 mm at resolution of 250 dpi
Housing	Die-cast aluminium; Enclosure rating IP65 (to DIN 40 050)
Max. conveyor speed	1.9 m/s at resolution of 250 lpi; 2.8 m/s at resolution of 170 lpi; 4.8 m/s at resolution of 100 lpi
Supported lenses	Focal length 135 mm (standard)
1-D code types (bar codes)	2/5 Interleaved, Code 39, Code 128; EAN/UPC with add-on, Codabar, EAN 128
2-D code types	Data matrix ECC200, PDF417 (others on request)
No. of codes per object	1-D: max. 50; 2-D: max. 10
Data communication	2 x RS-232/422/485, max. 115,2 kbit/s; 1 x Ethernet, 10/100 Mbit/s; 2 x CAN bus, max. 1 Mbit/s 2 x 1-Gbit Ethernet for image output

