DCOS AUTOMATION
DRIVE & CONTROLS
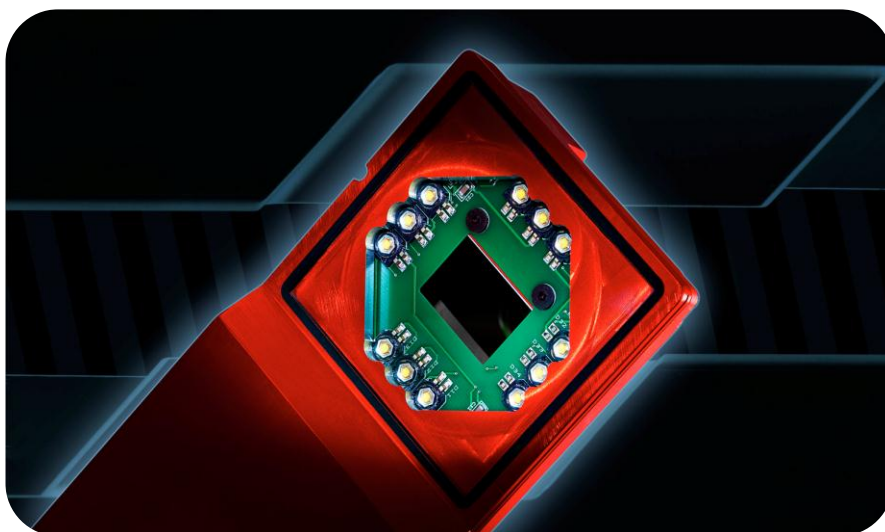
CLOSED-LOOP DENSITY

CRC4 SCANNER

The intelligent inspection scanner CRC4 provides full control over the main quality functions. Density measurement and color register controls can be combined in a closed-loop concept dedicated to newspaper offset printing. With a unique in-line measurement technology, the scanner reads across the full web width and returns online data from each ink zone, used for wide range of applications.

The DRCS color-registration-control scanner (CRC4) is designed to operate as an inline densitometer, measuring directly from the online print. From the very first production copy the scanner registers and analyses minimal patterns printed along the web width. Automated ink key adjustment based on the measured online data results in higher quality, reduced waste, decreased ink consumption, less cleaning maintenance and operator intervention.

In addition to the density control various web inspection applications can be regulated and detected at the same time. Color register, fan-out, dot gain and error detections such as scumming and web wrinkles are measured in the same scanner.

DCOS´s register system with closed-loop density control can easily be adapted to all kinds of newspaper presses. With market-leading design it is easy to install, and together with our global press experience we can offer a unique integrated closed-loop solution.

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Specification

Camera:	CCD camera	
	High power LEDs	250lm
	Frame rate	32fps
Performance:	Maximum operation web speed	20m/s
	Motorized profile bar speed	2m/s
	Focus depth	±7mm
Register mark:	Standard Mark CRC4	
	Mark size CRC4	Ø0,22mm
Accuracy:	Density measurement	±D0.05
	Dot gain	±3%
	Color register	±0,01mm
	Fan-out	±0,01mm
Operation:	Standard Industrial Embedded PC	
	Microsoft Windows® Operating system	
	Standard LCD 22" Wide Touch screen	
	Numbers of operation stations customer choice	
	Real-time monitoring with direction guidance	
Interface:	Ethernet	Cat-6
Certifications:	CE Standard, UL Approved, IP54 Classified	
Environment:	Temperature	0ºC – 60ºC
Dimensions:	Scanner (l-w-h)	180x80x50mm
	Profile bar (l-w-h)	Adj.x120x60mm
Options:	Color-to-color register	
	Fan-Out control	
	Scumming detection	
	Web wrinkle detection	
	Removable glass cleaning	
	General collecting beacon	
	Wastegate control	

Specification may change without further notice.

Benefits & Features

- **Minimal cost of ownership.**
  The self-calibrated system, automatically adepts to different paper types, and minimum maintenance is required.

- **Small, compact and robust design.**
  Total height of 60mm and compact design provides many mounting options in an installation-friendly way.

- **Multiple application scanners.**
  Several cost-saving and productivity-enhancing applications in one scanning device.

- **Cost effective solution.**
  Density inspection with minimal patterns results in a cost-effective solution dedicated to the offset newspaper industry.

- **High intensity LED's results in better contrast.**
  Optical angle calculations and adjusted intensity result in higher density accuracy.