

## ELSCAN dualView - technical data

| Camera                     |  |                            |
|----------------------------|--|----------------------------|
| Sensor chip                | 2 x CMOS chip  |                            |
| Resolution                 | 4000 x 3000 (12 megapixels)                          |                            |
| Field of view              | S(tandard)   | 140 mm x 105 mm            |
|                            | L(arge)  | 230 mm x 172.5 mm          |
|                            | XL(arge)   | 400 mm x 300 mm            |
| Image resolution (f=35 mm) | S(tandard)   | 726 dpi + 3176 dpi         |
|                            | L(arge)  | 442 dpi + 1933 dpi         |
|                            | XL(arge)   | 254 dpi + 1111 dpi         |
| Image resolution (f=50 mm) | S(tandard)   | 726 dpi + 4537 dpi         |
|                            | L(arge)  | 442 dpi + 2762 dpi         |
|                            | XL(arge)   | 254 dpi + 1588 dpi         |
| Zoom                       | digital (zoom down to 3.6 mm x 2.7 mm field of view) |                            |
| Web speed                  | up to 1300 m/min                                     |                            |
| Ambient temperature        | +5 °C to +45 °C                                      |                            |
| Dimensions (H x W x L)     | S(tandard)   | 272.5 mm x 166 mm x 166 mm |
|                            | L(arge)  | 455 mm x 270 mm x 230 mm   |
|                            | XL(arge)   | 550 mm x 450 mm x 355 mm   |
| Protection class           | IP 30  |                            |
| PC                         |  |                            |
| PC power supply            | 100 – 240 V AC / 400 W (± 10%)                       |                            |
| Nominal frequency          | 50 – 60 Hz   |                            |
| Protection class           | IP 30  |                            |
| Connections                | USB, DVI   |                            |
| Monitor                    |  |                            |
| Resolution                 | 1920 x 1200 (24")                                    |                            |
| Power supply               | 100 – 240 V AC / 120 W (± 10%)                       |                            |
| Connection                 | DVI  |                            |

## ELSCAN dualView



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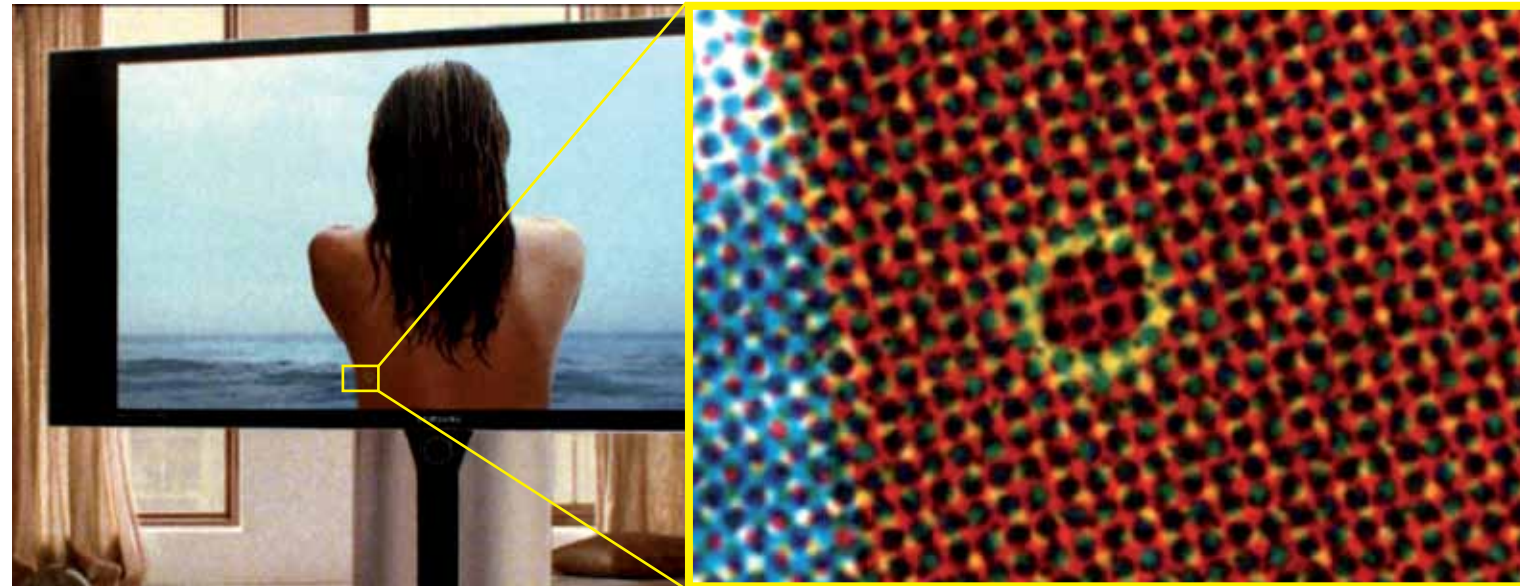
Subsidiaries  
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**Web viewing system  
 with LED flash technology and  
 double HDTV image resolution**

# ELSCAN dualView

High capacity utilization rates and excellent print quality for an efficient production call for products with special characteristics - systems that are more intelligent than the standard. ELSCAN dualView by Erhardt+Leimer provides the perfect answer for these requirements.



**Be ahead of the others**  
An essential part of web inspection for printing presses is quality control. The measurement and quantification of all factors which affect printing quality are requirements for this purpose; in particular, the measurement report and visualization are very important. A fully automatic operation is not possible yet, even though the development of printing machines has made progress.

ELSCAN dualView is more than only a printing control system - it stands for a complete philosophy which combines innovative technology and the printer's convenience, as well as a compact design. Outstanding features have never been more impressively combined.

**More information**  
HDTV was yesterday - today is ELSCAN dualView

With ELSCAN dualView the 2.5-fold HDTV 1080p resolution is possible. Not only once, but simultaneously by means of two 5 megapixel cameras, for the overview and the details.

In addition to the standard flash lamp illumination unit it is also possible to integrate a maintenance-free LED illumination unit.

**Increase of efficiency**  
Due to time saving

ELSCAN dualView is a compact web viewing system consisting of a dual camera system, mounted on a wear-free tooth belt driven crossbeam and an industrial PC for image recording, image visualization and image processing. The use of two high-resolution megapixel cameras with fixed focus lenses with different focal length each offers simultaneously the 20-fold quantity of image information. Conventional video inspection systems can achieve this only by camera movement or lense zooming. Both cases take a lot of time during which a lot of wastepaper is produced. During this time, ELSCAN dualView takes multiple images -for multiple profit. By using ELSCAN dualView you don't only achieve a multiple information gain, but also an enormous efficiency increase, which will again increase the productivity of the print process.

**Green print**  
High return on investment with additional ecological benefit

Produce more environmentally friendly, more effectively and preserve resources by using ELSCAN dualView.

- Ecological and economical printing due to**
- + Shorter setup time
  - + Minimized press downtime due to real time measurement

- Ecological production provides**
- + Reduction of wastepaper
  - + Reduction of ink consumption
  - + Reduction of energy consumption

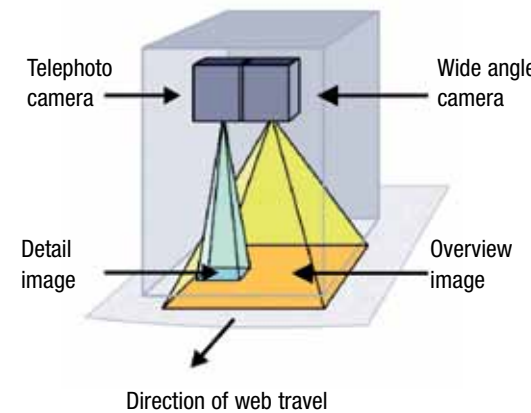
- The bottom line**
- + Less waste
  - + Less CO2 emissions
  - + Energy savings

**ELSCAN dualView technology**  
Two cameras in one system

ELSCAN dualView includes two cameras in just one measuring head, mounted on a motor driven crossbeam. One camera provides the total overview, the second offers finest details. The two views are realized each with its own monitor. Due to the integration of two monitors, you always see both: the overview and the details. Maintenance of the camera unit is not necessary because there are no moving parts.

**Your benefit**

- + **Time saving**  
Due to the combination of two cameras in one measuring head with the total overview and the details, time consuming zooming is not necessary.
- + **Easy-to-use tailor-made functions**  
Operate more conveniently, using a system that thinks ahead. Upgrade your operation and display system according to your demands and requirements and operate your ELSCAN dualView with only a few clicks without leaving your control panel.
- + **Reduction of wastepaper**  
Via parallel display of detail and overview a constancy is achieved by prompt analysis of the measurements and the opportunity of a fast reaction of the printer to make adjustments. As a result, the print quality is improved considerably. The positive side effect is the reduction of wastepaper.

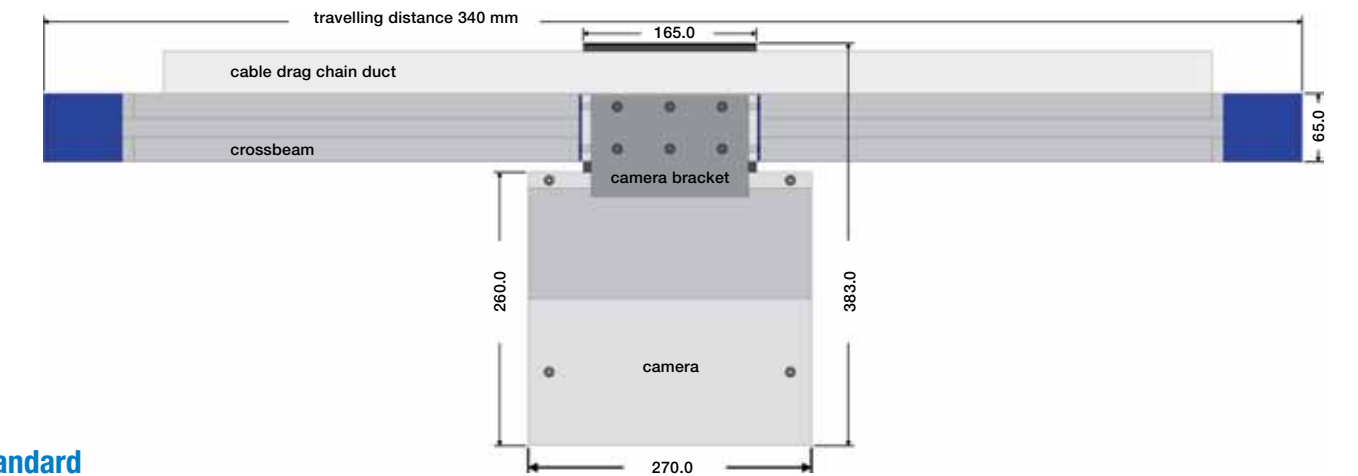


**Highlights**

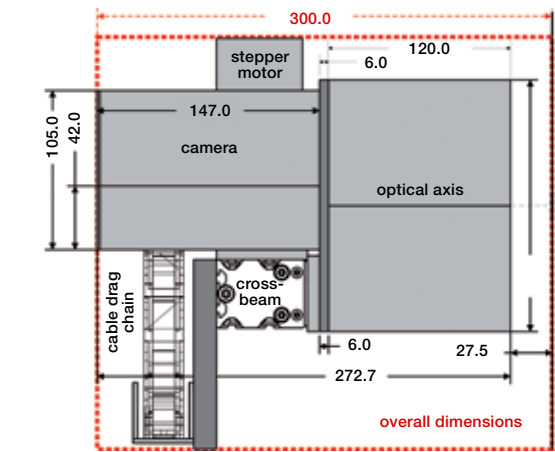
- + One-click for details. Without optical zoom and without resolution loss!
- + Compact construction of the measuring head, which allows an integration also in the smallest spaces in different printing machines
- + 2 monitors - one monitor for the total overview and one monitor for the details
- + Multi-image - a full image is composed out of single images without loss of resolution
- + Storage of camera positions with thumbnails for fast image selection
- + Low-maintenance LED illumination unit due to a long operating life, which enables much higher frame rates than conventional flash lamp illumination units
- + Job image - storage of job images
- + Combination with a trigger-camera for determination of the zero point as a guide for the printer and for automatic positioning at repeated jobs
- + Configuration with special flash illumination for various optical effects like lacquer, embossing, holograms and more
- + Combine dualView within our print management for your printing machine. ELSCAN dualView as key element enables the control of our ELPRINT spectraCon by setting the required measuring points of the spectral color measurement. Due to the saving of the viewing camera, which is supplied as a standard component with ELPRINT spectraCon, the combination of these two systems can be provided as an economically attractive and powerful overall system.

# ELSCAN dualView - dimensions

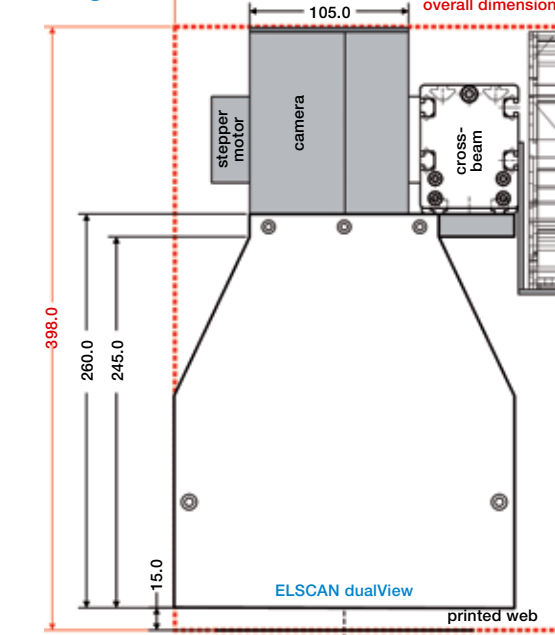
**Crossbeam**



**Standard**



**Large**



**XLarge**

