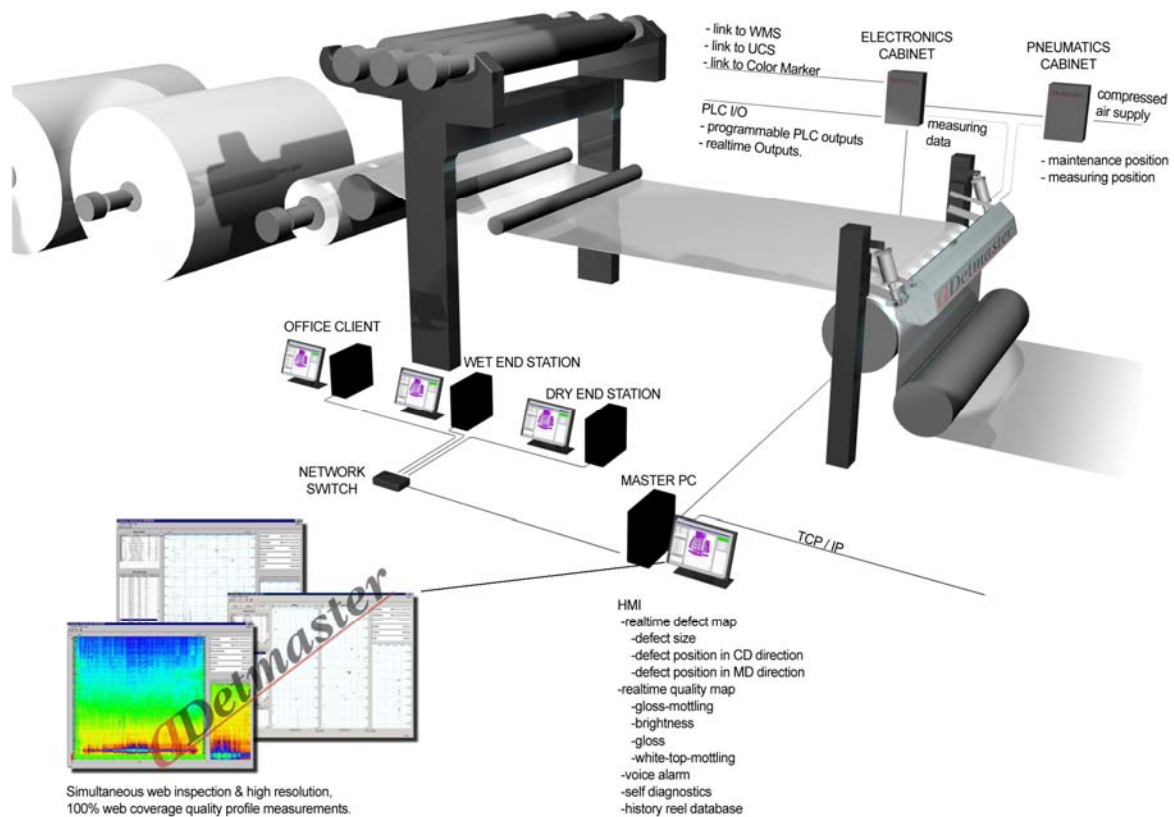


# DETMASER PR-SERIES

WEB INSPECTION SYSTEMS FOR PAPER / BOARD INDUSTRY



## OVERVIEW

The patented Detmaster PR - series provides brand new high performance solution for paper and board processing lines:

- Blade streak, nozzle streak, butterfly, coating skip, etc. extremely low contrast defect detection
- Optional paper quality measurements such as gloss, brightness, gloss-mottling, white top mottling, etc.
- Simple and compact system structure

Detmaster PR utilizes new and unique multi angle illumination technology that provides enhanced defect detection capability for paper and board applications. The system comprises efficient dark field and bright field illuminations integrated in the inspection beam thanks to the exploited multi-channel illumination method.

All Detmaster systems have been developed in close co-operation with paper and board manufacturers. As a result, superior detection and measurement accuracy, system reliability and low cost of investment and maintaining are available in just one system - Detmaster.

## TECHNICAL SPECIFICATIONS

<b>Performance</b>	
Detected defect types:	Blade streak, Nozzle streak, butterfly, coating skip, etc.
Minimum width of detected streak:	0,1 mm
Minimum detected hole size:	1,0 mm <sup>2</sup>
Minimum detected spot and impurity size:	1 mm <sup>2</sup> (for black spots and impurities)
<b>Applicability</b>	
Line speed:	0 - 3000 m/min
Web width:	No limitations
Type of measurement:	Multi-angle optical reflectance measurement
<b>Detector Beam</b>	
Sensors:	Multi channel detector modules with high purity silicon PIN photodiodes and DSP signal processing (DSP-processor).
Reflectance illumination:	Integrated dark field and bright field LED illumination. Illumination modes implemented by frequency division method.
Cleaning and cooling:	Automatic with low pressure air
Distance from web:	50 mm
<b>Power supply</b>	
Power consumption:	200 W/m, voltage 110 – 240 VAC, 43 – 60 Hz
<b>User Interface</b>	
Hardware:	PC, 22" LCD Color Display, Mouse + Keyboard
Software:	Windows based including defect maps, defect type and location listings, trends, historic data, self-diagnostics, alarms, user defined threshold levels
<b>Mill interface</b>	
Isolated digital outputs:	10 user definable
Isolated digital inputs:	8
Mill way connections:	TCP/IP (optional)
Analog outputs:	4CH 0 - 10 VDC 4 / 20 mA (Optional)
<b>Dimensions</b>	
Space requirements:	MD: 500 mm, above web 650 mm, for single-side installation MD: 500 mm, above web 650 mm, below web 650 mm for double-side installation
Electronics cabinet:	H 1000 mm, W 600 mm, L 250 mm
<b>Standard Operating Environment</b>	
Operating temperature:	+10 °C - +50 °C
Humidity:	30...90%, non-condensing
<b>Options available</b>	
Various types of integrated optical paper quality measurements:	E.g. gloss-mottling, brightness, gloss, white top mottling.

The data listed herein falls within the normal range of product properties but they should not be used to establish specification limits or used alone as the basis of design. Because SR-Instruments cannot anticipate or control the many different conditions under which this information and/or product may be used, it does not guarantee the applicability or the accuracy of this information or the suitability of its products in any given situation. Users of SR-Instruments' products should make their own tests to determine the suitability of each such product series for their particular purposes. Product samples are tested at SR-Instruments application center free of charge. For product sample testing, please contact our sales (sales@sr-instruments.com) or refer to document no WI47000 ("Sending samples to be tested").