



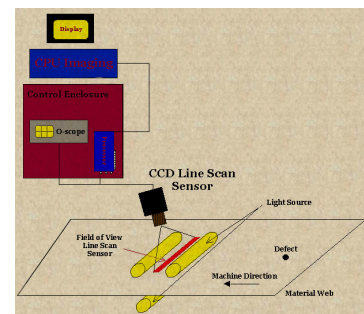
Maximize Profitability

Undetected defects often result in excessive costs, customer returns, repairs to sensitive equipment, and machine downtime in today's high end high web based material manufacturing. This is ever more apparent in specialized products like magnetic media, solar and fuel cell technologies. The Model 9000 MicroSpec® Web Inspection Technology provides real time detection and categorization of minute holes, microscopic pit-form (block spot), cracks, dirt, blemishes, cyclical embossments and any other autonomous type impurities or defects. The Model 9000 MicroSpec® Web Inspection Technology helps maximize the profitability of your manufacturing process by providing production, maintenance, and setup personnel with immediate notification of critical defect faults.

Detect and Categorize All Impurity Defects

The Model 9000 MicroSpec® Web Inspection Technology uses an array of high speed CCD Line Scan cameras and custom designed lenses. The sensors are usually positioned with small fields of view, approximately 6.35 mm, cross direction. Each sensor has a proprietary light enhancement module designed to illuminate and enhance the area of inspection so that the defects pop with significantly higher signal to noise ratios than conventional systems like laser or photocell can provide. The electronic signal is then processed in patented RKB noise reduction circuitry providing unprecedented performance in a single web inspection system.

TECHNICAL SPECIFICATIONS	
Defects Types Detected:	Pit-Form Cyclical Embossments Cracks Holes Dirt
Minimum Detectable Defect:	1 micron
Maximum Web Speed:	10,000 ft/min. (3,048 m/min) No Limit Streaks
Basis Weight Range:	Subject to Tests
Material & Color Range:	Subject to Tests
Line Scan Cameras:	1024/2048
Type:	Proprietary Lens
Lens Focal Length:	0.25" or larger
Field Of View (FOV):	up to 40 MHz
Maximum Data Rate:	Depending on Lens Used
Pixel Resolution:	
Material Color Range:	Proprietary Proprietary Lens 0.25" or larger Depending on Lens Used
Illumination:	Unlimited
Ambient Temperature:	Proprietary
Power:	40 to 160° F (4 to 70° C)
Specifications are subject to change without notice.	



Defect Detection Methodology



R.K.B. OPTO-ELECTRONICS, INC.

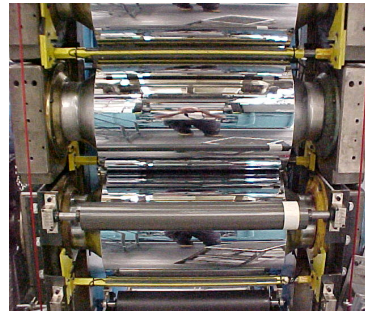
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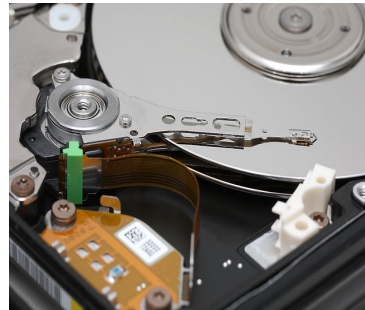


Span The Entire Web

Each Model 9000 MicroSpec® Web Inspection Technology is designed to span the entire web width for 100% inspection of the web material. Now products can be fully qualified prior to shipment to customers. Our QAMS® Quality Assurance Management System software is also included with each system to provide complete data collection, analysis, reporting, setup, and diagnostic capabilities.



**Calendar Used in
Magnetic Media Production**



**Magnetic Media Converted
to Mass Storage**

Call RKB

Call us to discuss your inspection requirements and to learn more about the industry's most cost effective and reliable online microscopic detector in the world.



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