



Nonwovens & Technical Textiles

Your benefits from Dr. Schenk's unique solutions

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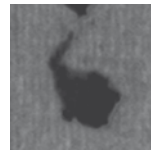
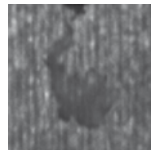
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The Inspection Expert

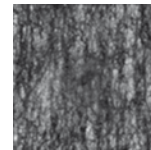
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1. ABI - Adaptive Background Illumination

The unique Dr. Schenk ABI Technology removes background noise originating from the inherently irregular material surface of nonwovens and technical textiles.



Same defect as seen with a conventional system (left) and Dr. Schenk ABI (right)



Same defect as seen with a conventional system (left) and Dr. Schenk ABI (right)

Dr. Schenk ABI adds a transmission inspection channel to the conventional reflection set-up, returning high-contrast defect images. ABI can be adapted to any material.

Your advantages from ABI are:

- No false hits & significantly improved defect detection & classification
- Better material quality information
- Combinable with Virtual X-Ray

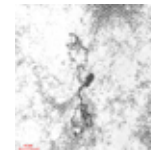
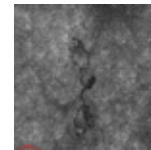


2. Virtual X-Ray - LED illumination for optimum inspection results

Unaffected by background noise, Dr. Schenk Virtual X-Ray perfectly detects and distinguishes e.g. small foreign material inclusions and neps.

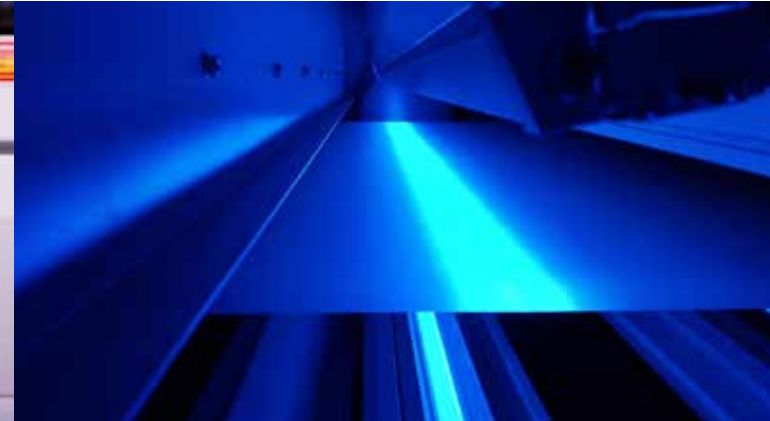
Your advantages from Virtual X-Ray are:

- Best detection & classification of defects on front and back of material, as well as within
- Intelligent, closed-loop fluid cooling guarantees uniform light intensity and very long LED lifetime
- Competitive advantage



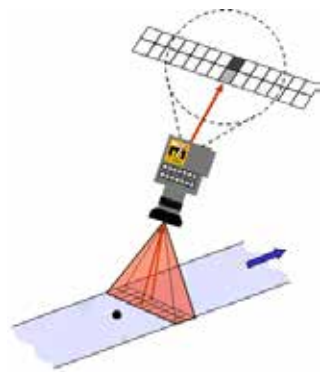
Same defect as seen with a conventional system (left) and Dr. Schenk Virtual X-Ray (right)

The high-power LEDs of Dr. Schenk Virtual X-Ray ensure clear defect images with an unparalleled signal-to-noise ratio.



3. Ultra-fast TDI cameras with CMOS technology

Dr. Schenk TDI cameras offer the unique combination of high resolution defect images with superior down and cross web resolution - particularly at high production speeds.



Defects are picked up twice for optimum detection

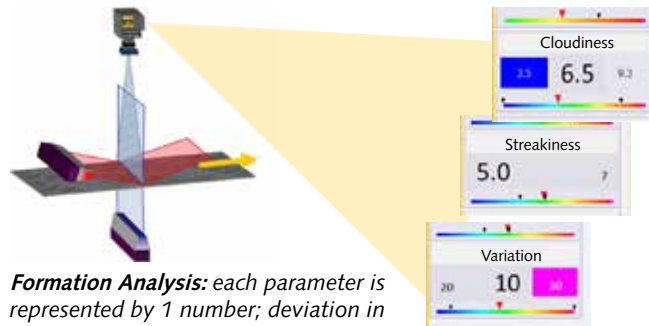
Your advantages from Dr. Schenk TDI cameras are:

- Optimum defect detection
- Highly improved sensitivity (especially for low-contrast defect detection)
- Facilitation of high-speed production



4. Formation Analysis & Grammage Monitoring

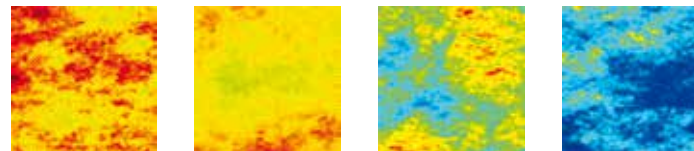
Expand Dr. Schenk EasyInspect for local defect detection with EasyMeasure for complete material quality control through formation analysis and grammage monitoring.



Formation Analysis: each parameter is represented by 1 number; deviation in this number equals material variation.

Your advantages from formation analysis & grammage monitoring are:

- Performed over the complete material width for optimum process & quality control
- No additional hardware required, thus keeping investment low

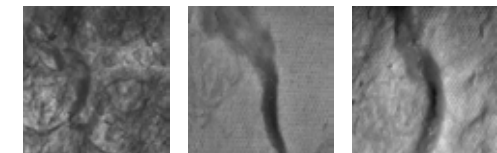


Grammage monitoring

EasyMeasure false color value grammage maps of material grammage 14 g/m², 25 g/m², 60 g/m² and 70 g/m² (from left to right) show inhomogeneities in great detail. Thin areas are shown in yellow, very thin areas in red, thick areas in blue.

5. MIDA - Multiple Image Defect Analysis

Dr. Schenk MIDA reveals defects more clearly and with greater detail by combining different viewing angles - in a single camera row.



Same defect as seen with a conventional system (left) and Dr. Schenk MIDA (middle & right)

Multiplexing between different illumination sources, MIDA enables joint use of Virtual X-Ray's high-intensity illumination and ABI's adaptive background illumination.

Your advantages from MIDA are:

- Savings in required line space
- Reduced investment
- Improved detection & classification

