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.

Your advantages from ABI are:

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

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.

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

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.

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.

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.

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