

SPECIM RETEX

AI-POWERED TEXTILE RECOGNITION



ADVANCING INTELLIGENT TEXTILE RECOGNITION

Specim RETEX combines hyperspectral imaging and AI to accurately identify textile materials, including complex blends and impurities, enabling automated material separation and scalable textile processing.



Accurate material identification



Real-time automated processing



Scalable from lab to production

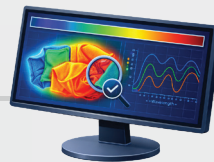
Hyperspectral Imaging Meets AI



Illumination



Hyperspectral camera



AI analysis



Material separation

Hyperspectral data enables AI-driven material identification beyond conventional vision systems.



FLEXIBLE ARCHITECTURE FOR EVERY STAGE

From AI development to full-scale production, Specim RETEX scales with your application.

Specim RETEX Variants

RETEX Core

AI Software platform for textile recognition

RETEX Lab

Hyperspectral textile analysis & AI-assisted classification for R&D and validation

RETEX Modules

Hyperspectral and AI components for textile recognition and processing – designed for OEMs, integrators, and research use

RETEX System

Scalable industrial solution for textile processing and material separation

Designed for integration and scale

Designed to integrate into existing processes without system redesign. Supports automation, industrial systems, and data-driven operations.

- ✓ **Material identification and separation**
- ✓ **Quality control**
- ✓ **Textile classification and analysis**
- ✓ **Circular economy**

Proven in industrial use

- ✓ **High-accuracy material recognition**
- ✓ **Real-time processing in production environments**
- ✓ **Scalable textile processing operations**

High-accuracy material recognition

- ✓ **99% cotton**
- ✓ **98% polyester**
- ✓ **99% polyamide**

Recognizes blends (e.g., polycotton), wool, elastane, and other textile materials. Covers over 95% of common textile materials.

