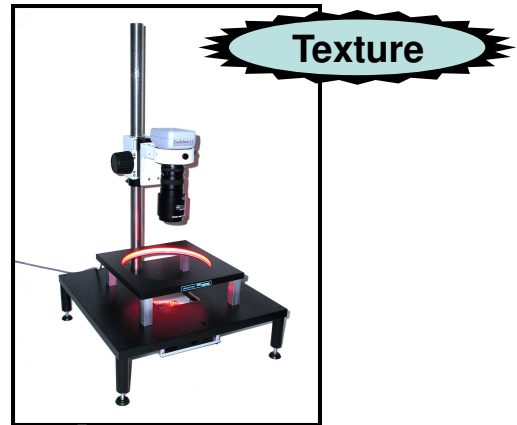
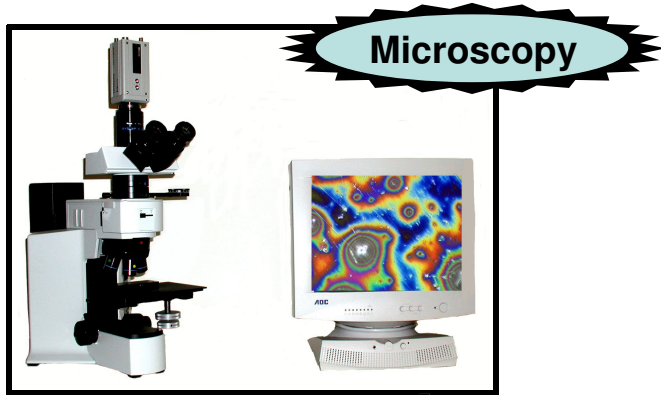


MatchIT Digital Inspection System

Color and Texture-Based Optical Inspection

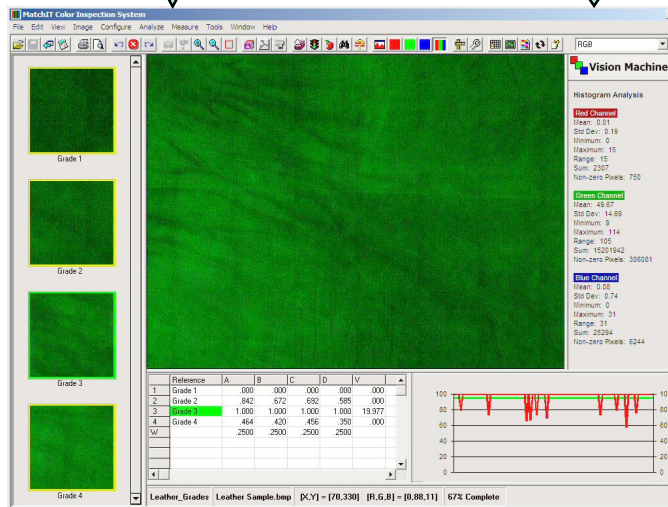
Classification	Image Matching	Defect Detection
Verification	Texture Analysis	Measurement
Grading	Database Retrieval	Color Proofing

MatchIT—The Next Generation in Color-Based Automated Inspection!



Quality Control Software

SDK Available



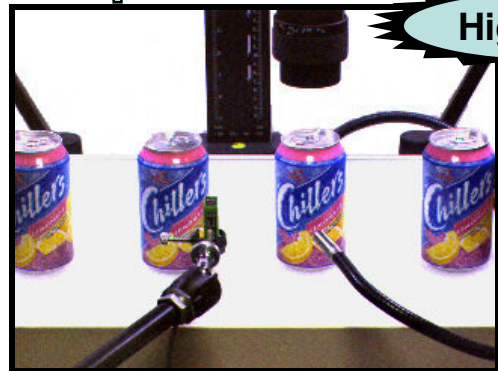
Complete Appearance Analysis

**Train and Go
No Programming!**

Color



High-Speed



MatchIT Specifications

Models	Series 100: Microscope; Series 200: Light Box; Series 300: Camera Stand; Series 400: Online Choice of camera, optics, and lighting within each series
Sample Types	Single color, multicolor, textured, patterned
Camera	Color: 3-CCD or 1-CCD RGB, tristimulus response Numerous analog and digital models available
Lens	10X zoom, field of view range 0.3 to 11.0 inches Optional fixed focal length (various fields of view)
Light Box	20" x 13" x 13" Light Box, diffuse fluorescent illumination with optional SoLux [®] artificial daylight, 10" x 12" imaging platform, selective light control, optional motorized platform or 19" x 15" x 14" Light Box, diffuse 5000° K fluorescent illumination with 5 independently dimmable light banks, 11" x 16" imaging platform, large removable access door
Camera Stand	Adjustable benchtop camera stand, 24" L x 24" W x 36" H, integrated illumination, optional black aluminum enclosure
Microscope	Olympus BX-51 industrial microscope, 50X objective, 100W tungsten halogen illuminator, bright-field cube with cross-polarizing filters, Spectralon diffuse reflectance target
Processor	Intel Pentium 4, 3.0 GHz
Operating System	Windows 2000, XP Professional
Image Capture	FireWire, TWAIN, analog frame grabber
Measurement Time	< 200 msec typical
Color Resolution	16,777,216 (24 bit RGB)
Calibration	Color chart (reflection), color filter set (transmission)
Display Mode	1024 x 768, 32-bit (True Color)
Number of Training Sets	Unlimited
Maximum References	256 per training set, 10 samples per reference
Color Spaces	RGB, HSI, LAB
Software	MatchIT Color Analysis (Win32 or SDK)
Analysis Functions	Color matching, texture matching, classification, verification, defect detection, color and texture measurement

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