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Intercontrôle

STITCHING

Advanced Software Solution for Optimal and Safe Visual Inspections (VT)

STITCHING enhances the reliability of your visual inspections, reduces human errors, and significantly boosts productivity.



Challenge

Standard TV data analysis is performed by observing a screen that displays an area only a few square millimeters in size, in search of even smaller indications. Even when inspecting a limited surface, several hours of continuous image flow require the analyst to maintain constant focus to ensure detection sensitivity.

Solution

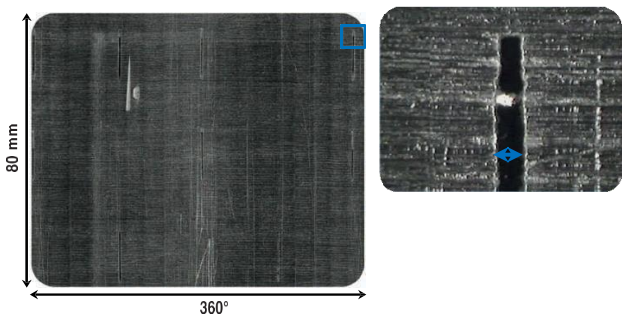
STITCHING is a patented software designed to make visual inspections (VT) faster and more reliable by automatically transforming a video sequence into a very high-definition panoramic image, without sensitivity loss.

With an intuitive interface inspired by navigation tools like Google Maps, STITCHING enables smooth and fast image exploration, free zooming, and immediate visualization of the entire inspected area.

This approach reduces operator fatigue, secures analysis by minimizing human bias, and allows more precise extraction of even the smallest defects, such as micro-cracks just a few micrometers wide, regardless of their position in the image.

Customer benefits

- Compatible with various video inspection systems (constant speed or encoders)
- Increased reliability, with sensitivity maintained even at scrolling speeds up to 100 times faster
- Panoramas generated from video sequences
- Automatic generation of complete C-Scans



Technical Features

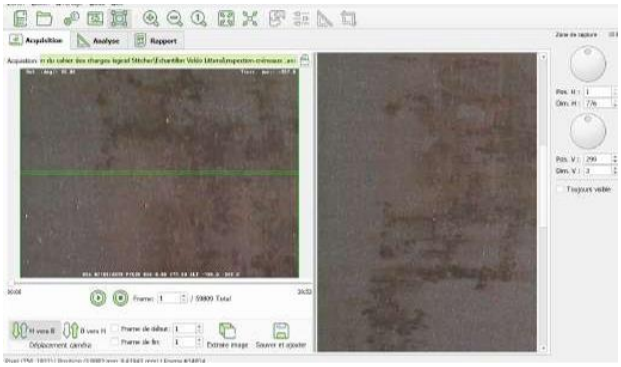
- Customizable extraction window for targeted analysis
- Accelerated playback from x1 to x1000 relative to acquisition speed
- Automatic report generation including images, measurements, and comments
- Detection assistance tools (histograms, contours, etc.)
- Brightness/contrast adjustment tool
- Intuitive Human-Machine Interface with real-time tracking
- More accurate sizing (±10%)

Delivery and deployment

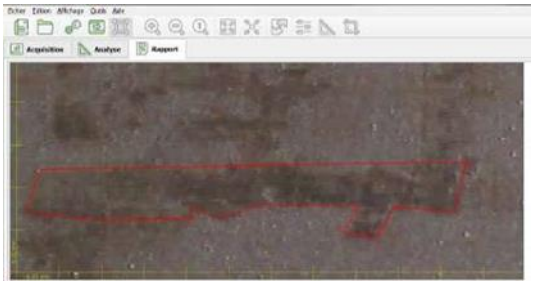
- USB license key + software (no installation required)
- Includes manual, calibration block, and training videos
- Compatible with Windows 10 (2 GHz CPU, 8 GB RAM recommended)
- File management up to 4 GB
- USB cameras (DirectShow)
- Compatible with TTL-output encoders (Transistor-Transistor Logic)

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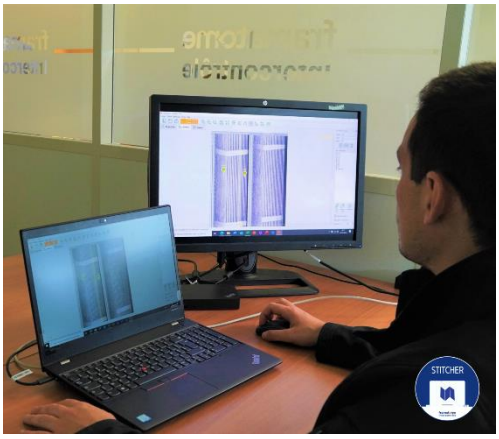
An intuitive HMI (Human-Machine Interface)



Visualization of an inspected area within the Stitcher interface, with real-time camera tracking



Complete defect reconstruction by the software, with integrated lighting correction and measurement tools



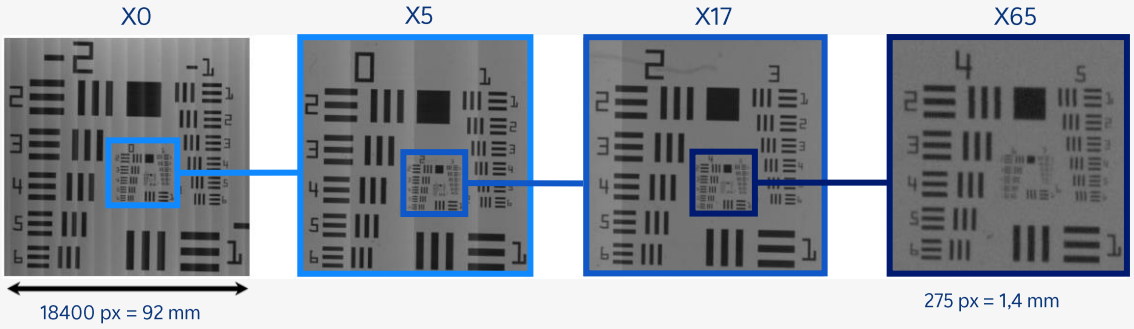
MORE THAN 15 VIDEO FORMATS SUPPORTED	
AVI	H.264
MKV	VFW
MJPEG	ffdshow
MP4	WMA
MOV	WMV
XVID	...

4 TYPES OF MOVEMENT
Linear
Step / Comb
Helical
Axial

LIVE ACQUISITION		
USB	RTSP	PAL

Application cases

Full-scale image of a USAF 1951 resolution test chart, with successive zooms on the most resolved elements:



Full-scale reconstruction of an indication by stitching, with correction of lighting inhomogeneity and aberrations:



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