framatome

STITCHING SOFTWARE (VT)

Software program for reconstruction and restitution of a panoramic image using videos from a televisual inspection.

Making Televisual Inspection reliable and simple

Challenge

Standard analysis of televisual data is performed by observing on a screen a vey small size zone, about a few mm², searching for indications of even smaller size. Even when inspecting a small surface area, images scrolling during several hours may be produced, forcing the analyst to remain constantly concentrated to guarantee the detection sensitivity.

Solution

To enhance reliability and to speed up the inspection, Framatome developed and patented a software program allowing the movie acquired to "be unfolded" without sensitivity loss in a very large-size and unique image, on which it is possible to move and to zoom, in the same manner as in Google Maps.
It is also easy to size indications and to extract images of these indications whatever be their size and their position in reconstituted image.
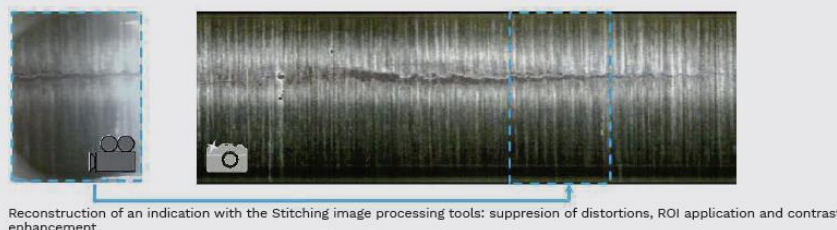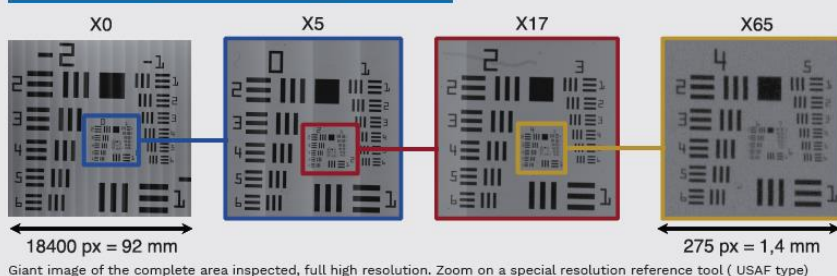

Some examples of NDT applications

X0   X5   X17   X65

18400 px = 92 mm   275 px = 1,4 mm

Giant image of the complete area inspected, full high resolution. Zoom on a special resolution reference tool (USAF type)

Reconstruction of an indication with the Stitching image processing tools: suppresion of distortions, ROI application and contrast enhancement

Technical information

• Reconstruction without any loss of data and resolution

• Analysis tools available (zoom, distance measurement, inspection report print-out)

• Compatible with many video formats (plugin system - H.264, MJPEG, MPEG, AVI…)

• Easy and intuitive MMI

• I/0 File size up to 4 G bytes

Customer benefits

• Creation of a unique C-Scan image corresponding to the complete area inspected

• Conservation of the qualified performances

• Drastic reduction of analysis duration

• High Quality image (suppression of distortion and aberrations)

• Decreased size of the data storage file

• Fully compatible with mechanized/ automated inspection

• Upgradable by available software options (Automatic Evaluation, real time data acquisition)

Your performance
is **our** everyday **commitment**

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