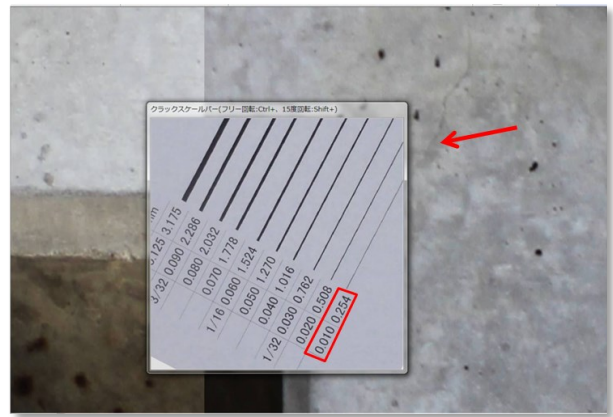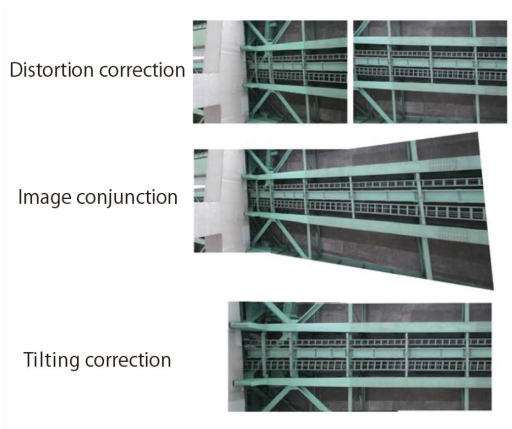# Kuraves

What is Kuraves?

Kuraves is an image processing and crack detection platform able to manipulate both infrared and visual images at the same time, synchronizing them to create layering of different data. Results can be overlaid on CAD drawings, maps, and diagrams. Thermal data within IRT files can be directly edited. It is particularly useful for buildings, bridge components, tunnels, and cut slopes.
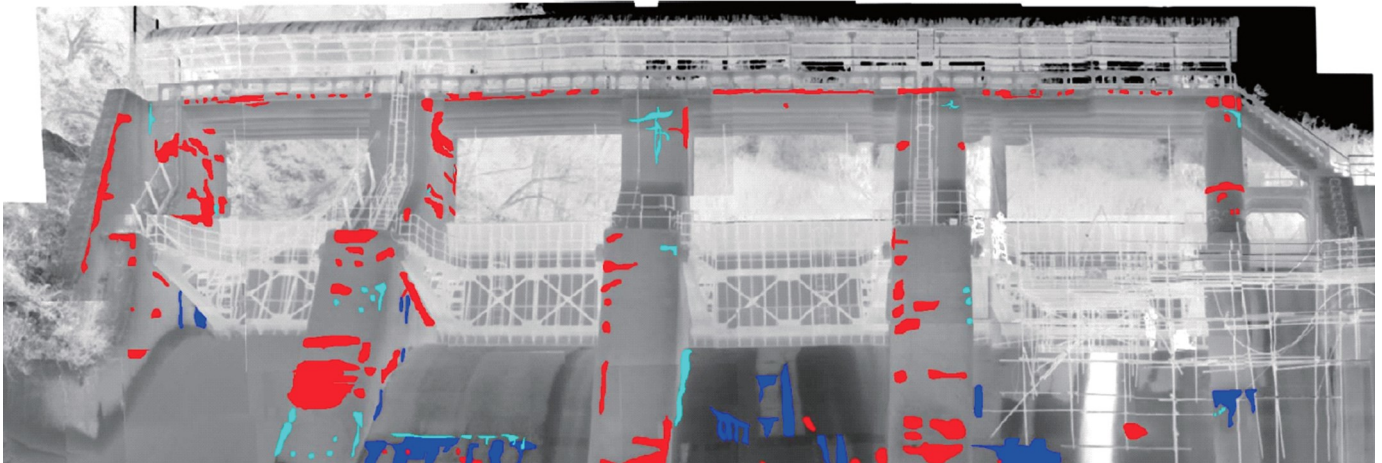
Distortion correction

Image conjunction

Tilting correction

Benefits of using Kuraves

Kuraves excels in stitching large quantities of images taken in succession. It has two separate stitching functions to enable a quick and accurate means of capturing an entire structural surface into one scaled composite image.

Advanced orthographic image correction compensates for images taken at an angle in respect to their target surface.

Accreditations

The resolution of raw data is preserved, and therefore the resulting processed data may yield about a 0.5mm=1 pixel ratio. Minimum detectable crack width can range from 0.004" at up to 100ft away from the target, to 0.02" at 330ft away.

The analysis resolution exceeds most criteria set by asset owners including the American Association of State Highway and Transportation Officials (**AASHTO**), who prescribe a 0.01" minimum detectability for pre-stressed concrete cracking.

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