

Traditional

- Sketch crack locations by hand
- Long and tedious labor hours
- Surprises from hidden water infiltration
- Take trips back and forth from the site



NEXCO Technology

- Map crack location and information
- Broad surface areas captured
- Proactive decision-making
- Have offsite access to comprehensive records



Benefits

How does this technology benefit buildings, stations, and more?

Inspecting cracks and leaks is hard on its own, but maintaining useful and accurate records on them is even harder.

NEXCO's visual and infrared imaging methodology improves upon conventional inspection practices so that the tedium of deficiency detection is no longer a hinderance to effective structural maintenance.

The use of high definition visual and infrared imaging to find and quantify deficiencies in structural surfaces. Storing comprehensive reports and records to make maintenance planning easier!



The Technology

The Automatic Camera System (ACS) and Universal Surface Scanning System (U3S) are perfect applications for taking imagery of dam walls. Both of the platforms can use very high resolution digital cameras to take a picture of the target wall, then integrate the pictures into a map of deficient findings. The map is scaled and can be used to detect cracks at varying resolutions (from 0.2mm and up).

Applications

NEXCO supplied the ACS system for a large dam owner so that they may monitor crack propagation over time. The U3S system imaged a set of retaining walls and proximate tunnel surfaces to map water infiltration and major cracking.

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