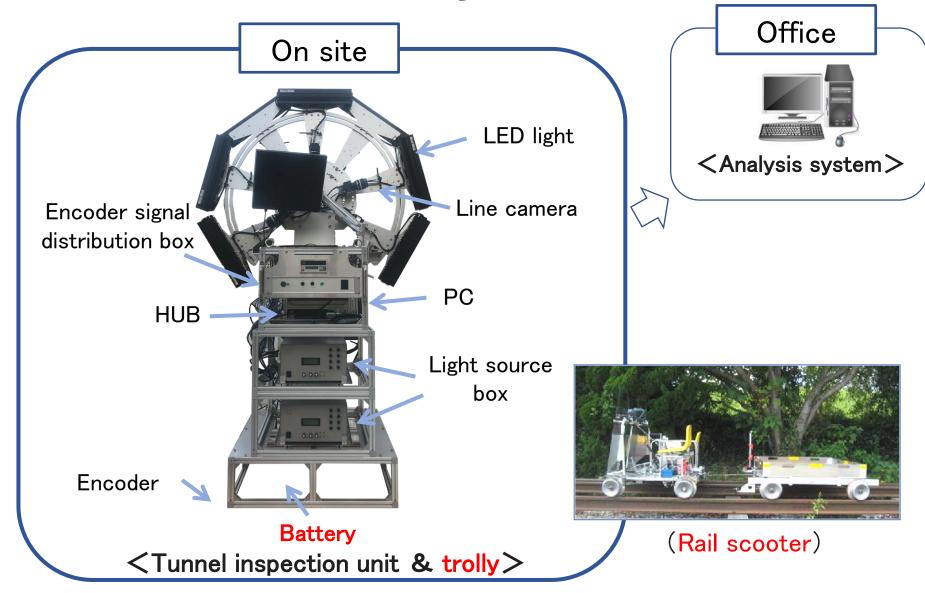


Tunnel Scanner TM-270

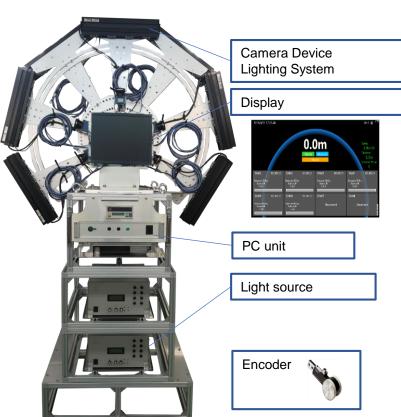
Features

- Wide range scanning
 Both single line and double lines are applicable to scan.
- ➤ Various speed for measurement Hand-pushing trolley (Up to 20km/h).
- Easy to assemble, run and remove within limited working time. Easy to hand carry the unit and short-time assemble it on site.
- High definition image High definition camera and encoder capture high resolution wall image with various speed.
- A lot of know-how inside of our "Kuraves-Actis" software contribute the measurement of crack and other defect, then create deficiency map.

Unit system



Specification



	Tunnel Scanning System TM-270	
Camera device	High resolution color line camera	
Camera (TTL300 degrees)	7	
Lighting system	Lighting system LED Light	
Transversal resolution	1mm/pix	
Travel direction resolution	1mm/pix	
Survey speed	Walking speed (Up to 20 km/h) *	
Acquisition	Trigger mode (Encoder) *Speed sensor mode is available as an option	
Power	Maximum 1.7kW * *Vary depend on the configuration	
Tunnel shape	Maximum tunnel height by approx. 7.5m	

Example of use

Single-track

*7 pcs cameras (300 degree photographing)



Multiple-track

* 4 pcs cameras (180 degree photographing)



Processing Flow



Pre-work

2. Assemble



3. Taking photo

On site



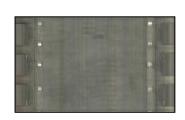
4. Bring data to the office



Office

5. Data Analysis







Span image

- Long correction
- Multiple image correction
- Color correction
- Output image of span unit

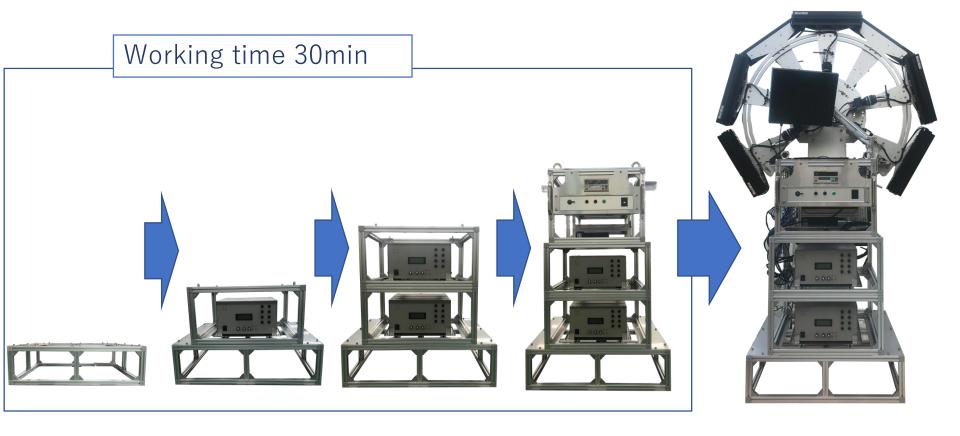
Deficiency Map(Lined image)

- Tilt correction
- Deformation
- Image synthesis
- Output the living image

Abnormality analysis

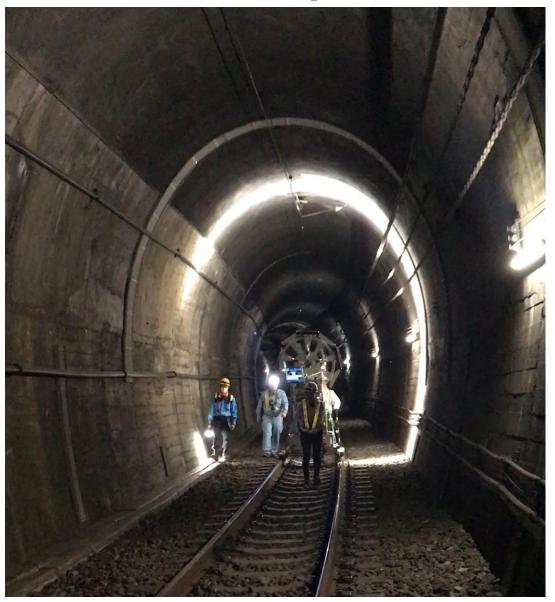
- Extraction and drawing the crack
- CAD output the damage data (Crack location map)

Assemble



5 STEP!

On site inspection

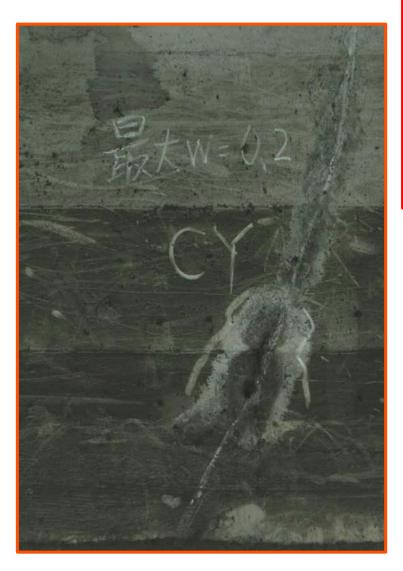


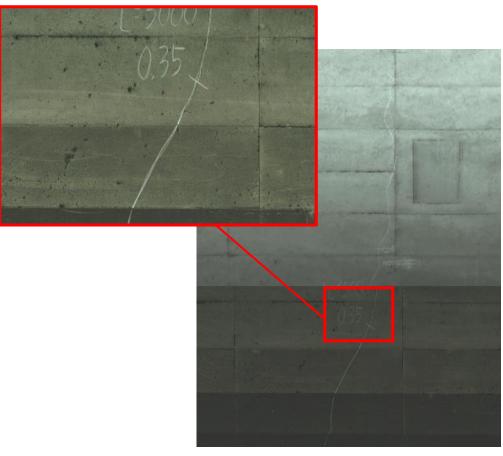
Scanning Software



Easy to confirm the overlap.

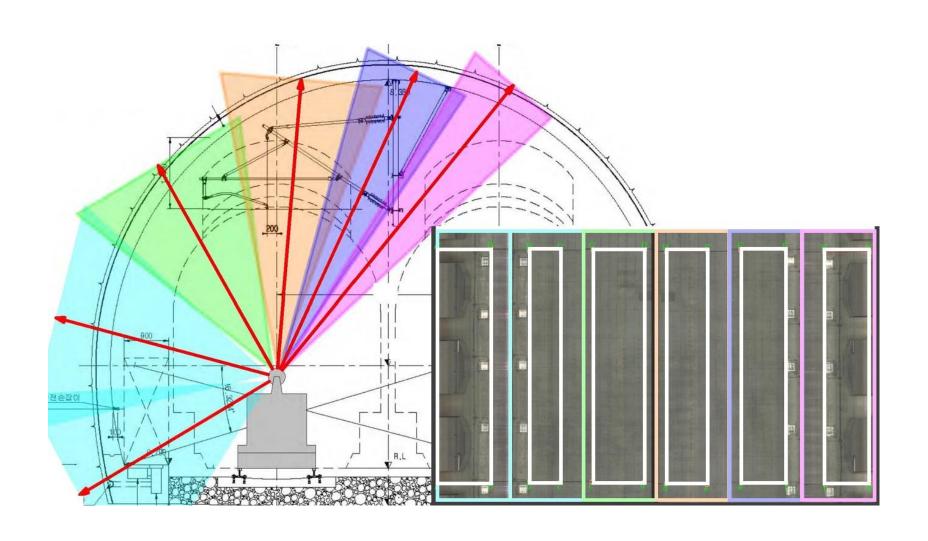
Scanned data



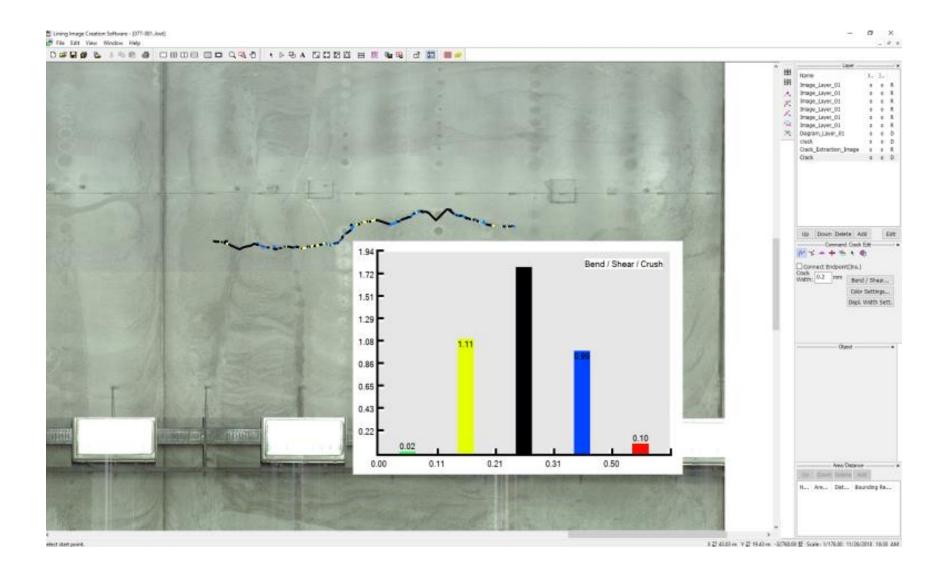


Available for taking photo 0.1mm crack!

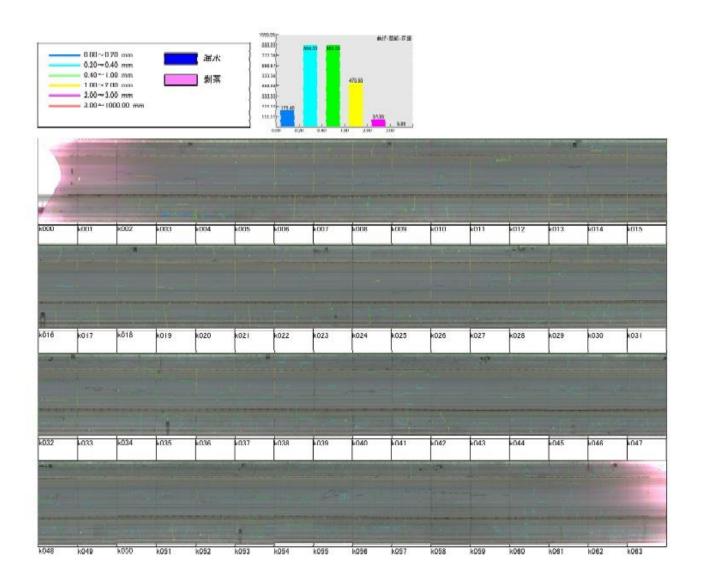
Create Tunnel Lining Image



Data Analysis

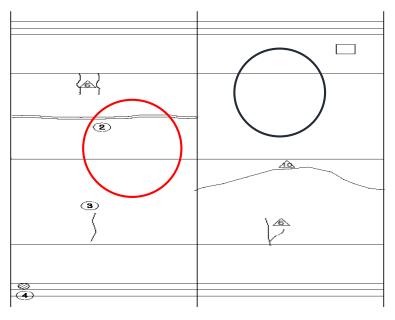


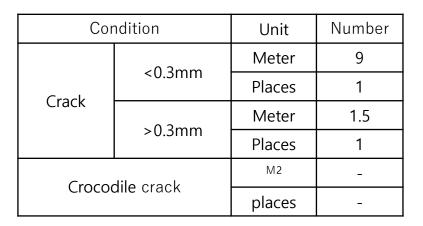
Deficiency Map



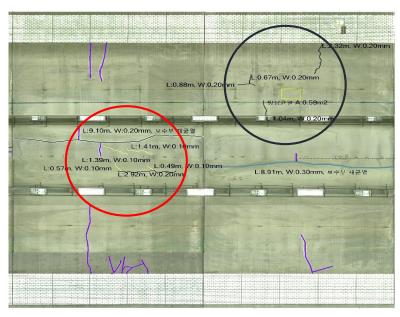
Case Study

Traditional report





Tunnel scanner's report



Condition		Unit	Number
Crack	<0.3mm	Meter	20.79
		Places	10
	>0.3mm	Meter	8.91
		Places	1
Crocodile crack		M2	0.59
		Places	1