

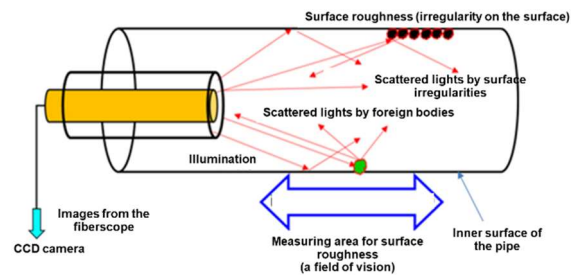
Modification of PipeEndoscope: Non-destructive Inner Surface Inspector

1. The new PipeEndoscope

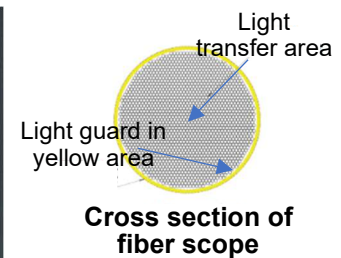
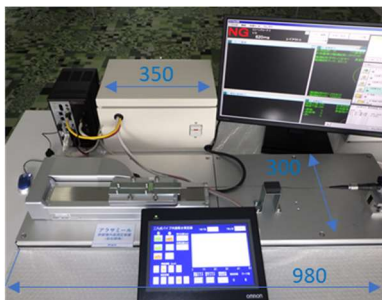
The introducing of the PipeEndoscope brought great response for the world first non-destructive inner surface inspector for a small pipe using an extra thin fiber scope having the diameter of 0.35 mm. Since the announcement in last year, we have accumulated the measuring knowhow to improve the measurement performance through the in-house production of pipes.

2. Modified specifications

- Totally ten curves are displayed in the graph on the display (photo on the middle below) for easily checking of the dispersion of a measurement results.
- The measurement accuracy is improved using AI recognition.
- The measuring time is twice as fast as a previous one. (1 second per pitch)
- Fiber scopes: 0.35, .05, 0.9, 1.2 mm in dia.
- CCD camera resolution: 300,000 pixels
- Pipe length: 200 mm at max.



Basic principle
(Patent pending)



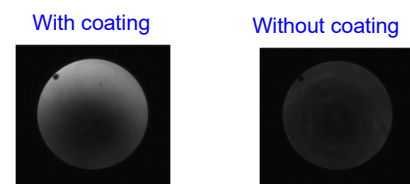
Cross section of fiber scope

3. Measuring examples

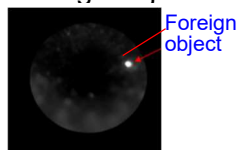
a. Polished inner surface



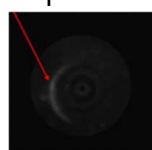
e. Coating



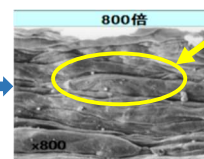
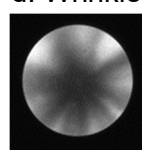
b. Foreign object



c. Spiral scratch



d. Wrinkles



※ Cause of contamination
Wrinkles on the surface
can remain
contaminants.

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