

Checking the repeatability of height measurements when using an indicator



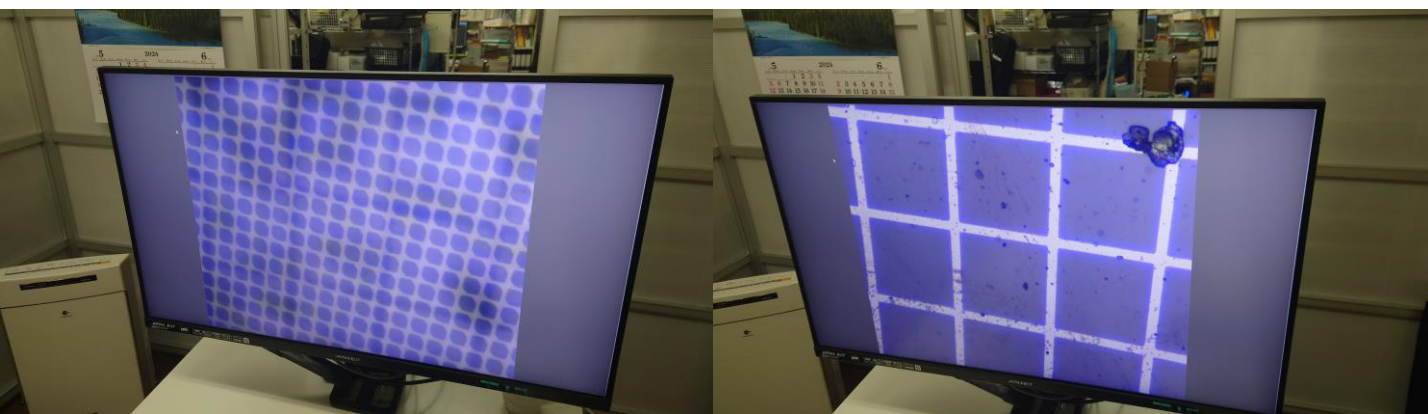
Equipment

Ultra High magnification USB  
Microscope

NSH500CSU

[https://www.shodensha  
inc.co.jp/ja/nsh500csu/](https://www.shodensha.com/ja/nsh500csu/)

We confirmed the repeatability  
of the measurement results  
(height difference) when two  
glass scales were stacked and  
focused on the squares of the  
two glass scales.



Repeatability

at about 250x : about  $\pm 8 \mu\text{m}$

at about 500x : about  $\pm 7 \mu\text{m}$

at about 1000x : about  $\pm 4 \mu\text{m}$

The higher the magnification, the better the repeatability.  
It depends on the required accuracy, but a magnification of  
1000x is necessary.