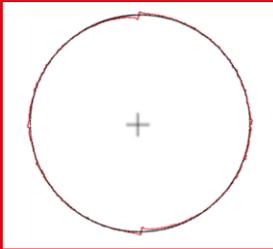
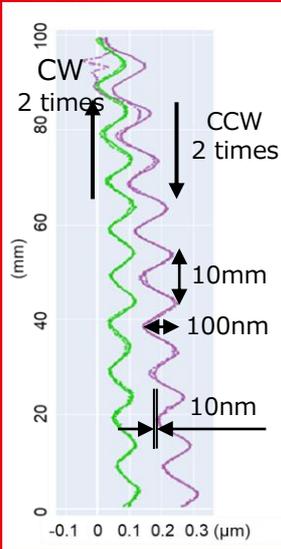


## The 2D enables to show what you couldn't see



Example of Roundness Measurement



New Standard for Accuracy Evaluation of Precision Stage

# SET-SC2020

High Resolution, High Frequency

**Resolution 10pm**

Sampling Frequency 10kHz

Enables high accuracy measurement equivalent to an interferometer, with no atmospheric effect.

**Cumulative Accuracy  $\pm 0.5\mu\text{m}$**

( Effective Scale Length 200x200mm )

Uses zero expansion glass, unaffected by ambient temperature

**Thermal Expansion Coefficient**

$0.1 \times 10^{-6}/\text{C}$

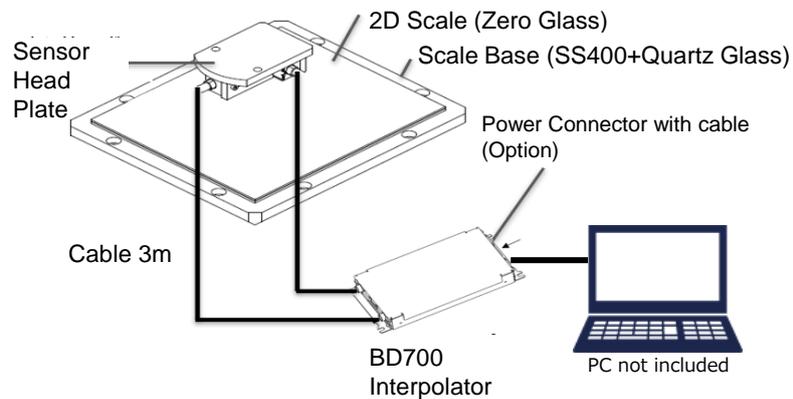
Greater working distance of sensor head enables easy installation. Also enables vertical installation.

Distance between the sensor head and the scale

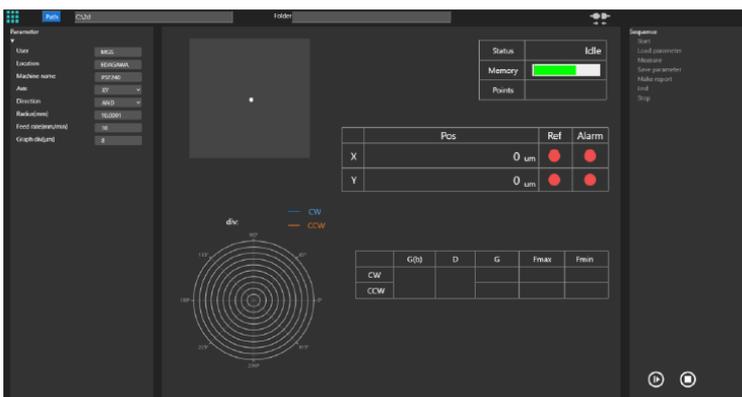
**$2.9\text{mm} \pm 0.2\text{mm}$**



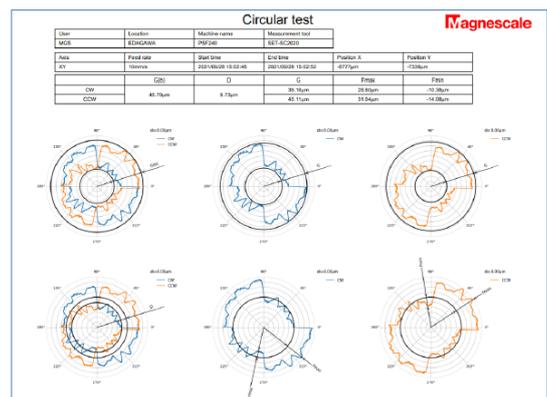
## System Configuration



## Sample of Measurement Software



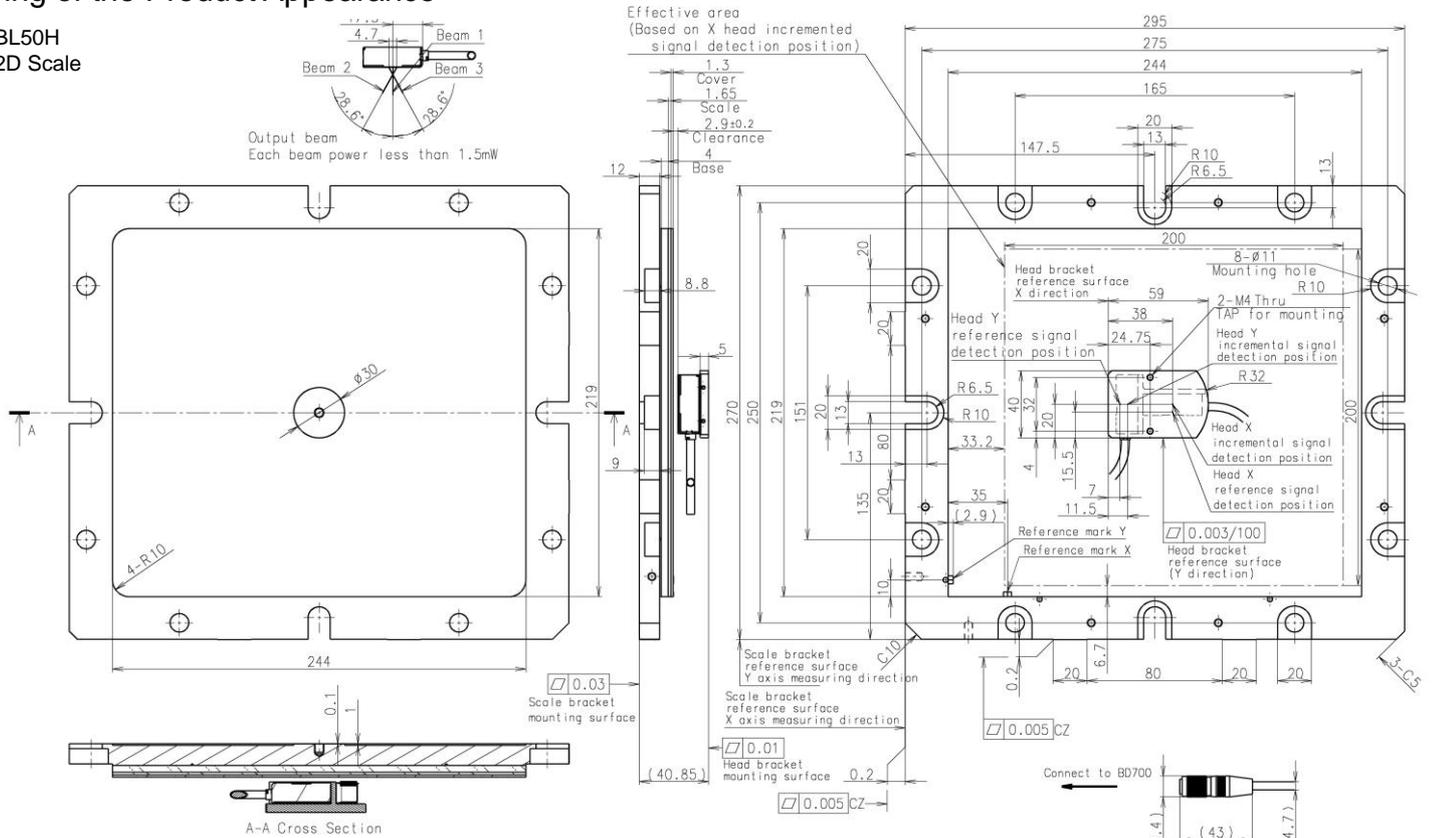
Roundness measurement mode screen



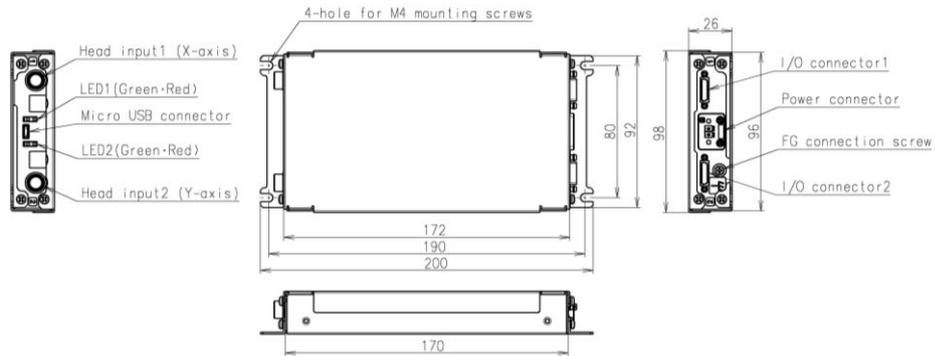
Roundness measurement report File

# Drawing of the Product Appearance

BL50H  
2D Scale



Interpolator  
BD700



## Main Specifications

Measuring Length	200 × 200 mm
Signal Cycle	400 nm
Maximum Resolution	10 μm
Cumulative Accuracy	±0.5 μm (After compensation, scale measuring length 200 × 200mm)
Working Distance	2.9±0.2 mm
XY Orthogonality	±0.3 s (After compensation)
Scale Material and the Thermal Expansion Coefficient	ZERO Glass、 $0.1 \times 10^{-6}/^{\circ}C$
Scale Base Material and the Thermal Expansion Coefficient	SS400 : $11.8 \times 10^{-6}/^{\circ}C$ , Quartz Glass : $0.5 \times 10^{-6}/^{\circ}C$
Measuring Speed	1.0 m/s
Sensor Head Mass	0.2 kg ( without cable)
Cable Length	3 m
Input and Output Signals	BISS C for Incremental , USB
Packaging	With Carry Case
Software	Measurement Software (CSV output), Roundness measurement Software, Lissajous monitoring software

※For your safety : Please read "Instruction Manual "carefully before using the product. ●Contents may be subject to change without prior notice  
 ※This product (and technology) falls under item 16 of the Export Ordinance Appendix 1 (Item 16 of the Foreign Exchange Ordinance Appendix).  
 Please check with the exporter regarding the necessity of permission from the Ministry of Economy, Trade and Industry under the catch-all control.

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