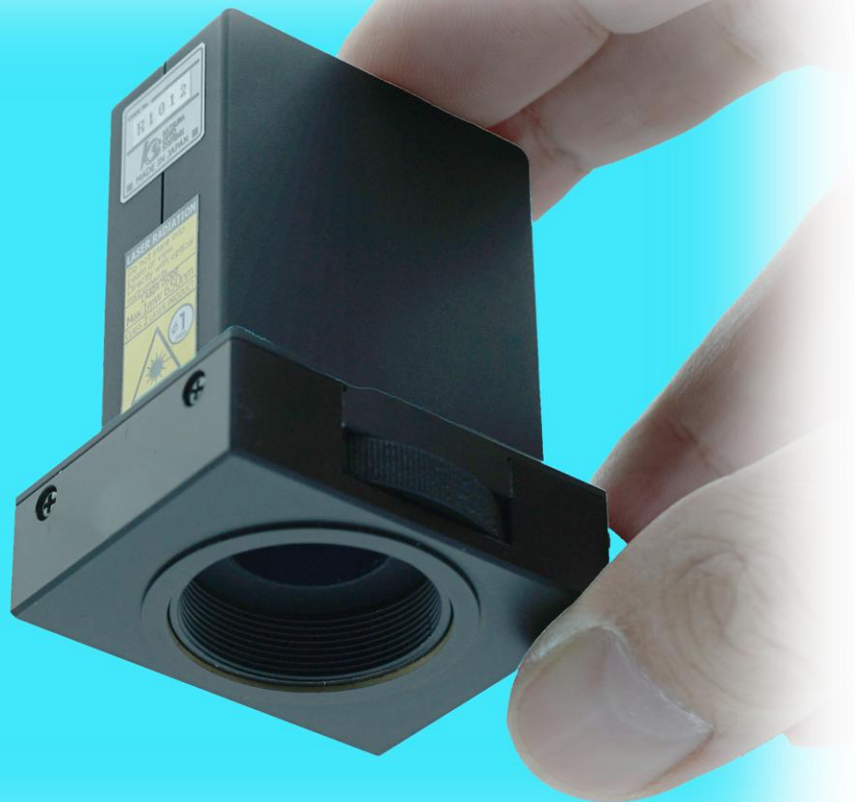


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※ The specifications are subject to change as the product is still under development.

C-mount Tilt Sensor



Precision measurement is not just about removing variability,
it is also opening up new possibilities.

NEW
Coming
Soon!

Development Background

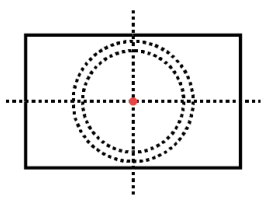
Is it possible to easily adjust the optical axis and inspect products with lens barrels and C-mounts used for machine vision cameras, etc.? We developed this product in response to such customer requests.

We have developed a product with an integrated C-mount surface. By mounting a reference plane, stable measurement results can be obtained, reliability is increased, and work can be sped up.

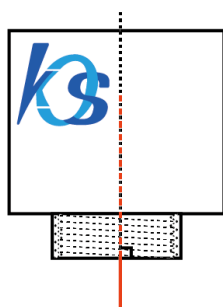
Features

1. Industry's first C-mount integrated tilt sensor
2. Measurement laser emits perpendicularly from the center position to the flange surface of the C-mount
3. Compact, high-precision measurement

TOP VIEW



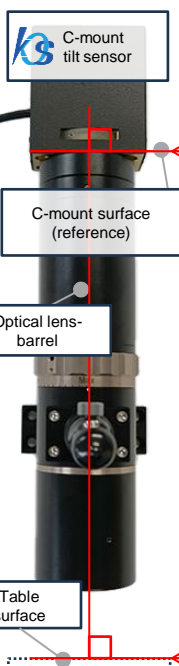
SIDE VIEW



(Machine vision camera optical axis adjustment)

Application sample

Vertical alignment of optical tube and table surface



Case 1.

Mounted in place of a CMOS camera, it enables axis alignment and alignment adjustment of equipment optics, fixtures, etc. based on the camera.

Case 2.

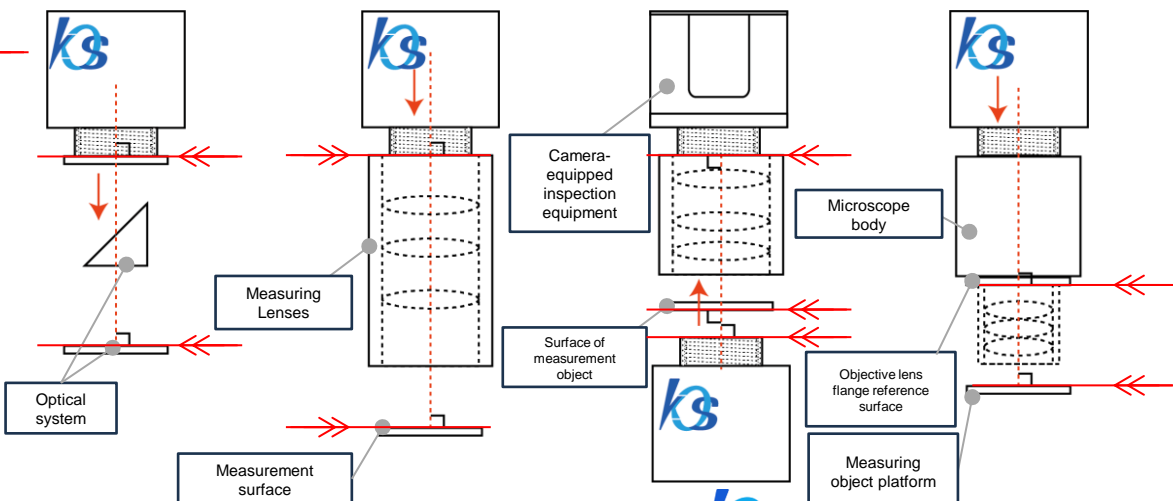
Mounted on a measuring lens, alignment between the lens optical axis and the measurement surface can be checked.

Case 3.

Capable of adjusting the optical axis of inspection and measurement devices equipped with a camera, as well as parallelism with the surface on which the object to be measured is installed.

Case 4.

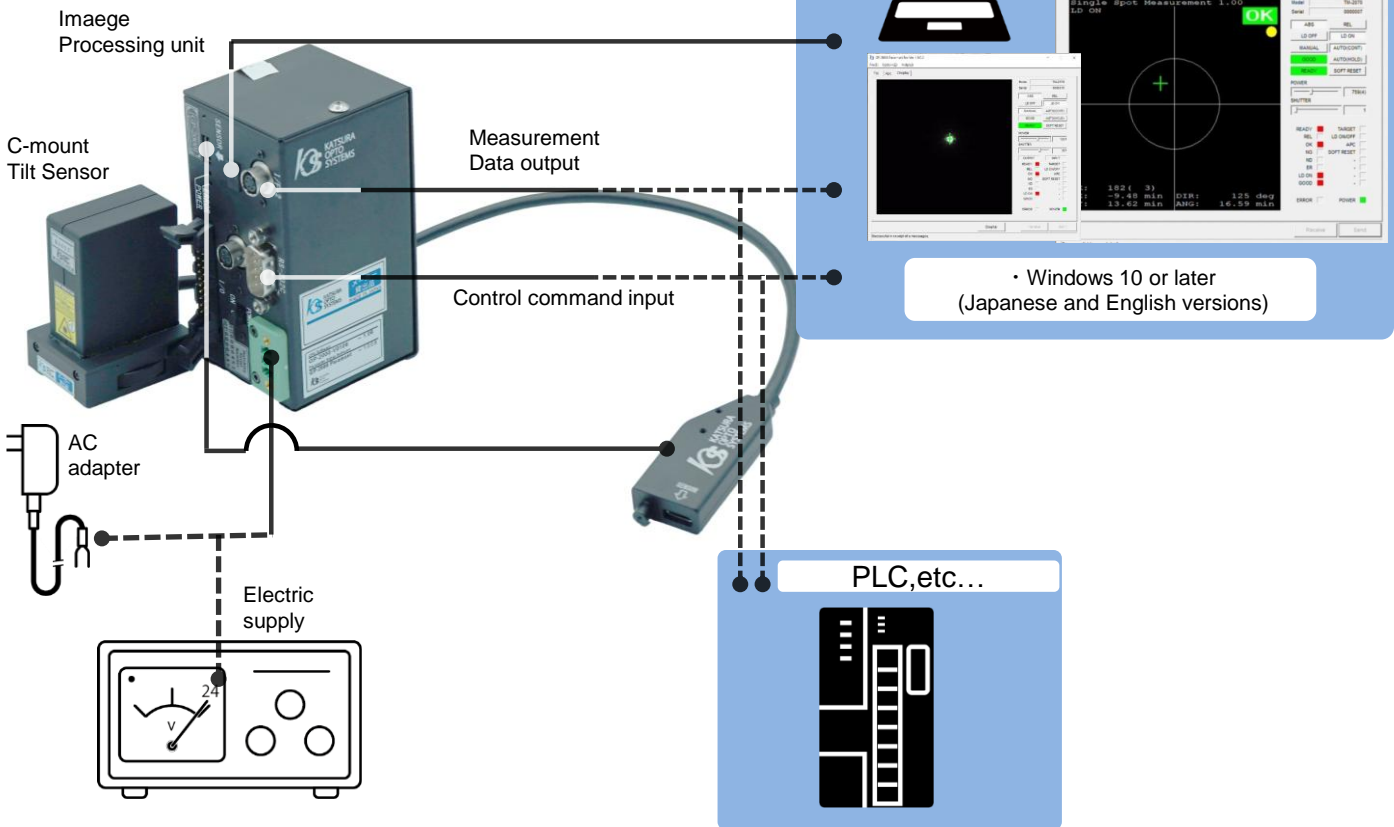
The table on which the object to be measured is placed can be aligned with the flange reference plane of the microscope objective lens.



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System



Specification

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Title		Specification
Measurement	Sample	Optical plane (reflectance 0.5% more)
Measurement	type / Measurement method	Tilt ($\theta X, \theta Y$) / Atocollimator
Measurement area	Tilt ($\theta X, \theta Y$)	± 70 min (Circular range)
Repeatability*1		1sec
Souce	Wave length	650 \pm 10nm
	Beam class	JIS C6802 2014
	Beam diameter	$\Phi 1$ mm*2
Digital In&out	• HIROSE : HR10A-7R-6S	Data output (60times/sec) *4 Command output
	• D-Sub 9pin male*3	
	Mini USB(Type-B)	Image output*5
	Omron: XG4A-2304	IN : TARGET, LD ON / OFF, APC, SOFT RESET OUT : READY, REL, OK, NG, ND, ER, LD ON, GOOD
Power input		DC+24V \pm 10%
Power consumption		Max 15W
Size (Without protrusions)		C-mount tilt sensor : W45 \times D60 \times H36mm Image processing unit : W50 \times D55 \times H100mm
Weight		C-mount tilt sensor : 0.2kg Image processing unit : 0.3kg

*1 WD_50mm setting, 6 σ , camera (PK) 180

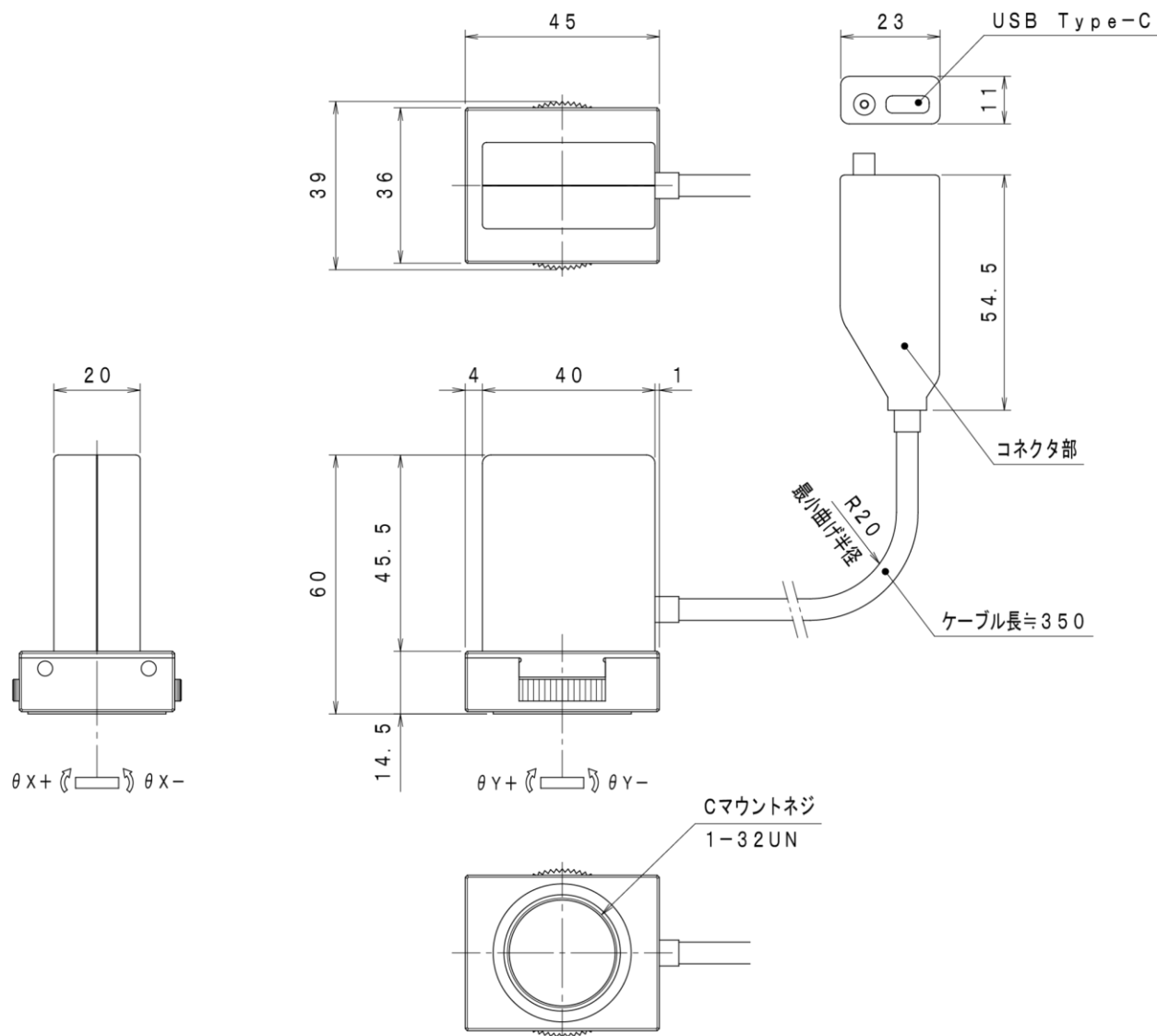
*2 Sensor Immediately after radiation diameter, (1/e²)

*3 In use USB port, →SANWA supply (USB-CVRS9HN) recommendation.

*4 When it to do continuous OUTPUT, (communication command ; \$START) Not to use a 2port same time, Inse of output continuous data.

*5 If it use a "GP-2000 Paramset" of configuration of software, a able to see a camera image vision.

Drawing



※ The specifications are subject to change as the product is still under development.

- The appearance and specifications of the product are subject to change without notice for improvement purposes.

	Katsura Opto Sysytems Co., Ltd.	
HQ	202, Crown Building 1-7-11, Kami-Asao, Asao-ku, Kawasaki-shi, Kanagawa 215-0021 JAPAN TEL: +81-44-969-5231 FAX: +81-44-969-5230	
China	KATSURA OPTO TECHNOLOGY (Shanghai) 1411, Yecheng Road, Jiading Industrial District, Shanghai 201-821 CHINA TEL: +86-21-69529975 FAX: +86-21-69529976	