

Zoom Microscope Option

Rear converter lens | ZRCL

Catalog Code **W2037**

By mounting this rear converter lens between the camera and lens barrel, it will be able to enlarge the optical magnification without changing the working distance.



Specifications

Part Number	ZRCL-1.5	ZRCL-2.0
Magnification	1.5×	2.0×
Camera mount (Lens side / Camera side)	C mount	

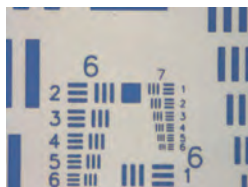
Guide

- ▶ A variety of microscope for C-mount compatible and camera are provided.
Reference (Microscope, Zoom Microscope, OUCI-2, Camera)

Attention

- ▶ It is only for C mount, so it can not be used to the CS mount products such as microscopes, observation systems or cameras.
- ▶ Optical performance and resolution will not be improved even if mounting the rear converter lens. It will be depending on the performance of the microscope.

Reference image Zoom Microscope LWZ-15 (Optical Magnification 15×



Without Rear converter
Observation Field of View About 0.55×0.45mm



ZRCL-1.5
Observation Field of View About 0.37×0.3mm



ZRCL-2
Observation Field of View About 0.28×0.22mm

Ring Light Guide | ZRL-ZOL15

Catalog Code **W2038**

It is suitable for the case that you do not want to generate a shadow of the lighting from 360° diagonal direction and that you observe the highlighted unevenness of the surface.

Guide

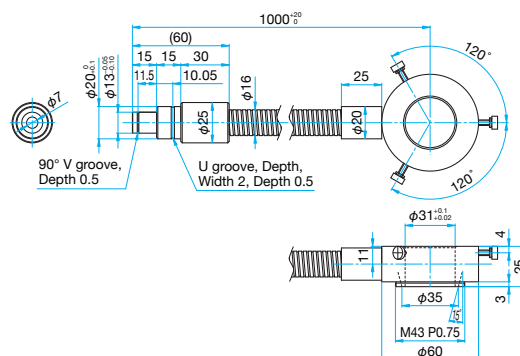
- ▶ A variety of light source is available.
Reference (LED light source, Tungsten Halogen light source and Metal Halide light source)

Attention

- ▶ This product is only for Zoom microscope (LWZ-15/LWZ-15M). If it is used with other products, there is a possibility that optimal illumination can not be done.

Outline Drawing

(in mm)



Focusing unit / Pole stand | ZAS-FAC-PST / PS-S/L

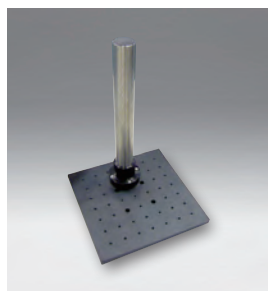
Catalog Code **W2039**

The focusing unit can be installed to the observation unit with coaxial illumination and Zoom microscope. And it can be used as a microscope stand when combined with the pole stand.



Specifications

Part Number	ZAS-FAC-PST
Travel [mm]	30



Specifications

Part Number	PS-S	PS-L
Part Number	PS-S	PS-L

Guide

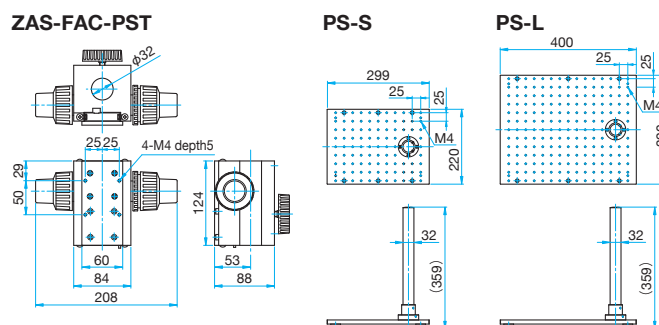
- ▶ It can be installed the manual stage by using the M4 holes on the base plate of the pole stand.

Attention

- ▶ Screws are not supplied with focusing unit for fixing to observation unit with coaxial illumination and zoom microscope.
- ▶ When using a focusing unit and pole stand, please check that required working distance is ensured. ULWZ series is not available for long working distance.

Outline Drawing

(in mm)



Partial light blocking cassette | ZPSC-T1

Catalog Code W2040



Specifications

Part Number	ZPSC-T1
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By blocking the co-axial illumination partially, surface is illuminated with grazing-incidence and microscopic asperity is emphasized during observation

Mounted state to the Lens tub



Theory of partial light blocking

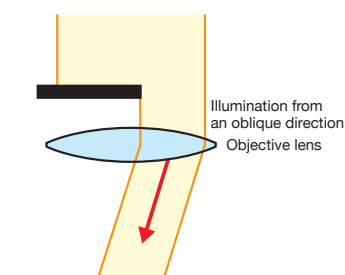
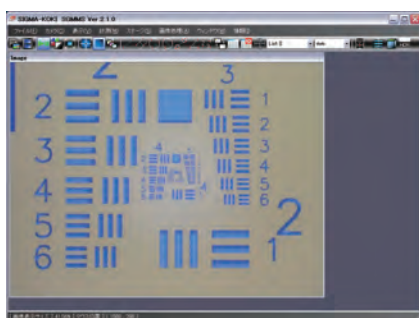


Image measurement software | SGMMSE

Catalog Code W2010

This is an integrated software system that easily can be used by a PC mouse, and it enables to carry out image measurement and analysis, image storage, focus synthesis and so on to support the zoom microscope.

- This software is for image processing and measurement with 2.0 Mega pixels USB2.0 Color Camera (SK-TC202USB-AT). Windows® XP / 7 (32bit) is supported.



Specifications

Part Number	SGMMS
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[Measurement functions]

● Image and video capture

Image by BMP, JPG, GIF, and PNG format and Video by AVI format can be saved.

● Measurement function

It easily measures the size of an object by clicking the mouse on the screen. It can measure the distance between two points, the radius and diameter from the point of three or more points, angle, etc.

● Calibration function

11 types of calibration settings can be registered depending on the magnification of the zoom microscope.

● Camera control

Camera's gain, shutter speed, white balance and reversal can be displayed.

● Line display (cross line, scale display)

HDR (High Dynamic Range Imaging) Function

When observed objects with different reflection, an image can be obtained by reducing the overexposure and underexposure. It can be taken completely the state of the sample.



Normal image



HDR image



Normal image

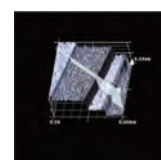
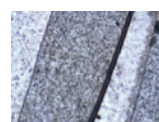
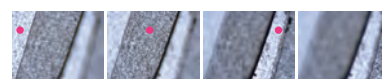


HDR image

Hyperfocus / 3D display function

By using the motorized Z-axis stage, it can take an "in-focus" picture over the entire screen. 3D images can be displayed from the image of the composed focus.

Example of Synthetic Image



3D display

