

USB Camera & Digital Microscope
YCU-300S/YDZ-3S/YDU-3S



By adopting a German camera module and assembling and inspecting it in Japan, the performance is stable and the operability is further improved.

YCU-300S

3 million pixels 1/2 high-speed USB camera

- * USB digital camera with C-mount connection.
- * It is smaller than the conventional one and can be stored compactly by adopting a removable USB cable.
- * With JIS standard conversion adapter, simple connection to the eyepiece is also possible.



←By converting to JIS standard, it can be easily inserted into the eyepiece and used.

YDZ-3S

USB connection zoom digital microscope

- * Zoom digital microscope equipped with YCU-300S.
- * The lens uses an ultra-compact 8x zoom macro lens, and by turning the dial, the magnification from 30x to 250x can be converted smoothly and freely.



Example of shooting by magnification



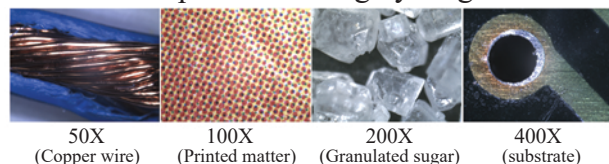
YDU-3S

USB connection fixed magnification digital microscope

- * Fixed magnification digital microscope equipped with YCU-300S.
- * Magnification can be converted from 50x to 400x by exchanging the objective lens.
- * Since it is a fixed magnification type, it can be observed with bright and clear image quality.



Example of shooting by magnification



The common length measurement software YCU measure is easy to use in Japanese, and you can intuitively operate various functions.

In addition to basic length measurement of straight lines, circles, and quadrangles, you can also process, combine, and connect images, and take pictures of images.

Main operation screen

The necessary stickers are displayed as icons, so you can operate them intuitively without any confusion.

You can also customize it to your own specifications, such as displaying only the stickers you need or arranging Windows to make it easier to work with.

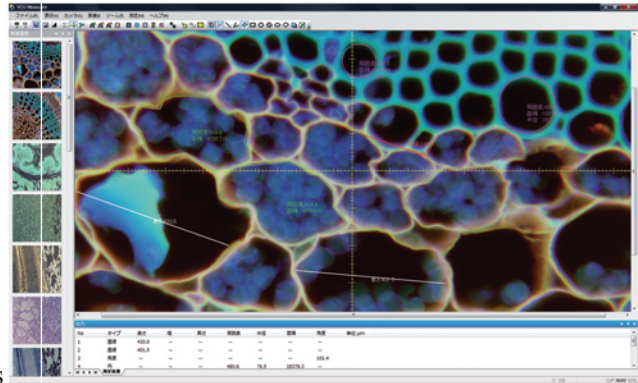
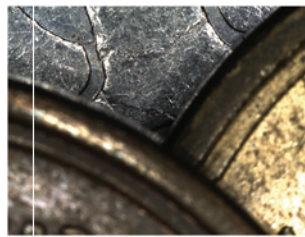
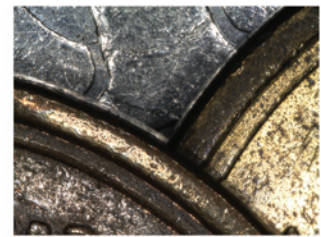


Image synthesis

You can automatically combine multiple still images taken while changing the depth to create an image with all the focus. It is an uneven object and can be reliably captured in every corner.



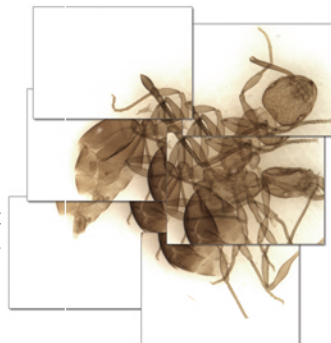
Before synthesis



After synthesis

Image concatenation

A wide field of view and high resolution can be generated by dividing and shooting an object that does not fit in the field of view and automatically connecting the still image fields of view. You can observe and measure the overall image of the object at high magnification.



Before concatenation



After concatenation

Other main functions

Two-point
length
measurement

Angle
measurement

Flip
horizontal

Color
inversion

Cell
count

EXCEL
output

CSV
output

Grayscale
display

Center
line
display

Sharp

Embossing

Blur

Polygon
measurement

Elliptical
measurement

Circular
measurement

Rectangle
measurement

Movie
shooting

* Measurement can be performed not only for still images but also for live images.

SPEC.

YCU-300S

Image sensor	1/2 inch CMOS
Pixel	300pixel
Pixel size	3.20μm x 3.20μm
frame rate	11fps
Supported OS	windows7↑
Interface	USB2.0↑
Dimensions / weight	48mmx40mm • 91g
Software	YCU Measure(Japanese)
Accessories	Software CD-ROM, JS adapter
Country of manufacture	Japan

YDZ-3S

Overall magnification	about30X-250X
Camera	Equipped with YCU-300S
Lens configuration	9 groups, 12 pieces
Zoom ratio	8X±5%
Working distance	36.5mm(From the observation object to the lens surface)
Lighting device	8 white LEDs
Dimensions / weight	60x190mm, about380g
Accessories	Light controller, AC power, Power cord for USB Software & Driver CD-ROM
Country of manufacture	Japan

YDU-3S

Overall magnification	50x	100x	200x	400x
Camera	Equipped with YCU-300S			
Working distance	25.8mm	19.3mm	17.3mm	7.7mm
Lighting device	8 white LEDs			
Dimensions / weight	60x220mm, about 455g			
Accessories	Light controller, AC power, Power cord for USB, Software & Driver CD-ROM			
Country of manufacture	Japan			

option

Shared options

	YAM-1 Scale (square type)	YAM-2 Scale(Normal)	YAM-3 Objective micrometer
spec.	1Divi=0.1mm	1Divi=0.05mm	1Divi=0.01mm

YDU-3S YDZ-3S option

	YAS-1 Stand(Small)	YAS-7 Standard stand	YAX-1 XY stage(Small)	YAX-2 XY stage(Big)
spec.	150x125x230mm Screw fixing type Corresponding XY stage :NO	145x185x355mm Coarse fine movement handle Corresponding XY stage YAX-1 YAX-2	70x70x30mm Withstand load:about 4kg Movement amount: ± 25 mm for both axes Corresponding stand:YAS-7	130x130x39mm Withstand load:about 5kg Movement amount: ± 37.5 mm for both axes Corresponding stand:YAS-7

YDU-3S option

Replacement objective lens

	YAO-11 Objective lens 50X	YAO-12 Objective lens100X	YAO-13 Objective lens200X	YAO-14 Objective lens400X
spec.	Working distance:25.8mm	Working distance:19.3mm	Working distance: 17.3mm	Working distance:7.7mm