

Custom-made

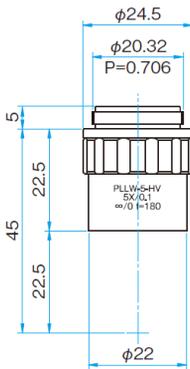
Objective Lens for Vacuum with Transparent Hole PLLW/PALLW



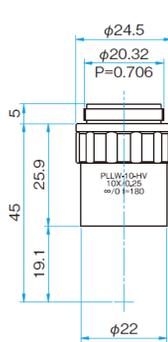
Objective lens for vacuum with transparent hole.
 Stainless steel without surface treatment to prevent outgassing.
 A through hole for degassing to discharge air between the lens at the side of the lens barrel.
 A transparent hole to transmit X-ray at the center of the hole. Objective lens for vacuum without transparent hole also available.

Outline Drawing

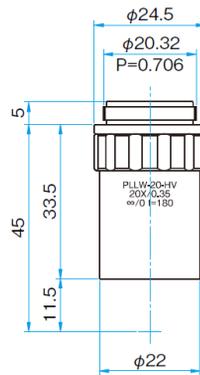
PLLW-5-HV



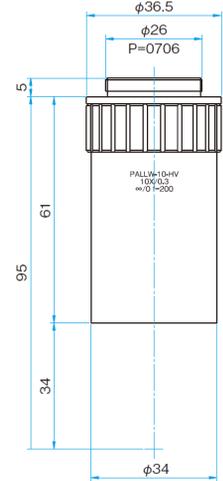
PLLW-10-HV



PLLW-20-HV



PALLW-10-HV



Specs combined with Telecentric zoom microscope (SIZM)

Part Number	Optical Magnification *1	Hole dia.(cavity*2) [mm]	Focal length[mm]	Parforal length[mm]	Working distance (W.D.) [mm]	NA	resolution [μm]	Image circle [mm]	FOV of camera (1/2 inch)*1 [mm]
PLLW-5-HV	1.4 - 19.4	φ1.0	36	45	22.5	0.1	3.4	φ5.2 - φ11	X 3.7 - 0.33 Y 3.4 - 0.25
PLLW-10-HV	2.8 - 38.8	φ1.5	18	45	19	0.25	1.4	φ5.2 - φ11	X 1.9 - 0.16 Y 1.7 - 0.12
PLLW-20-HV	5.6 - 77.6	φ1.0	9	45	11.5	0.35	1	φ5.2 - φ11	X 0.93 - 0.08 Y 0.86 - 0.06
PALLW-10-HV	2.5 - 35	φ1.5	20	95	34	0.3	1.2	φ5.2 - φ11	X 2.1 - 0.18 Y 1.9 - 0.14

*1 Optical magnification is the magnification combined with zoom lens (SIZM)

*2 Field of view will be narrowed due to the performance for low magnification.

Custom Lens Design

We support to design, manufacture and OEM supply of various kinds of custom lens based on our many years of experiences on optical design, polishing, coating and assembly technology.

■ Custom lens design example

- Large aperture fθ lens (scan area 180mm)
- Machine vision lens with mega-pixels
- Projection lens for exposure system
- objective lens for fs laser
- Variable spherical aberration correction objective lens
- Phase contrast microscope unit
- Differential interference microscope unit