

# Objective Lens Product Catalog



# Long Distance Objective Lens(APO)

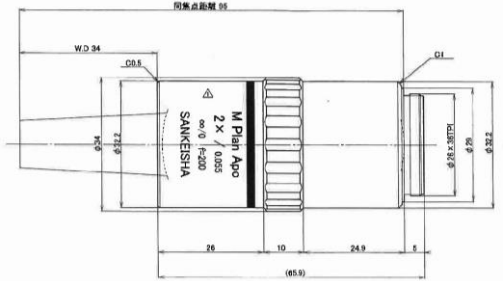
•Parfocal Distance: 95 mm



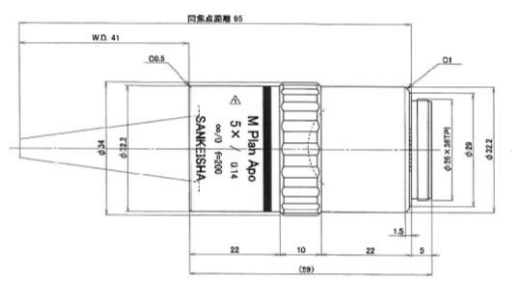
- Feature:
  - Compensate Chromatic Abberation by visible area(0.436 ~ 0.656m) Apchromat.
  - Long Working Distance
  - Parfocal Distance: 95 mm

- Outer Dimension:

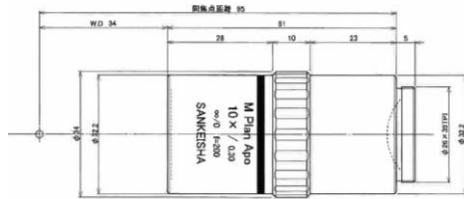
BJ180 M Plan APO 2X



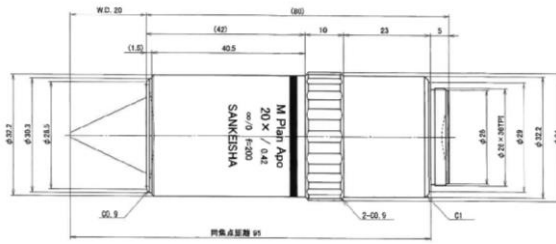
BJ181 M Plan APO 5X



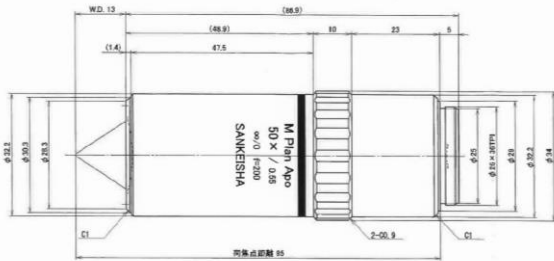
BJ41 M Plan APO 10X



BJ182 M Plan APO 20X



BJ183 M Plan APO 50X



- Specifications:

Part Number	Focal Distance f (mm)	NA	W.D(mm)	Resolution ( $\mu$ m)	Field Number (mm $\phi$ )	Wavelength	Parfocal Distance(mm)	Mass(g)
BJ180 M Plan APO 2X	100	0.055	34.1	6.1	12 (24)	Visible Area(0.436~0.656 $\mu$ m) Apchromat	95	223
BJ181 M Plan APO 5X	40	0.1	41	2.4	4.8 (24)	Visible Area(0.436~0.656 $\mu$ m) Apchromat	95	220
BJ41 M Plan APO 10X	20	0.3	34	1.12	2.4 (24)	Visible Area(0.436~0.656 $\mu$ m) Apchromat	95	243
BJ182 M Plan APO 20X	10	0.42	20	0.79	1.2 (24)	Visible Area(0.436~0.656 $\mu$ m) Apchromat	95	284
BJ183 M Plan APO 50X	4	0.55	13.1	0.6	0.48 (24)	Visible Area(0.436~0.656 $\mu$ m) Apchromat	95	299

Resolution in the above columns is the numerical value calculated under the reference wavelength ( $\lambda = 550$ nm).

※ The specifications may be changed without prior notice.

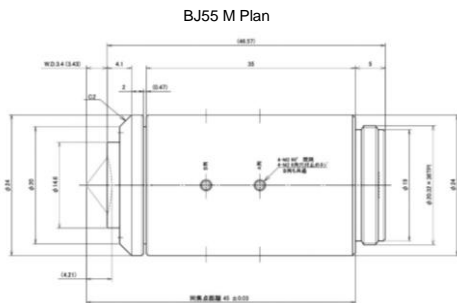
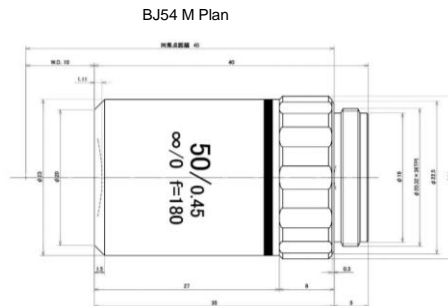
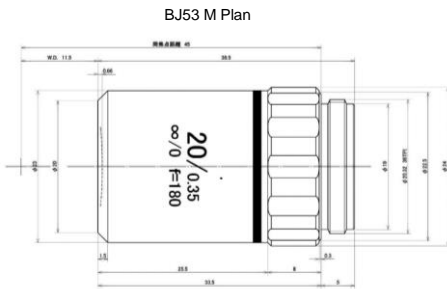
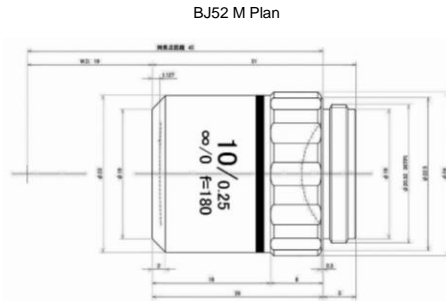
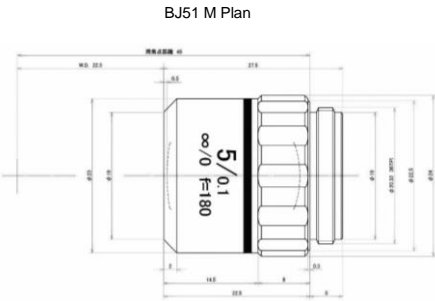


# Objective Lens

- Parfocal Distance: 45 mm
- Semi-Apochromat
- Long Working Distance



● Outer Dimension:



● Specifications:

Part Number	Magnification	NA	Parfocal Distance (mm)	Imaging Lens (mm)	Mechanical Barrel Length (mm φ)	Wavelength	Field Number (mm φ)	W.D. (mm)	Mount Spec. (mm)
BJ51 M Plan	5X	0.1	45	180	∞	Visible Ray	24	22.5	Φ20.32x36TPI
BJ52 M Plan	10X	0.25	45	180	∞	Visible Ray	24	19	Φ20.32x36TPI
BJ53 M Plan	20X	0.35	45	180	∞	Visible Ray	24	11.5	Φ20.32x36TPI
BJ54 M Plan	50X	0.45	45	180	∞	Visible Ray	24	10	Φ20.32x36TPI
BJ55 M Plan	100X	0.8	45	180	∞	Visible Ray	24	3.4	Φ20.32x36TPI

※ The specifications may be changed without prior notice.

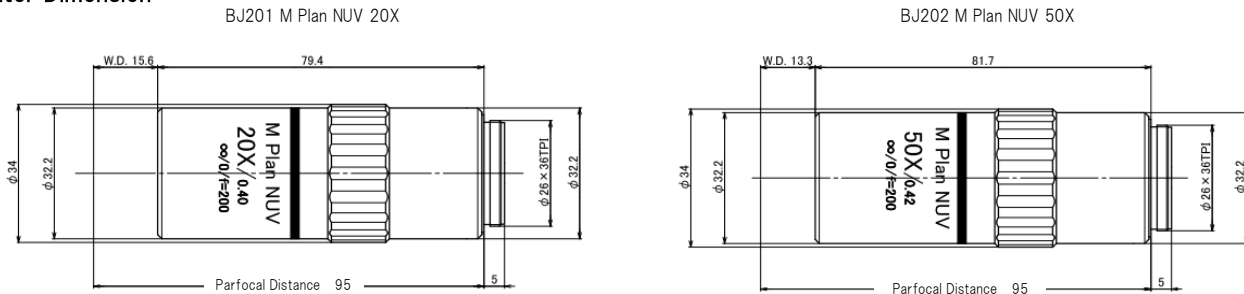
# Near Ultra Violet Ray Objective Lens(NUV)



## \*Feature

- Suitable for using with YAG Laser (355 nm)  
Realize an excellent aberration compensation and possible to implement sharp process.
- Possible to compensate the chromatic aberration under both Near Ultra Violet Ray(355nm) and Visible Ray.
- Optimum for Laser Repair Application.

## Outer Dimension



## \*Specifications

Model No.	Focal Distance f(mm)	Numerical Aperture NA	Working Distance W.D.(mm)	Resolution ( $\mu$ m)	Field Number (mm $\phi$ )	Wavelength	Mass(g)
BJ201 M Plan NUV 20X	10	0.4	15.6	0.54	16 (8.5)	355nm&Visible Ray	330
BJ202 M Plan NUV 50X	4	0.42	13.3	0.52	16 (4.2)	355nm&Visible Ray	330

The resolution on the above specifications shall be the numerical value that has been calculated under the reference wavelength( $\lambda=355$ nm).  
The value in the bracket is for laser usage.

\*The specifications are subject to change without prior notice.



# Ultra Violet Ray Objective Lens(UV)

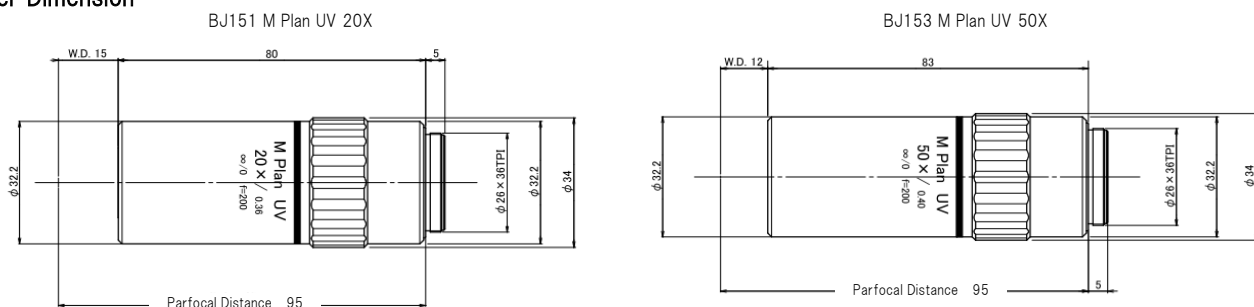


## \*Feature

- Suitable for using with YAG Laser (266 nm)  
Realize an excellent aberration compensation and possible to implement sharp process.
- Possible to compensate the chromatic aberration under both Ultra Violet Ray(266 nm) and Visible Ray(532nm).
- Realize higher laser durability by less junctional surface design.

**\*We recommend the customers to use Green Filter simultaneously, when observing the visible ray.**

## Outer Dimension



## \*Specifications

Model No.	Focal Distance f(mm)	Numerical Aperture NA	Working Distance W.D.(mm)	Resolution ( $\mu$ m)	Field Number (mm $\phi$ )	Wavelength	Mass(g)
BJ151 M Plan UV 20X	10	0.36	15	0.45	24	266nm&Visible Ray	360
BJ153 M Plan UV 50X	4	0.4	12	0.41	24	266nm&Visible Ray	370

The resolution on the above specifications shall be the numerical value that has been calculated under the reference wavelength( $\lambda=266$ nm).

\*The specifications are subject to change without prior notice.



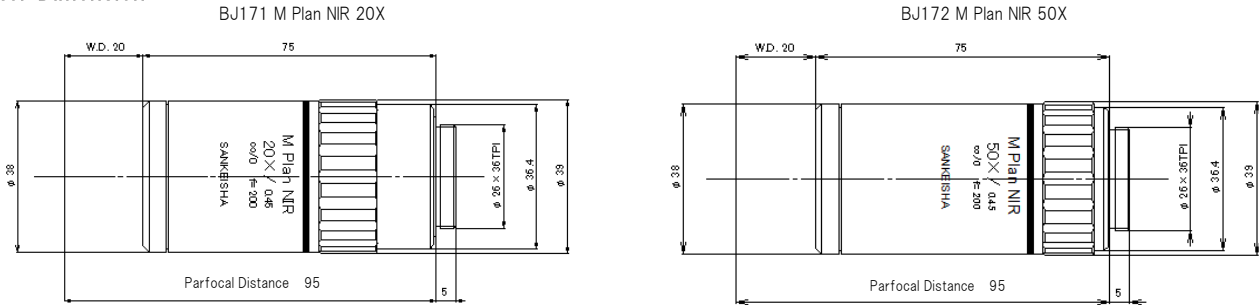
# Near Infrared Ray Objective Lens(NIR)



## \*Featur

- a) Suitable for using with YAG Laser (1064 nm), (532 nm).  
Realize an excellent aberration compensation and possible to implement sharp process.
- b) Possible to compensate the chromatic aberration under both Near Infrared Ray(1064 nm) and Visible Ray.
- c) Possible to use for observation purpose too.

## ●Outer Dimension



## ●\*Specifications

Model No.	Focal Distance f(mm)	Numerical Aperture NA	Working Distance W.D.(mm)	Resolution ( $\mu$ m)	Field Number (mm $\phi$ )	Wavelength	Mass(g)
BJ171 M Plan NIR 20X	10	0.45	20	0.6	24	1064nm&Visible Ray	360
BJ172 M Plan NIR 50X	4	0.45	20	0.6	24	1064nm&Visible Ray	380

The resolution on the above specifications shall be the numerical value that has been calculated under the reference wavelength( $\lambda=550$ nm).  
\*The specifications are subject to change without prior notice.



# Imaging Lens



## ●\*Featur

- \*BJ170: Chromatic Aberration Compensation Range: 266nm/532nm/460-680nm/1064nm
- \*BJ173: Chromatic Aberration Compensation Range: 355nm/532nm/460-680nm/1064nm

## ●\*Outer Dimension



## ●\*Specifications

Model No.	Focal Distance f(mm)	Image Magnification	Field Number (mm $\phi$ )	Mass(g)
BJ170	200	1 X	24	38.5
BJ173	200	1 X	24	38.5

\*The specifications are subject to change without prior notice.

