Long working distance objectives for bright field

# M Plan Apo

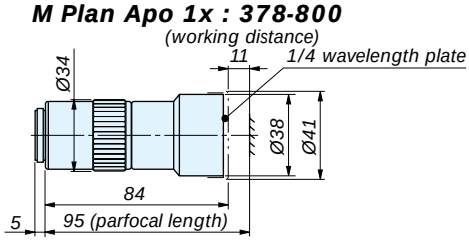
## ■ FEATURES

1. A specimen with steps, which cannot be focused on with the conventional short working distance objectives, can be easily observed with the use of Mitutoyo long working distance objectives (M Plan Apo 100x: 6mm).
2. The M Plan Apo (Apochromat) is an excellent optical system, with the flat and chromatic aberration free image over the entire field of view.

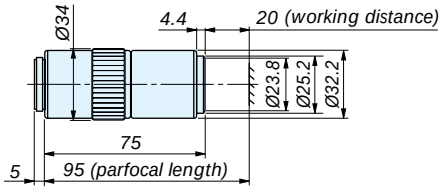
## ■ DIMENSIONS

*Mounting screws 26, thread 36 (see P.30.)

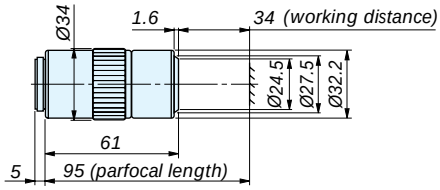
**M Plan Apo 1x : 378-800**



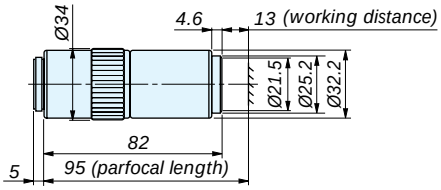

**M Plan Apo 20x : 378-804-2**



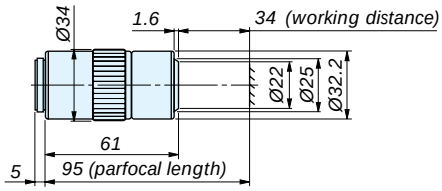

**M Plan Apo 2x : 378-801**



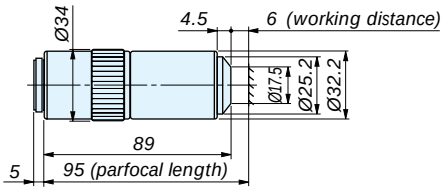

**M Plan Apo 50x : 378-805-2**



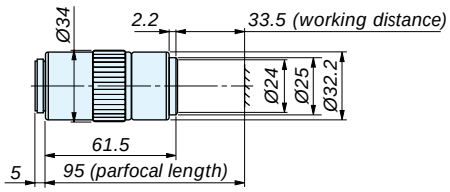

**M Plan Apo 5x : 378-802-2**




**M Plan Apo 100x : 378-806-3**




**M Plan Apo 10x : 378-803-2**




Unit: mm

## ■ SPECIFICATIONS

| Order No. | Magnification | N.A. | W.D. (mm) | S (mm) | R (μm) | DOF (μm) | Real FOV (mm) (Ø24 eyepiece) | Real FOV (VxH, mm) (1/2" CCD camera) | Mass (g) |
|---|---|---|---|---|---|---|---|---|---|
| **378-800*** | 1x | 0.025 | 11.0 | 200 | 11.0 | 440 | Ø24 | 4.8x6.4 | 300 |
| **378-801** | 2x | 0.055 | 34.0 | 100 | 5.0 | 91 | Ø12 | 2.4x3.2 | 220 |
| **378-802-2** | 5x | 0.14 | 34.0 | 40 | 2.0 | 14.0 | Ø4.8 | 0.96x1.28 | 230 |
| **378-803-2** | 10x | 0.28 | 33.5 | 20 | 1.0 | 3.5 | Ø2.4 | 0.48x0.64 | 230 |
| **378-804-2** | 20x | 0.42 | 20.0 | 10 | 0.7 | 1.6 | Ø1.2 | 0.24x0.32 | 370 |
| **378-805-2** | 50x | 0.55 | 13.0 | 4 | 0.5 | 0.9 | Ø0.48 | 0.10x0.13 | 290 |
| **378-806-3** | 100x | 0.70 | 6.0 | 2 | 0.4 | 0.6 | Ø0.24 | 0.05x0.06 | 320 |

* M Plan Apo 1x (**378-800**) should be used together with an appropriate polarizer for the microscope used.
•The resolving power and focal depth of the discrete objective are values determined based on the reference wavelength.