

NEW MACRO ZOOM LENS

*Outstanding
Resolution!*



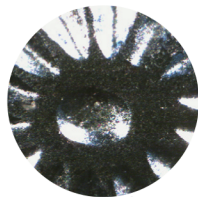
New High Resolution Macro Zoom Lens
TS-93030

- By adding more lens elements compared to our previous 8x zoom lens, we've achieved significantly higher resolution. Specifically, resolution at maximum magnification has doubled compared to the previous version, enabling diffraction-limit resolution.
- Thoroughly suppressing chromatic aberration and spherical aberration, clear contrast is achieved, and even when zoomed in, the image remains bright and sharp

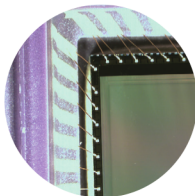
Dimension



Flower engrave of 100 yen coin
Low Mag



Flower engrave of 100 yen coin
High Mag

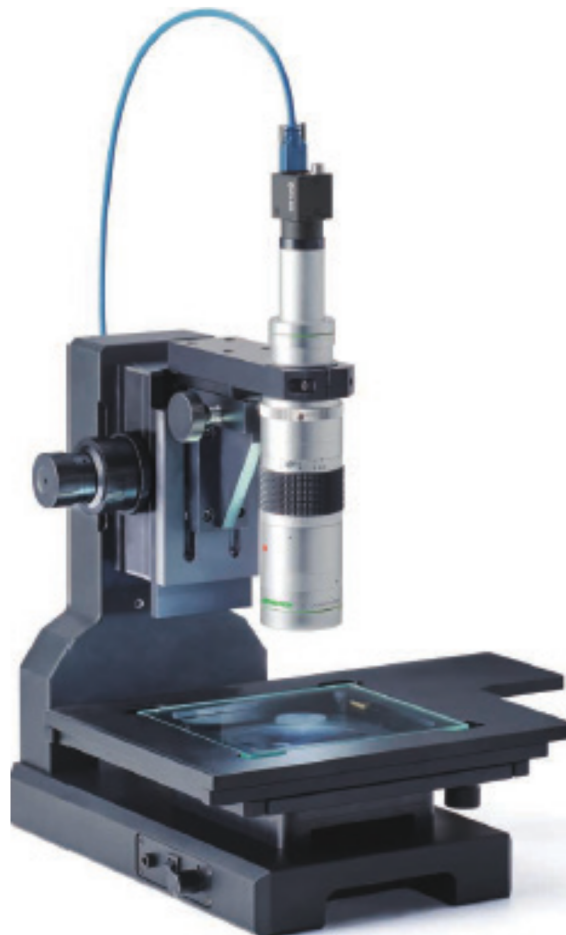


Camera sensor element
Low Mag



Camera sensor element
High Mag

TS-93030 + Stand · Camera Setup Example



※The camera and stand are for the reference

| Item | | New High Resolution Macro Zoom Lens | | | | | | | |
|---|------|-------------------------------------|------|-------|-----|-------|-----|--|--|
| Optical Total length (First lens - Image plane) | | 272.5mm | | | | | | | |
| The number of lenses | | 22 pcs | | | | | | | |
| Mount · Sensor size | | C-Mount · 2/3inch(Φ11) | | | | | | | |
| Zoom Position | | WIDE | | MID | | TELE | | | |
| Zoom Ratio | | | | ×8 | | | | | |
| Optical Magnification | | 0.8 | | 2.25 | | 6.4 | | | |
| Field of View (V×H mm) | 2/3" | 8.3 | 11.0 | 2.9 | 3.9 | 1.0 | 1.4 | | |
| | 1/2" | 6.0 | 8.0 | 2.1 | 2.8 | 0.8 | 1.0 | | |
| | 1/3" | 4.5 | 6.0 | 1.6 | 2.1 | 0.6 | 0.8 | | |
| | 1/4" | 3.4 | 4.5 | 1.2 | 1.6 | 0.4 | 0.6 | | |
| WD (mm) | | | | 84 | | | | | |
| | | | | 356.3 | | | | | |
| Object side Na | | 0.04 | | 0.11 | | 0.18 | | | |
| Image side Na | | 0.05 | | 0.05 | | 0.03 | | | |
| Object side Resolution (μm) | | 8.39 | | 2.97 | | 1.92 | | | |
| Image side Resolution (μm) | | 6.75 | | 6.71 | | 11.77 | | | |
| Object side Resolving power (Lines/mm) | | 119 | | 337 | | 522 | | | |
| Image side Resolving power (Lines/mm) | | 149 | | 149 | | 85 | | | |

Resolution is Rayleigh resolution.