

Line Scan Lens for Large Image Circle, ϕ 90mm

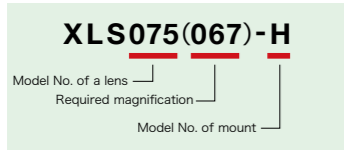
Compatible with large image circle, up to ϕ 90mm sensor

- ▣ Suitable for large sensor such as 「10 μ x 7300 bit」, 「5.2 μ x 12000 bit」, 「5 μ x 16384bit」, etc...
- ▣ Suitable for large area sensor of high resolution such as 12 Mega, 16 Mega, and 29 Mega
- ▣ Reduce color aberration, suitable for 3 line sensor
- ▣ Excellent uniformity of brightness and resolution
- ▣ Possible to adjust $\pm 0.05x$ from the original magnification by using the optional mount
- ▣ Customized mount is available
- ▣ 「SP Series (Page 4)」 is suitable if brightness is essential for the application



How to request if magnification is other than standard.

Ex.) 0.67x for Dalsa P3-12K



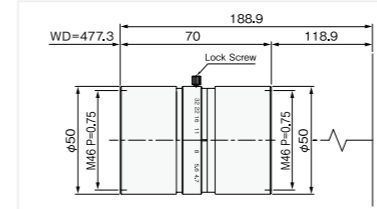
- * If a lens is not used at the standard magnification, adjustable range is not $\pm 0.05x$.
- * Please select one of XLS series which magnification is the closest from required magnification.

Model No. of Mount

| Model | Compatible Camera | Screw Pitch | Back Focal Distance |
|----------|---|---------------|---------------------|
| XLS□□□-F | F Mount Camera | F Mount | 46.5mm |
| XLS□□□-Q | NED : 3 Line Camera NUCLi7300 | M84.5 (P=0.5) | 41mm |
| XLS□□□-N | NED : CLISBee 8k | M72 (P=0.75) | 31.8mm |
| XLS□□□-M | DALSA : Piranha 28k / TAKEX : TL-16000CL | M72 (P=0.75) | 19.55mm |
| XLS□□□-D | DALSA : Piranha 48k Piranha HS 3 16k | M72 (P=0.75) | 12mm |
| XLS□□□-H | DALSA : Piranha 3 12k Piranha HS 8k 12k Piranha ES 8k | M72 (P=0.75) | 6.56mm |
| XLS□□□-E | e2V: ELIIXA + 16K Pixels | M95 x 1 | 9.4mm |

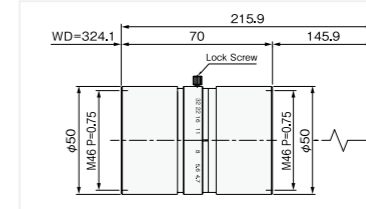
* $\pm 0.05x$ can be adjusted from the standard magnification by using the mount mentioned above.
 * Please ask for customized mount.

XLS03



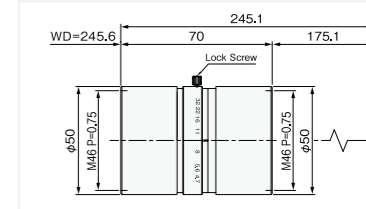
| | |
|------------------------|-------------|
| Magnification | 0.3x |
| ∞ F No. | 4.7 |
| F No. | 6.0 |
| WD | 477mm |
| OI | 666mm |
| Maximum Compatible CCD | ϕ 90mm |

XLS05



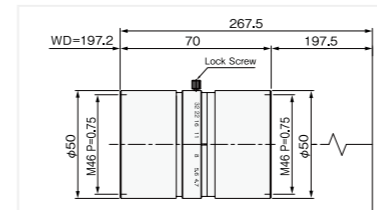
| | |
|------------------------|-------------|
| Magnification | 0.5x |
| ∞ F No. | 4.7 |
| F No. | 7.0 |
| WD | 324mm |
| OI | 540mm |
| Maximum Compatible CCD | ϕ 90mm |

XLS075



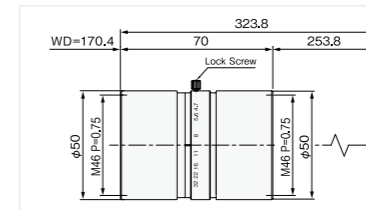
| | |
|------------------------|-------------|
| Magnification | 0.75x |
| ∞ F No. | 4.7 |
| F No. | 8.1 |
| WD | 246mm |
| OI | 491mm |
| Maximum Compatible CCD | ϕ 90mm |

XLS10



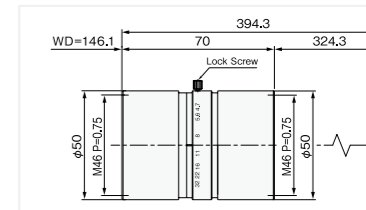
| | |
|------------------------|-------------|
| Magnification | 1.0x |
| ∞ F No. | 4.7 |
| F No. | 9.0 |
| WD | 197mm |
| OI | 465mm |
| Maximum Compatible CCD | ϕ 90mm |

XLS14



| | |
|------------------------|-------------|
| Magnification | 1.4x |
| ∞ F No. | 4.7 |
| F No. | 11.4 |
| WD | 170mm |
| OI | 494mm |
| Maximum Compatible CCD | ϕ 90mm |

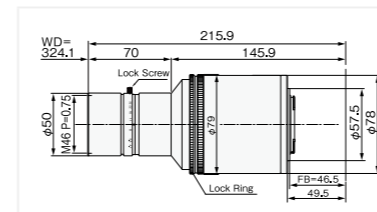
XLS20



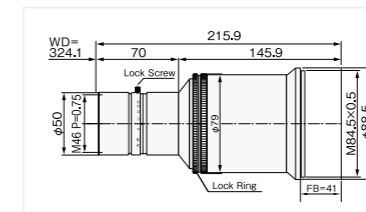
| | |
|------------------------|-------------|
| Magnification | 2.0x |
| ∞ F No. | 4.7 |
| F No. | 14.5 |
| WD | 146mm |
| OI | 540mm |
| Maximum Compatible CCD | ϕ 90mm |

Example of a lens with mount (XLS05)

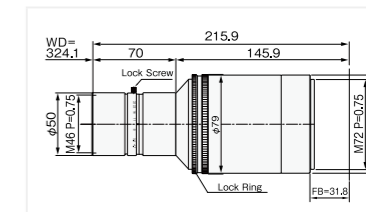
XLS05-F



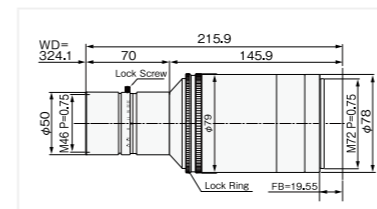
XLS05-Q



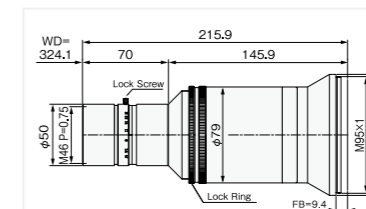
XLS05-N



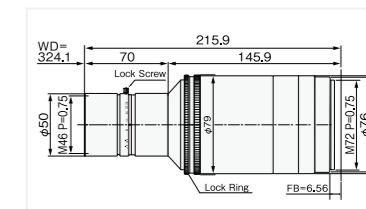
XLS05-M



XLS05-E

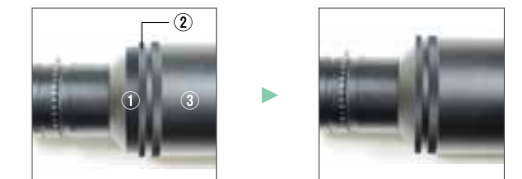


XLS05-H



How to adjust magnification

- Mount tube is composed by three mechanical parts ①, ②, and ③.
- Magnification increases by extending the mount and decreases by shortening.



* Indicated specifications are design values.