The quality control, productivity and cost-effectiveness are highly required in every industry such as semiconductor, electronics, chemicals, packaging, medical equipment, automobiles and consumer goods. The demand for high-precision positioning, measurement, inspection and evaluation with an image processing is increasing. Taking advantage of optical design and manufacturing technology in-house, we bring high-precision and cost efficient Machine Vision optical lens units into the market.

High Resolution Telecentric Lenses

- Support 0.5× to 1.0× optical magnification
- By widening the chromatic aberration correction range to 436nm 656nm from conventional model, it is possible to achieve high NA and low distortion to capture a clear image.
- A wide field of view in a compact optical design is realized. (Corresponding to the imaging element up to 1.1".)





Specifications		
Magnification	1.0×	0.5×
W.D.	65mm	70mm
Barrel length	152.5mm	147.9mm
Imaging element size	≦1.1″	≦1.1″
Telecentricity	0.03°	0.02°
Distortion	0.03%	0.01%
Effective F#	5.5	5
Object side NA	0.091	0.05
Wavelength range	436nm – 656nm	436nm – 656nm

High Magnification Telecentric Lenses

- High magnification (10×) lens with widened chromatic aberration correction range of 436nm 656nm.
- Realizing the long working distance and low distortion together with NA0.23 comparable to the objective lens, it is possible to capture fine image.
- A wide field of view in a compact optical design is realized. (Corresponding to the imaging element up to 1.1".)



Specifications		
Magnification	10×	
W.D.	55mm	
Barrel length	172.5mm	
Imaging element size	≦1.1″	
Distortion	-0.1%	
Effective F#	22	
Object side NA	0.23	
Wavelength range	436nm – 656nm	

Lens units for Machine Vision and Image Transfer

- We offer a wide range of lens line-up to cover various requirements. (Macro lens, Telecentric lens, CCTV lens for industry use, Line sensor lens, etc.)
- Illumination unit, power supply, camera and lens barrel are also available.











Application Systems

Optics & Optical Coatings

Opto-Mechanics

Bases

Manual Stages

Actuators & Adjusters

Motoeized Stages

Light Sources & Laser Safety

Index

Microscope Unit

Alignment

Interferometers

Inspection/ Observation

Bio-photonics

Laser Processing

