

Telecentric lens with near infrared support and focus shift correction

Product page
URL



VS-TCM1-65CO/S-RIR

Telecentric

Adjusting wavelengths corrects focus shifts in the visible spectrum out to 1200nm, simplifying surface and substrate inspection.



Suitable for performing semiconductor inspections using SWIR wavelengths

VS-TCM1-65CO/S-RIR Telecentric

Can be used for imaging between visible spectrum and 1200nm light, without focus shifting

See the "invisible" What is SWIR?

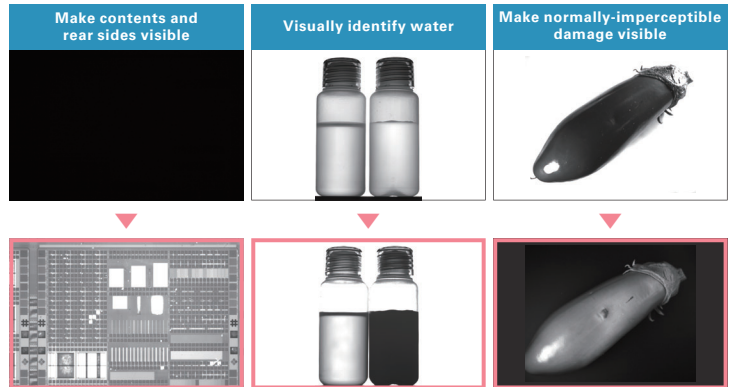
SWIR passes through specific materials, such as silicon and resin, making it possible to perform a variety of inspections.

See our lineup of VST SWIR products ▼

Fixed Focal Length Lenses



Telecentric



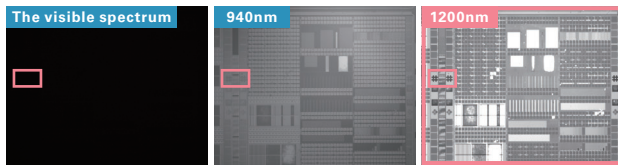
* Images include images taken with VS Technology lenses other than the VS-TCM1-65CO/S-RIR.

Testing with ▶ Wafer patterns

With VS-TCM1-65CO/S-RIR, different inspections can be performed simply by changing the lighting wavelength. The image remains in focus even if the wavelength is changed.

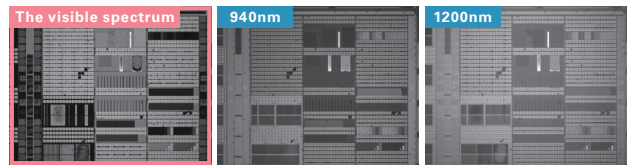
Change lighting wavelength × Focus shift correction

▶ Imaging with different backlight wavelengths



Alignment marks can be clearly seen

▶ Imaging with different spot light wavelengths



Surface defects can be clearly seen

Specifications

Opt. Mag	1.0x ±5 %
WD(mm)	65.0 mm ±2
O/I(mm)	164.0 mm
Working F/# *Value at Iris Open	7.5
DOF at PCoCØ0.04mm	0.6 mm
TV Distortion(2/3")	0.01 %
Wavelength	600 nm, 1200 nm
Mount	C-Mount
Sensor Size(max.)	2/3"
Co-Axial Prism	Built-in
Weight(approx.)	110 g
Dimension	φ30(max.) x L = 81.5 mm



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Please feel free to contact us if you have any questions.

