



VS-LTC(Type-F)

Telecentric
SERIES

Telecentric Lenses for Area Scan Cameras &
Line Scan Cameras with $\varnothing 45\text{mm}$ or Smaller

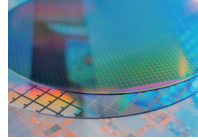


Supports sensors with image circle $\varnothing 45\text{mm}$ or smaller,
such as 65MP 3.2 μm

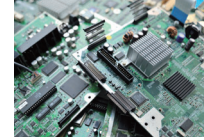
Applications

- Reduces the number of image capture of the entire object, contributing to improved inspection cycles.
- Capable of capturing fine objects with high contrast

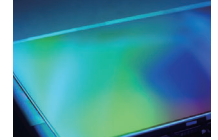
Semiconductor



Substrate



Mini LEDs, etc.



Features

- Designed for bright, high-definition images
- Minimized center-to-periphery differences for use across the entire screen area
- Reduced chromatic aberration and high contrast against color cameras
- Works with both area scan and line scan cameras

■ Difference of visible image by magnification

Case 1: Field of View

■ Optical magnification 1x

■ Optical magnification 5x



There is a 25x difference in field of view size between 1x and 5x. 1x provides a wider field of view.

Case 2: Optical resolution

■ Optical magnification 1x

■ Optical magnification 5x



The number of pixels comprising a defect differs between 1x and 5x.

5x has more pixels comprising a defect, which is favorable for image processing.

Magnification can be considered according to "what you want to do".

Co-axial flat light for LTC(Type-F)

VLCX-LTC Series

Dedicated design for high luminance surface emitting co-axial lighting to illuminate the field of view uniformly and brightly.



Installation Image



Model	LED Emission Color	Power Consumption	Size (mm)			
			Long side	Short side	Height	light emitting area
VLCX-0303□	W	8.1W	52.0	35.0	45.6	□30.0
	R	5.6W				
	B	8.1W				
	G*	8.1W				

*Enter the color of the light in the □ under Model.

*Specifications are subject to change without notice.

*G (green) is a made-to-order product.

Lens Lineup

Model no.	Mag	WD	O/I	Working F	NA	Coaxial	Non coaxial	Image Circle	Compatible mounts
VS-LTC1-130(CO)-45/FS	1.0x	130mm	411mm	6.4	0.078	○	○	φ45	F
VS-LTC1.5-130(CO)-45/FS	1.5x	130mm	475mm	9.6	0.078	○	○	φ43	F
VS-LTC2-130(CO)-45/FS	2.0x	130mm	499mm	8.3	0.120	○	○	φ45	F
NEW! VS-LTC3.5-80CO-45/S	3.5x	80mm	364mm	11.1	0.158	○	Customizable	φ45	M52*
NEW! VS-LTC5-80CO-45/S	5.0x	80mm	399mm	15.8	0.158	○	Customizable	φ45	M52*

*Mounts can be selected to match the camera. Standard support (F/M42/TFL, etc.), others are available for customization.

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

