

*Designing for Trust*

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**Large FOV Telecentric**

# VS-TLS

3.45  $\mu\text{m}$

SERIES

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Supports 12MP 1.1"  
Front Unit-Rear Unit Reconfigurable Telecentric Lens

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Fixed Magnification: 0.029x ~ 0.1x / 6 models  
Max. FOV (Diagonal) 275mm

## Supports 12MP 1.1" Front Unit-Rear Unit Reconfigurable Telecentric Lens

### Features

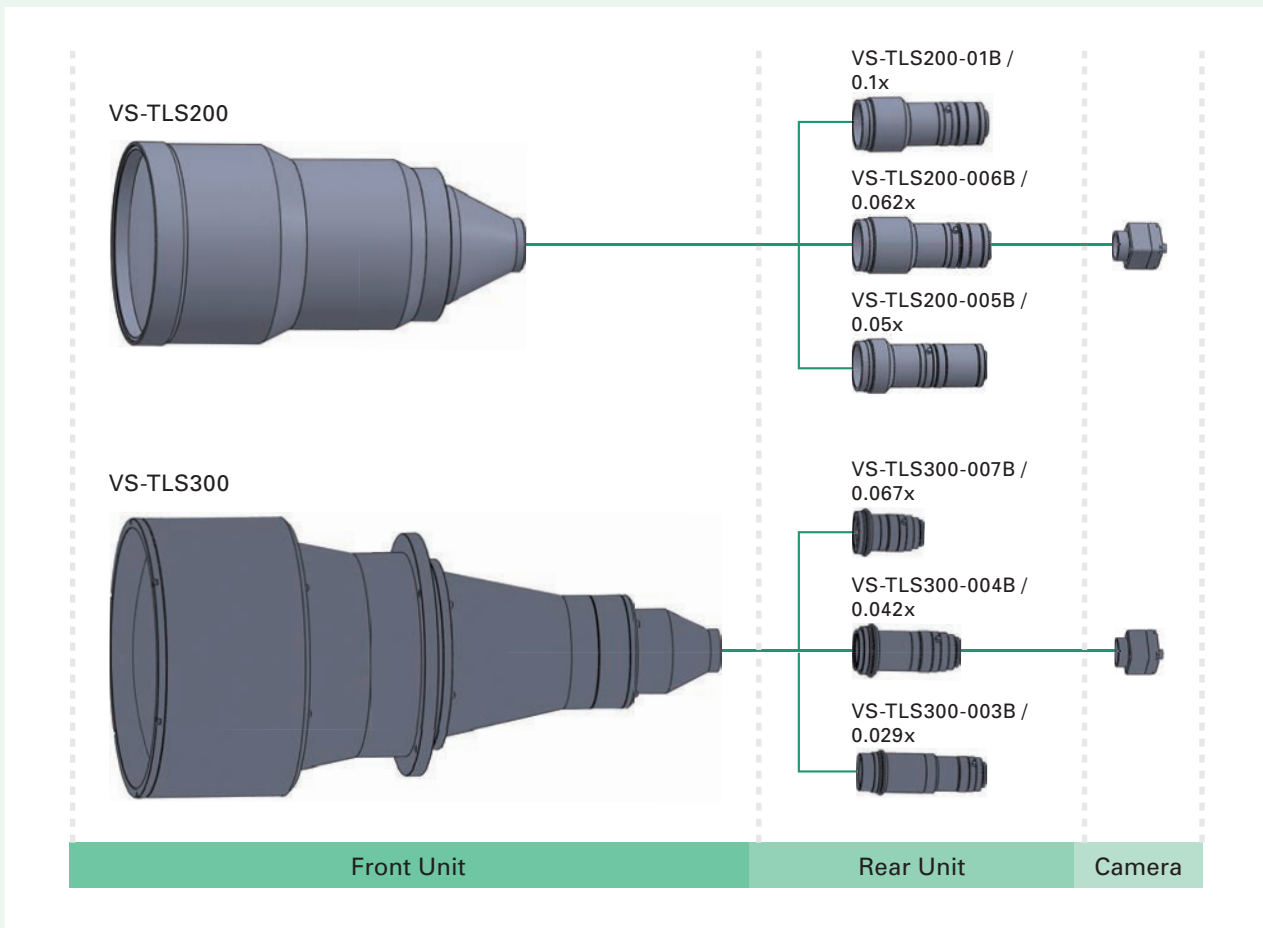
- 3.45 $\mu$ m Resolution
- 6 models 0.029x~ 0.1x
- Magnification can be changed by changing the rear unit
- Fine tuning of WD is possible by the focus adjustment
- Distortion-less Design



### 3 Magnifications available by changing the combination of front and rear units

Changing the magnification is cost effective and easy to fine tune with the focus function

Wide range of FOV options are available by the combination with various camera sensor size.





## Specifications

	Front Unit Model No.	Rear Unit Model No.	Opt. Mag.	TV Distortion	WD (mm)	O/I (mm)	Sensor Size (Max.)	Dimension
TLS200	VS-TLS200	VS-TLS200-01B	0.1	0.06%	301	825	1.1"	φ205(max.)xL=506.5 mm
	VS-TLS200	VS-TLS200-006B	0.062	0.05%	301	825	2/3"	φ205(max.)xL=506.5 mm
	VS-TLS200	VS-TLS200-005B	0.05	0.04%	301	825	1/1.8"	φ205(max.)xL=506.5 mm
TLS300	VS-TLS300	VS-TLS300-007B	0.067	-0.03%	500	1250	1.1"	φ300(max.)xL=732.5 mm
	VS-TLS300	VS-TLS300-004B	0.042	0.01%	500	1220	2/3"	φ300(max.)xL=702.5 mm
	VS-TLS300	VS-TLS300-003B	0.029	0.01%	500	1200	1/2"	φ300(max.)xL=682.5 mm

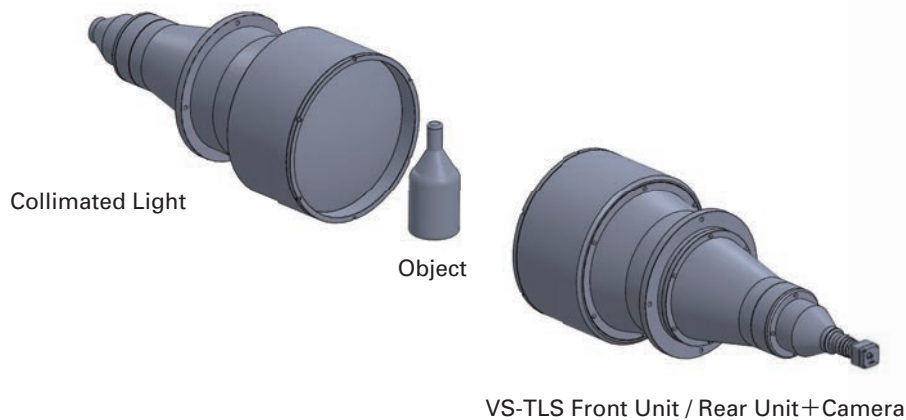
	Front Unit Model No.	Rear Unit Model No.	Opt. Mag.	FOV (mm)			
				1.1"	2/3"	1/1.8"	1/2"
TLS200	VS-TLS200	VS-TLS200-01B	0.1	141.0 x 103.0	84.0 x 71.0	71.0 x 54.0	64.0 x 48.0
	VS-TLS200	VS-TLS200-006B	0.062	-	135.5 x 114.5	114.5 x 87.1	103.2 x 77.4
	VS-TLS200	VS-TLS200-005B	0.05	-	-	142.0 x 108.0	128.0 x 96.0
TLS300	VS-TLS300	VS-TLS300-007B	0.067	210.4 x 153.7	125.4 x 106.0	106.0 x 80.6	95.5 x 71.6
	VS-TLS300	VS-TLS300-004B	0.042	-	200.0 x 169.0	169.0 x 128.6	152.4 x 114.3
	VS-TLS300	VS-TLS300-003B	0.029	-	-	-	220.7 x 165.5

Please refer another FOV table on page 4.

※VS-TLS300 and Rear Unit (007B-004B-003B) will be available around Sep, 2020.

**Collimated light or flat back light solutions are also available for the VS-TLS series.**

### Set-up Example



Sample Image : Glass Bottle



## FOV Table

FOV(H) (mm)	FOV(V) (mm)	Sensor Size	Opt. Mag.	Front Unit	Rear Unit
210.4	153.7	1/2"	0.029	VS-TLS300	VS-TLS300-003B
210.4	153.7	1.1"	0.067	VS-TLS300	VS-TLS300-007B
200.0	169.0	2/3"	0.042	VS-TLS300	VS-TLS300-004B
169.0	128.6	1/1.8"	0.042	VS-TLS300	VS-TLS300-004B
168.1	168.1	1"	0.067	VS-TLS300	VS-TLS300-007B
165.5	124.1	1/3"	0.029	VS-TLS300	VS-TLS300-003B
152.4	114.3	1/2"	0.042	VS-TLS300	VS-TLS300-004B
142.0	108.0	1/1.8"	0.05	VS-TLS200	VS-TLS200-005B
141.0	103.0	1.1"	0.1	VS-TLS200	VS-TLS200-01B
135.5	114.5	2/3"	0.062	VS-TLS200	VS-TLS200-006B
128.0	96.0	1/2"	0.05	VS-TLS200	VS-TLS200-005B
125.4	106.0	2/3"	0.067	VS-TLS300	VS-TLS300-007B
114.5	87.1	1/1.8"	0.062	VS-TLS200	VS-TLS200-006B
114.3	85.7	1/3"	0.042	VS-TLS300	VS-TLS300-004B
112.6	112.6	1"	0.1	VS-TLS200	VS-TLS200-01B
106.0	80.6	1/1.8"	0.067	VS-TLS300	VS-TLS300-007B
103.2	77.4	1/2"	0.062	VS-TLS200	VS-TLS200-006B
96.0	72.0	1/3"	0.05	VS-TLS200	VS-TLS200-005B
95.5	71.6	1/2"	0.067	VS-TLS300	VS-TLS300-007B
84.0	71.0	2/3"	0.1	VS-TLS200	VS-TLS200-01B
77.4	58.1	1/3"	0.062	VS-TLS200	VS-TLS200-006B
71.6	53.7	1/3"	0.067	VS-TLS300	VS-TLS300-007B
71.0	54.0	1/1.8"	0.1	VS-TLS200	VS-TLS200-01B
64.0	48.0	1/2"	0.1	VS-TLS200	VS-TLS200-01B
48.0	36.0	1/3"	0.1	VS-TLS200	VS-TLS200-01B

Actual FOV may be slightly different from the above table due to camera sensor size

## Applications



Glass Bottles



Automobile Parts

## International Sales Offices

**VST Europe (Winterthur)**  
TEL: +41-52-508-0109

**VST Poland (Warsaw)**  
TEL: +48-22-492-6683

**VST Vietnam (Hanoi)**  
TEL: +84-24-6327-8566

**VST Shenzhen (Shenzhen)**  
TEL: +86-755-8273-1420

**VST Taiwan (Hsinchu)**  
TEL: +886-3-668-1381(ext.9)

**VST America (Santa Clara)**  
TEL: +1-408-753-5115

**VST Europe (Amsterdam)**  
TEL: +31-20-305-1310

**VST Russia (Moscow)**  
TEL: +7-926-585-4721

**VST India (Bengaluru)**  
TEL: +91-80888-31893

**VST Shenzhen (Shanghai)**  
TEL: +86-21-6255-0725

**VST Taiwan (Kaohsiung)**  
TEL: +886-7-586-8957

**VST Mexico (Guadalajara)**  
TEL: +52-33-3002-4076

**VST Europe (Paris)**  
TEL: +33-1-8288-5798

**VST Thailand (Bangkok)**  
TEL: +662-260-0912

**VST Korea (Seoul)**  
TEL: +82-2-2183-3848

**VST Taiwan (Taipei)**  
TEL: +886-2-2531-2036