

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

35mm Chip Support



DTTL Series

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Target camera



■ Professional customization
of multiples and depth of field

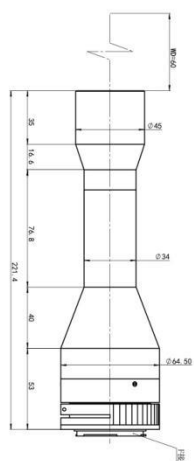
■ Dual telecentric design
High definition Standard F
interface

■ Can be equipped with a
dedicated parallel light

■ For high-precision
detection and measurement

Lens Model	Mag	WD	DOF	Telecen	Optical	Aperture	Mtf>0.3	Mount	4/3"	4K*7	2"DALSA 12M
			mm	-tricity	distortion	F/#	(lp/mm)		(18*13.5)mm	(22.5*16.9)mm	(24.5*18.4)mm
DTTL60-15X33	1.5X	60	0.7	<0.1	<0.1	19	50	F	12*9	15*11.3	16.3*12.3
DTTL65-1X33	1X	65	0.9	<0.1	<0.1	11	88	F	18*13.5	22.5*16.9	24.5*18.4
DTTL125-095X33	0.95X	125	1.1	<0.1	<0.1	16	48	F	18.9*14.2	23.7*17.8	25.8*19.4
DTTL140-07X33	0.7X	140	2.1	<0.1	<0.1	13	72	F	25.7*19.3	32.1*24.1	35*26.3
DTTL110-063X33	0.63X	110	3.0	<0.1	<0.1	14	56	F	28.6*21.4	35.7*26.8	38.9*29.2
DTTL100-058X33	0.58X	100	2.0	<0.1	<0.1	8	96	F	31*23.3	38.8*29.1	42.2*31.7
DTTL175-054X33	0.54X	175	3.8	<0.1	<0.1	14	64	F	33.3*25	41.7*31.3	45.4*34.1
DTTL230-05X33	0.5X	230	5.9	<0.1	<0.1	19	50	F	36*27	45*33.8	49*36.8
DTTL220-045X33	0.45X	220	4.2	<0.1	<0.1	10	80	F	40*30	50*37.6	54.4*40.9
DTTL290-038X33	0.38X	290	6.0	<0.1	<0.1	11	78	F	47.4*35.5	59.2*44.5	64.5*48.4
DTTL322-032X33	0.32X	322	8.6	<0.1	<0.1	11	90	F	56.3*42.2	70.3*52.8	76.6*57.5
DTTL342-025X33	0.25X	342	12.7	<0.1	<0.1	10	95	F	72*54	90*67.6	98*73.6
DTTL410-019X33	0.19X	410	24.0	<0.1	<0.1	10	88	F	94.7*71.1	118.4*88.9	128.9*96.8
DTTL540-0142X33	0.142X	540	32.3	<0.1	<0.1	8	120	F	126.8*95.1	158.5*119	172.5*129.6
DTTL545-0113X33	0.113X	545	56.2	<0.1	<0.1	9	98	F	159.3*119.5	199.1*149.6	216.8*162.8

DTTL60-15X33



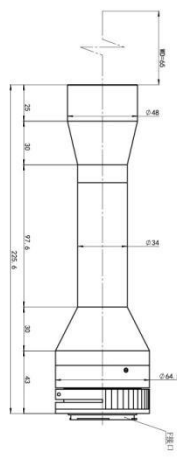
Main parameters

Mag	1.5X
WD	60
DOF(mm)	0.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	19
MTF>0.3(lp/mm)	50
Mount	F

Field of view

4/3" (18*13.5)mm	12*9
4k*7(22.5*16.9)mm	15*11.3
2"DALSA12M(24.5*18.4)mm	16.3*12.3

DTTL65-1X33



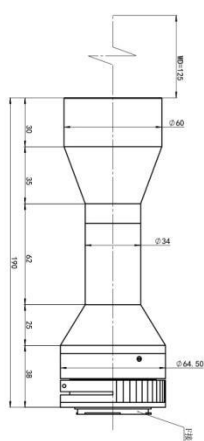
Main parameters

Mag	1X
WD	65
DOF(mm)	0.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	88
Mount	F

Field of view

4/3" (18*13.5)mm	18*13.5
4k*7(22.5*16.9)mm	22.5*16.9
2"DALSA12M(24.5*18.4)mm	24.5*18.4

DTTL125-095X33



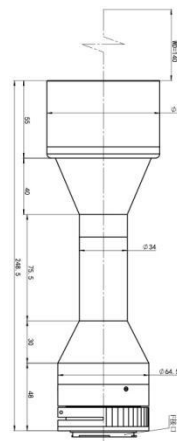
Main parameters

Mag	0.95X
WD	125
DOF(mm)	1.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	48
Mount	F

Field of view

4/3" (18*13.5)mm	18.9*14.2
4k*7(22.5*16.9)mm	23.7*17.8
2"DALSA12M(24.5*18.4)mm	25.8*19.4

DTTL140-07X33



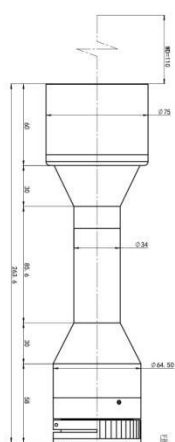
Main parameters

Mag	0.7X
WD	140
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	72
Mount	F

Field of view

4/3" (18*13.5)mm	25.7*19.3
4k*7(22.5*16.9)mm	32.1*24.1
2"DALSA12M(24.5*18.4)mm	35*26.3

DTTL110-063X33



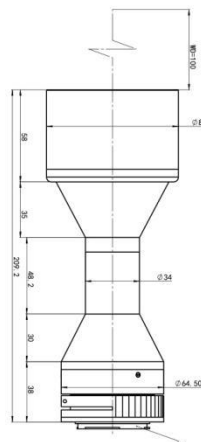
Main parameters

Mag	0.63X
WD	110
DOF(mm)	3.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	56
Mount	F

Field of view

4/3" (18*13.5)mm	28.6*21.4
4k*7(22.5*16.9)mm	35.7*26.8
2"DALSA12M(24.5*18.4)mm	38.9*29.2

DTTL100-058X33

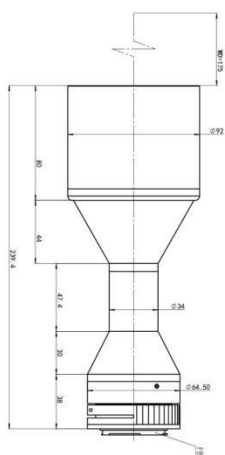


Main parameters

Mag	0.58X
WD	100
DOF(mm)	2.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	96
Mount	F

Field of view

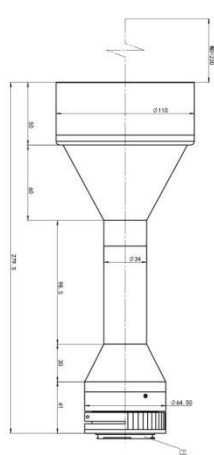
4/3" (18*13.5)mm	31*23.3
4k*7(22.5*16.9)mm	38.8*29.1
2"DALSA12M(24.5*18.4)mm	42.2*31.7

DTTL175-054X33**Main parameters**

Mag	0.54X
WD	175
DOF(mm)	3.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	64
Mount	F

Field of view

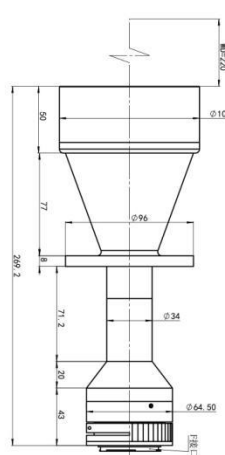
4/3" (18*13.5)mm	33.3°25'
4k*7(22.5*16.9)mm	41.7°31.3'
2"DALSA12M(24.5*18.4)mm	45.4°34.1'

DTTL230-05X33**Main parameters**

Mag	0.5X
WD	230
DOF(mm)	5.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	19
MTF>0.3(lp/mm)	50
Mount	F

Field of view

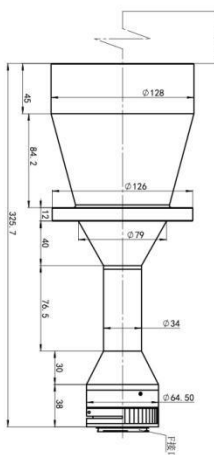
4/3" (18*13.5)mm	36°27'
4k*7(22.5*16.9)mm	45°33.8'
2"DALSA12M(24.5*18.4)mm	49°36.8'

DTTL220-045X33**Main parameters**

Mag	0.45X
WD	220
DOF(mm)	4.2
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	80
Mount	F

Field of view

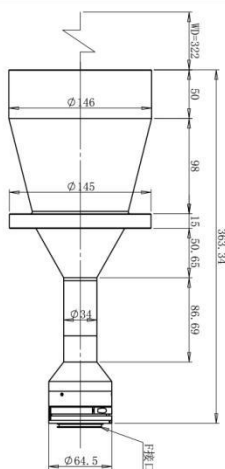
4/3" (18*13.5)mm	40°30'
4k*7(22.5*16.9)mm	50°37.6'
2"DALSA12M(24.5*18.4)mm	54.4°40.9'

DTTL290-038X33**Main parameters**

Mag	0.38X
WD	290
DOF(mm)	6.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	78
Mount	F

Field of view

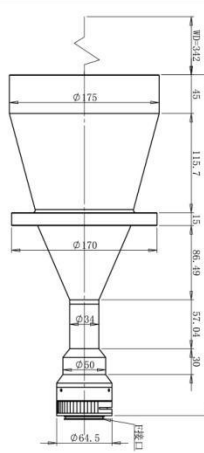
4/3" (18*13.5)mm	47.4°35.5'
4k*7(22.5*16.9)mm	59.2°44.5'
2"DALSA12M(24.5*18.4)mm	64.5°48.4'

DTTL322-032X33**Main parameters**

Mag	0.32X
WD	322
DOF(mm)	8.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	90
Mount	F

Field of view

4/3" (18*13.5)mm	56.3°42.2'
4k*7(22.5*16.9)mm	70.3°52.8'
2"DALSA12M(24.5*18.4)mm	76.6°57.5'

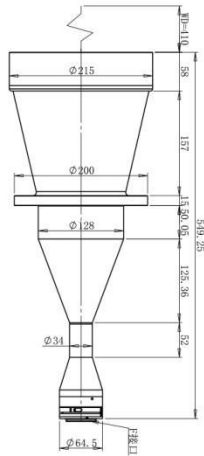
DTTL342-025X33**Main parameters**

Mag	0.25X
WD	342
DOF(mm)	12.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	95
Mount	F

Field of view

4/3" (18*13.5)mm	72°54'
4k*7(22.5*16.9)mm	90°67.6'
2"DALSA12M(24.5*18.4)mm	98°73.6'

DTTL410-019X33



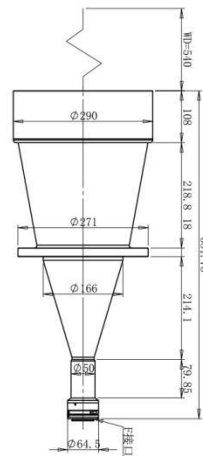
Main parameters

Mag	0.19X
WD	410
DOF(mm)	24.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	88
Mount	F

Field of view

4/3" (18*13.5)mm	94.7*71.1
4k*7(22.5*16.9)mm	118.4*88.9
2"DALSA12M(24.5*18.4)mm	128.9*96.8

DTTL540-0142X33



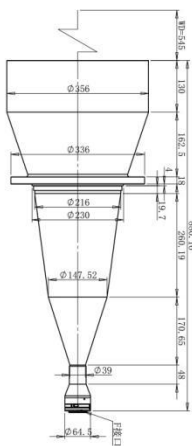
Main parameters

Mag	0.142X
WD	540
DOF(mm)	32.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	120
Mount	F

Field of view

4/3" (18*13.5)mm	126.8*95.1
4k*7(22.5*16.9)mm	158.5*119
2"DALSA12M(24.5*18.4)mm	172.5*129.6

DTTL545-0113X33



Main parameters

Mag	0.113X
WD	545
DOF(mm)	56.2
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	98
Mount	F

Field of view

4/3" (18*13.5)mm	159.3*119.5
4k*7(22.5*16.9)mm	199.1*149.6
2"DALSA12M(24.5*18.4)mm	216.8*162.8