

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

Support 12K



DTTL Series

Support 12K

Target camera



■ Professional customization of multiples and depth of field

■ Dual telecentric design High definition Standard M72 interface

■ Can be equipped with a dedicated parallel light

■ For high-precision detection and measurement

Lens Model	Mag	WD	DOF mm	Telecen- tricity	Optical distortion	Aperture F/#	Mtf>0.3 (lp/mm)	Mount	8K*5μm (4.94mm)	35 36*24mm (43mm)	KAI-47051 (48.7*29)	12k*5μm (61.4mm)
DTTL90-1.63F62	1.63X	90	0.5	<0.1	<0.1	16	50	M72	25.1	22.1*14.7	29.9*17.8	37.7
DTTL85-1.5F62	1.5X	85	0.7	<0.1	<0.1	19	48	M72	27.3	24*16	32.5*19.3	40.9
DTTL110-1.34F62	1.34X	110	0.7	<0.1	<0.1	14	56	M72	30.6	26.9*17.9	36.3*21.6	47.2
DTTL108-1.2F62	1.2X	108	0.7	<0.1	<0.1	13	56	M72	34.1	30*20	40.6*24.2	51.2
DTTL80-1F62	1.0X	80	0.9	<0.1	<0.1	11	64	M72	40.94	36*24	48.7*29	61.4
DTTL98-095F62	0.95X	98	1.6	<0.1	<0.1	18	48	M72	43.1	37.9*25.3	51.3*30.5	64.6
DTTL175-081F62	0.81X	175	3.3	<0.1	<0.1	27	36	M72	50.5	44.4*29.6	60.1*35.8	75.8
DTTL140-078F62	0.78X	140	2.1	<0.1	<0.1	16	56	M72	52.5	46.2*30.8	62.4*37.2	78.7
DTTL150-069F62	0.69X	150	2.9	<0.1	<0.1	17	48	M72	59.3	52.2*34.8	70.6*42	89
DTTL150-062F62	0.62X	150	2.6	<0.1	<0.1	12	72	M72	66	58.1*38.7	78.5*46.8	99
DTTL170-058F62	0.58X	170	3.7	<0.1	<0.1	15	60	M72	70.6	62.1*41.4	84*50	105.9
DTTL160-049F62	0.49X	160	5.3	<0.1	<0.1	15	54	M72	83.6	73.5*49	99.4*59.2	125.3
DTTL270-038F62	0.38X	270	10.1	<0.1	<0.1	19	48	M72	107.7	94.7*63.2	128.2*76.3	161.6
DTTL290-034F62	0.34X	290	9.3	<0.1	<0.1	13	58	M72	120.4	105.9*70.6	143.2*85.3	180.6
DTTL360-0295F62	0.295X	360	11.6	<0.1	<0.1	12	76	M72	138.8	122*81.4	165.1*93.3	208.1
DTTL370-0258F62	0.258X	370	16.0	<0.1	<0.1	13	66.5	M72	158.7	139.5*93	188.8*112.4	238
DTTL510-02F62	0.2X	510	26.6	<0.1	<0.1	8	76	M72	204.7	180*120	243.5*145	307

DTTL90-1.63F62



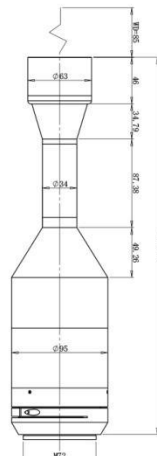
Main parameters

Mag	1.63X
WD	90
DOF(mm)	0.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	50
Mount	M72

Field of view

8k*5um (40.94mm)	25.1
35 36*24mm(43mm)	22.1*14.7
KAI-47051 (48.7*29)	29.9*17.8
12K*5um(61.4mm)	37.7

DTTL85-1.5F62



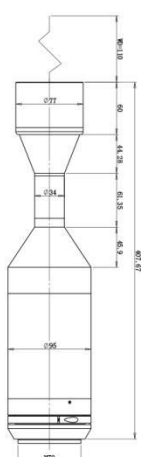
Main parameters

Mag	1.5X
WD	85
DOF(mm)	0.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	19
MTF>0.3(lp/mm)	48
Mount	M72

Field of view

8k*5um (40.94mm)	27.3
35 36*24mm(43mm)	24*16
KAI-47051 (48.7*29)	32.5*19.3
12K*5um(61.4mm)	40.9

DTTL110-1.34F62



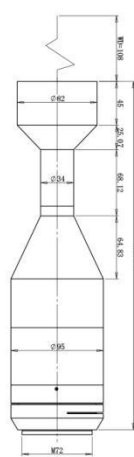
Main parameters

Mag	1.34X
WD	110
DOF(mm)	0.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	56
Mount	M72

Field of view

8k*5um (40.94mm)	30.6
35 36*24mm(43mm)	26.9*17.9
KAI-47051 (48.7*29)	36.3*21.6
12K*5um(61.4mm)	47.2

DTTL108-1.2F62



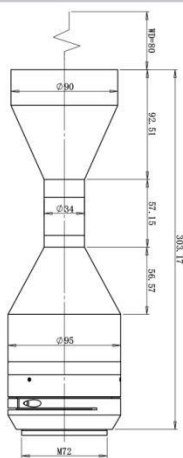
Main parameters

Mag	1.2X
WD	108
DOF(mm)	0.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	56
Mount	M72

Field of view

8k*5um (40.94mm)	34.1
35 36*24mm(43mm)	30*20
KAI-47051 (48.7*29)	40.6*24.2
12K*5um(61.4mm)	51.2

DTTL80-1F62



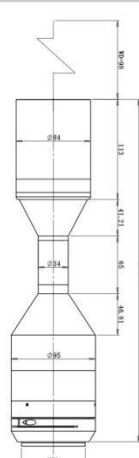
Main parameters

Mag	1.0X
WD	80
DOF(mm)	0.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	64
Mount	M72

Field of view

8k*5um (40.94mm)	40.94
35 36*24mm(43mm)	36*24
KAI-47051 (48.7*29)	48.7*29
12K*5um(61.4mm)	61.4

DTTL98-095F62



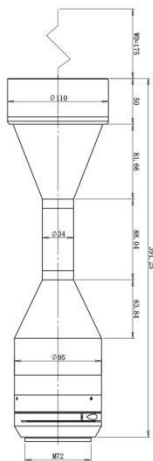
Main parameters

Mag	0.95X
WD	98
DOF(mm)	1.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	18
MTF>0.3(lp/mm)	48
Mount	M72

Field of view

8k*5um (40.94mm)	43.1
35 36*24mm(43mm)	37.9*25.3
KAI-47051 (48.7*29)	51.3*30.5
12K*5um(61.4mm)	64.6

DTTL175-081F62



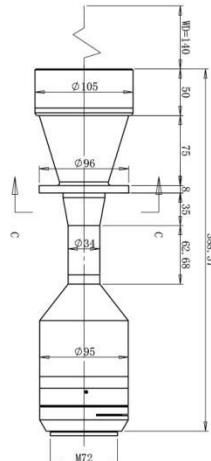
Main parameters

Mag	0.81X
WD	175
DOF(mm)	3.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	27
MTF>0.3(lp/mm)	36
Mount	M72

Field of view

8k*5um (40.94mm)	50.5
35 36*24mm(43mm)	44.4*29.6
KAI-47051 (48.7*29)	60.1*35.8
12K*5um(61.4mm)	75.8

DTTL140-078F62



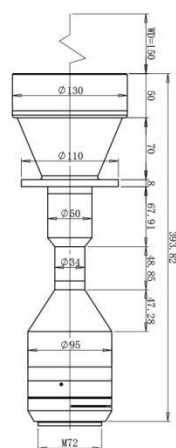
Main parameters

Mag	0.78X
WD	140
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	56
Mount	M72

Field of view

8k*5um (40.94mm)	52.5
35 36*24mm(43mm)	46.2*30.8
KAI-47051 (48.7*29)	62.4*37.2
12K*5um(61.4mm)	78.7

DTTL150-069F62



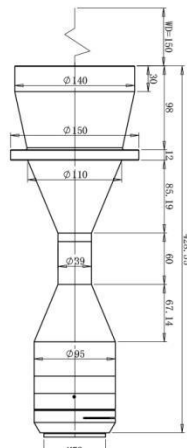
Main parameters

Mag	0.69X
WD	150
DOF(mm)	2.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	17
MTF>0.3(lp/mm)	48
Mount	M72

Field of view

8k*5um (40.94mm)	59.3
35 36*24mm(43mm)	52.2*34.8
KAI-47051 (48.7*29)	70.6*42
12K*5um(61.4mm)	89

DTTL150-062F62



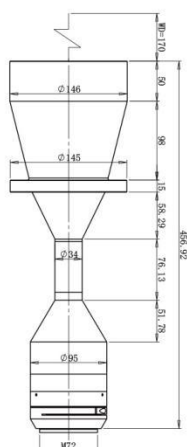
Main parameters

Mag	0.62X
WD	150
DOF(mm)	2.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	12
MTF>0.3(lp/mm)	72
Mount	M72

Field of view

8k*5um (40.94mm)	66
35 36*24mm(43mm)	58.1*38.7
KAI-47051 (48.7*29)	78.5*46.8
12K*5um(61.4mm)	99

DTTL170-058F62



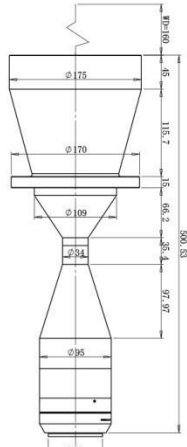
Main parameters

Mag	0.58X
WD	170
DOF(mm)	3.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	60
Mount	M72

Field of view

8k*5um (40.94mm)	70.6
35 36*24mm(43mm)	62.1*41.4
KAI-47051 (48.7*29)	84*50
12K*5um(61.4mm)	105.9

DTTL160-049F62



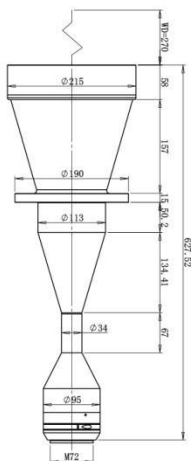
Main parameters

Mag	0.49X
WD	160
DOF(mm)	5.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	54
Mount	M72

Field of view

8k*5um (40.94mm)	83.6
35 36*24mm(43mm)	73.5*49
KAI-47051 (48.7*29)	99.4*59.2
12K*5um(61.4mm)	125.3

DTTL270-038F62



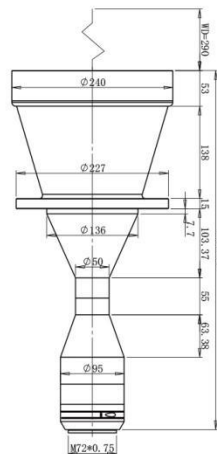
Main parameters

Mag	0.38X
WD	270
DOF(mm)	10.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	19
MTF>0.3(lp/mm)	48
Mount	M72

Field of view

8k*5um (40.94mm)	107.7
35 36*24mm(43mm)	94.7*63.2
KAI-47051 (48.7*29)	128.2*76.3
12K*5um(61.4mm)	161.6

DTTL290-034F62



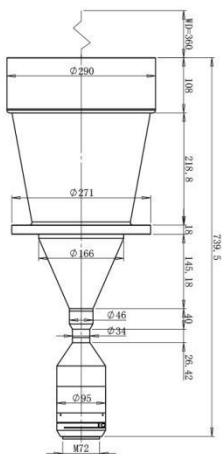
Main parameters

Mag	0.34X
WD	290
DOF(mm)	9.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	58
Mount	M72

Field of view

8k*5um (40.94mm)	120.4
35 36*24mm(43mm)	105.9*70.6
KAI-47051 (48.7*29)	143.2*85.3
12K*5um(61.4mm)	180.6

DTTL360-0295F62



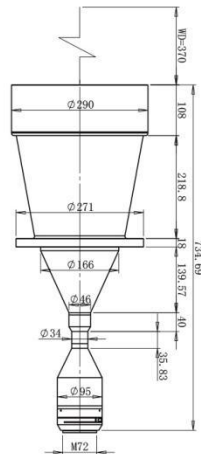
Main parameters

Mag	0.295X
WD	360
DOF(mm)	11.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	12
MTF>0.3(lp/mm)	76
Mount	M72

Field of view

8k*5um (40.94mm)	138.8
35 36*24mm(43mm)	122*81.4
KAI-47051 (48.7*29)	165.1*98.3
12K*5um(61.4mm)	208.1

DTTL370-0258F62



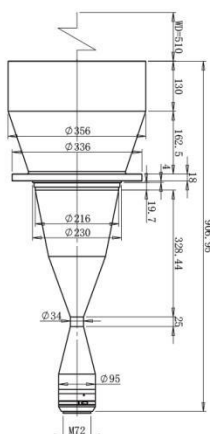
Main parameters

Mag	0.258X
WD	370
DOF(mm)	16.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	66.5
Mount	M72

Field of view

8k*5um (40.94mm)	158.7
35 36*24mm(43mm)	139.5*93
KAI-47051 (48.7*29)	188.8*112.4
12K*5um(61.4mm)	238

DTTL510-02F62



Main parameters

Mag	0.2X
WD	510
DOF(mm)	26.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	76
Mount	M72

Field of view

8k*5um (40.94mm)	204.7
35 36*24mm(43mm)	180*120
KAI-47051 (48.7*29)	243.5*145
12K*5um(61.4mm)	307