

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

1/2.5 Chip Support



DTTL Series

1/2.5 Chip Support

Target camera



■ Professional customization
of multiples and depth of field

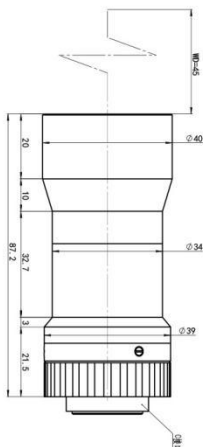
■ Dual telecentric design
High definition Standard C
interface

■ 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	1/3"	1/2.5"
			mm	-tricity	distortion	F/#	(lp/mm)		(4.8*3.6)mm	(5.7*4.28)mm
DTTL45-03X25	0.3X	45	2.1	<0.1	<0.1	4	200	C	16*12	19*14.3
DTTL80-028X25	0.28X	80	3.7	<0.1	<0.1	5	200	C	17.1*12.9	20.4*15.3
DTTL60-021X25	0.21X	60	5	<0.1	<0.1	5	200	C	22.9*17.1	27.1*20.4
DTTL118-02X25	0.2X	118	6	<0.1	<0.1	5	200	C	24*18	28.5*21.4
DTTL130-018X25	0.18X	130	12	<0.1	<0.1	9	200	C	26.7*20	31.7*23.8
DTTL120-015X25	0.15X	120	12	<0.1	<0.1	5	150	C	32*24	38*28.5
DTTL150-013X25	0.13X	150	15	<0.1	<0.1	5	170	C	36.9*27.7	43.8*32.9
DTTL165-012X25	0.12X	165	18	<0.1	<0.1	5	200	C	40*30	47.5*35.7
DTTL180-01*25	0.1X	180	22	<0.1	<0.1	5	180	C	48*36	57*42.8
DTTL240-009X25	0.09X	240	25	<0.1	<0.1	5	200	C	53.3*40	63.3*47.6
DTTL200-008X25	0.08X	200	30	<0.1	<0.1	6	170	C	60*45	71.3*53.5
DTTL220-0072X25	0.072X	220	32	<0.1	<0.1	5	200	C	66.7*50	79.2*59.4
DTTL360-0066X25	0.066X	360	35	<0.1	<0.1	8	120	C	72.7*54.5	86.4*64.8
DTTL285-006X25	0.06X	285	38	<0.1	<0.1	5	200	C	80*60	95*71.3
DTTL300-0048X25	0.048X	300	40	<0.1	<0.1	6	200	C	100*75	118.8*89.2
DTTL340-0038X25	0.038X	340	42	<0.1	<0.1	5	200	C	126.3*94.7	150*112.6
DTTL436-003X25	0.03X	436	43	<0.1	<0.1	6	150	C	160*120	190*142.7
DTTL470-0023X25	0.023X	470	45	<0.1	<0.1	5	200	C	208.7*156.5	247.8*186.1

DTTL45-03X25



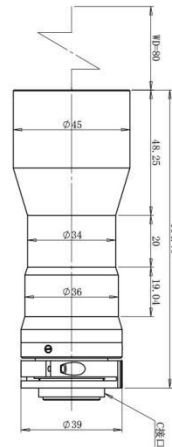
Main parameters

Mag	0.3X
WD	45
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	16*12
1/2.5"(5.7*4.28)mm	19*14.3

DTTL80-028X25



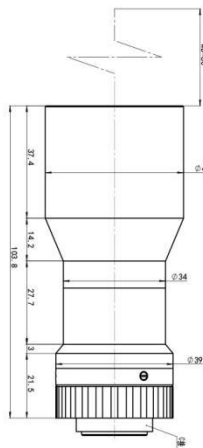
Main parameters

Mag	0.28X
WD	80
DOF(mm)	3.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	17.1*12.9
1/2.5"(5.7*4.28)mm	20.4*15.3

DTTL60-021X25



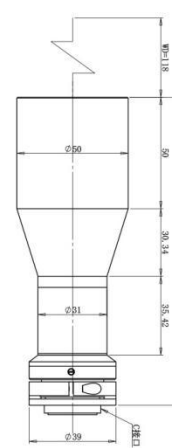
Main parameters

Mag	0.21X
WD	60
DOF(mm)	5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	22.9*17.1
1/2.5"(5.7*4.28)mm	27.1*20.4

DTTL118-02X25



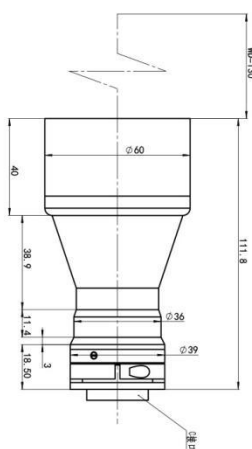
Main parameters

Mag	0.2X
WD	118
DOF(mm)	6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	24*18
1/2.5"(5.7*4.28)mm	28.5*21.4

DTTL130-018X25



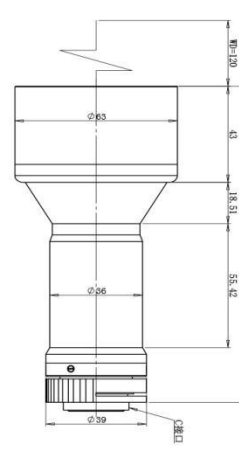
Main parameters

Mag	0.18X
WD	130
DOF(mm)	12
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	26.7*20
1/2.5"(5.7*4.28)mm	31.7*23.8

DTTL120-015X25



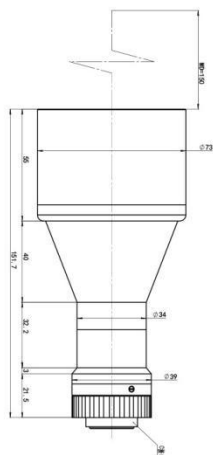
Main parameters

Mag	0.15X
WD	120
DOF(mm)	12
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	150
Mount	C

Field of view

1/3"(4.8*3.6)mm	32*24
1/2.5"(5.7*4.28)mm	38*28.5

DTTL150-013X25



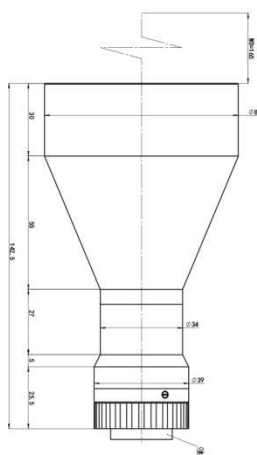
Main parameters

Mag	0.13X
WD	150
DOF(mm)	15
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	170
Mount	C

Field of view

1/3"(4.8*3.6)mm	36.9*27.7
1/2.5"(5.7*4.28)mm	43.8*32.9

DTTL165-012X25



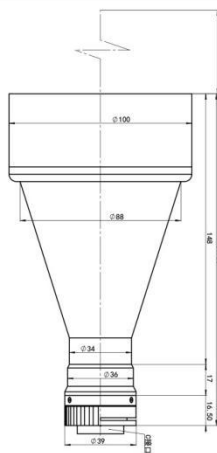
Main parameters

Mag	0.12X
WD	165
DOF(mm)	18
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	40*30
1/2.5"(5.7*4.28)mm	47.5*35.7

DTTL180-01X25



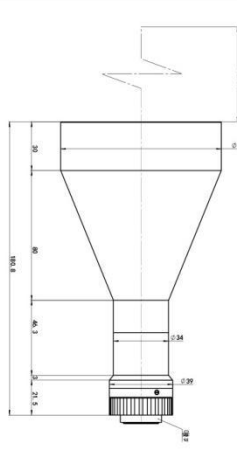
Main parameters

Mag	0.1X
WD	180
DOF(mm)	22
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	180
Mount	C

Field of view

1/3"(4.8*3.6)mm	48*36
1/2.5"(5.7*4.28)mm	57*42.8

DTTL240-009X25



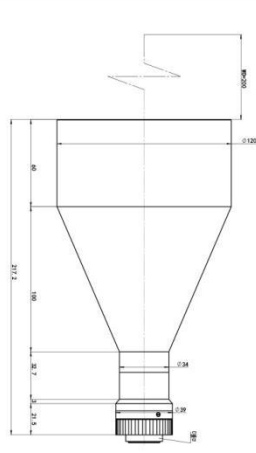
Main parameters

Mag	0.09X
WD	240
DOF(mm)	25
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	53.3*40
1/2.5"(5.7*4.28)mm	63.3*47.6

DTTL200-008X25



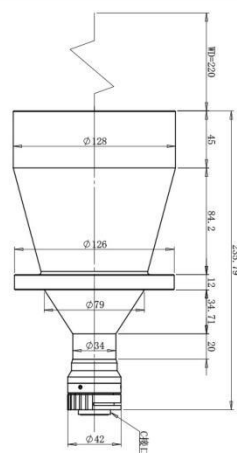
Main parameters

Mag	0.08X
WD	200
DOF(mm)	30
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	6
MTF>0.3(lp/mm)	170
Mount	C

Field of view

1/3"(4.8*3.6)mm	60*45
1/2.5"(5.7*4.28)mm	71.3*53.5

DTTL220-0072X25



Main parameters

Mag	0.072X
WD	220
DOF(mm)	32
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3"(4.8*3.6)mm	66.7*50
1/2.5"(5.7*4.28)mm	79.2*59.4

Mag	0.066X
WD	360
DOF(mm)	35
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	120
Mount	C

1/3"(4.8*3.6)mm	72.7*54.5
1/2.5"(5.7*4.28)mm	86.4*64.8

Mag	0.06X
WD	285
DOF(mm)	38
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

1/3"(4.8*3.6)mm	80*60
1/2.5"(5.7*4.28)mm	95*71.3

Technical drawing of a mechanical part, likely a nozzle or probe, showing a side view and a cross-section. The side view shows a tapered body with a flange and a threaded section at the bottom. Dimensions include a total length of 331.52, a top diameter of 175, a middle diameter of 170, and a bottom diameter of 39. A cross-section view at the bottom shows internal features and a 30° angle.

Mag	0.048X
WD	300
DOF(mm)	40
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	6
MTF>0.3(lp/mm)	200
Mount	C

1/3"(4.8*3.6)mm	100*75
1/2.5"(5.7*4.28)mm	118.8*89.2

Technical drawing of a tapered, flanged component. The drawing shows a side view with a break line at the top. Dimensions are given in millimeters (mm). The top flange has an outer diameter of $\phi 240$ and a thickness of 53 mm. The main body has a top diameter of $\phi 227$ and a height of 138 mm. The bottom flange has an outer diameter of $\phi 136$ and a thickness of 7.7 mm. The total height of the component is 318.29 mm. The bottom flange is labeled "CE 11". The bottom diameter is $\phi 39$. The bottom flange has a height of 11.67 mm. The top flange has a height of 53 mm. The main body has a height of 138 mm. The total height is 318.29 mm.

Mag	0.038X
WD	340
DOF(mm)	42
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

1/3"(4.8*3.6)mm	126.3*94.7
1/2.5"(5.7*4.28)mm	150*112.6

Technical drawing of a lamp with dimensions in mm. The drawing shows a side view of a lamp with a conical body. Dimensions include: top diameter 290, top flange thickness 58, body height 250, bottom flange thickness 18, bottom diameter 166, mounting bracket diameter 46, mounting bracket height 74.83, and mounting bracket base diameter 39. A vertical dimension of 316.83 is shown on the right side.

Mag	0.03X
WD	436
DOF(mm)	43
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	6
MTF>0.3(lp/mm)	150
Mount	C

1/3"(4.8*3.6)mm	160*120
1/2.5"(5.7*4.28)mm	190*142.7

Mag	0.023X
WD	470
DOF(mm)	45
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

1/3"(4.8*3.6)mm	208.7*156.5
1/2.5"(5.7*4.28)mm	247.8*186.1