

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

1/2 Chip Support



DTTL Series

1/2 Chip Support

Target camera



Professional customization of multiples and depth of field

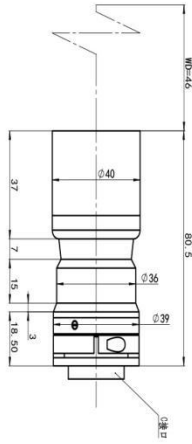
Dual telecentric design High definition Standard C interface

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"	1/2"
			mm	-tricity	distortion	F/#	(lp/mm)		(4.8*3.6)mm	(5.7*4.28)mm	(6.4*4.8)mm
DTTL46-034X6	0.34X	46	2.5	<0.1	<0.1	5	200	C	14.1*10.6	16.8*12.6	18.8*14.1
DTTL70-031X6	0.31X	70	4	<0.1	<0.1	6	160	C	15.5*11.6	18.4*13.8	20.6*15.5
DTTL55-026X6	0.26X	55	5.6	<0.1	<0.1	4	200	C	18.5*13.8	21.9*16.5	24.6*18.5
DTTL118-024X6	0.24X	118	6.6	<0.1	<0.1	4	200	C	20*15	23.8*17.8	26.7*20
DTTL130-020X6	0.2X	130	8.1	<0.1	<0.1	5	200	C	24*18	28.5*21.4	32*24
DTTL120-017X6	0.17X	120	13.1	<0.1	<0.1	7	130	C	28.2*21.2	33.5*25.2	37.6*28.2
DTTL200-016X6	0.16X	200	14.8	<0.1	<0.1	8	200	C	30*22.5	35.6*26.8	40*30
DTTL140-0144X6	0.144X	140	18.3	<0.1	<0.1	6	200	C	33.3*25	39.6*29.7	44.4*33.3
DTTL110-013X6	0.13X	110	18.5	<0.1	<0.1	5	160	C	36.9*27.7	43.8*32.9	49.2*36.9
DTTL150-0125X6	0.125X	150	19	<0.1	<0.1	4	220	C	38.4*28.8	45.6*34.2	51.2*38.4
DTTL200-012X6	0.12X	200	19.3	<0.1	<0.1	4	180	C	40*30	47.5*35.7	53.3*40
DTTL160-011X6	0.11X	160	19.5	<0.1	<0.1	4	200	C	43.6*32.7	51.8*38.9	58.2*43.6
DTTL185-009X6	0.09X	185	21	<0.1	<0.1	5	230	C	53.3*40	63.3*47.6	71.1*53.3
DTTL290-008X6	0.08X	290	23	<0.1	<0.1	4	200	C	60*45	71.3*53.5	80*60
DTTL340-0073X6	0.073X	340	25.5	<0.1	<0.1	7	150	C	65.8*49.3	78.1*58.6	87.7*65.8
DTTL250-007X6	0.07X	250	28	<0.1	<0.1	6	200	C	68.6*51.4	81.4*61.1	91.4*68.6
DTTL280-0067X6	0.067X	280	31	<0.1	<0.1	4	220	C	71.6*53.7	85.1*63.9	95.5*71.6
DTTL230-006X6	0.06X	230	33	<0.1	<0.1	5	180	C	80*60	95*71.3	106.7*80
DTTL290-0054X6	0.054X	290	35.2	<0.1	<0.1	5	180	C	88.9*66.7	105.6*79.3	118.5*88.9
DTTL320-005X6	0.05X	320	37.7	<0.1	<0.1	4	220	C	96*72	114*85.6	128*96
DTTL410-004X6	0.04X	410	41	<0.1	<0.1	5	200	C	120*90	142.5*107	160*120
DTTL380-0037X6	0.037X	380	42	<0.1	<0.1	4	220	C	129.7*97.3	154.1*115.7	173*129.7
DTTL480-003X6	0.03X	480	45	<0.1	<0.1	5	180	C	160*120	190*142	213.3*160
DTTL510-00258X6	0.0258X	510	48.1	<0.1	<0.1	5	200	C	186*139.5	220.9*165.9	248.1*186

DTTL46-034X6



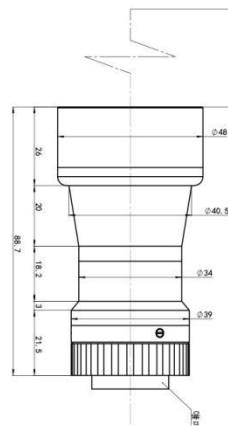
Main parameters

Mag	0.34X
WD	46
DOF(mm)	2.5
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	14.1*10.6
1/2.5" (5.7*4.28)mm	16.8*12.6
1/2" (6.4*4.8)mm	18.8*14.1

DTTL70-031X6



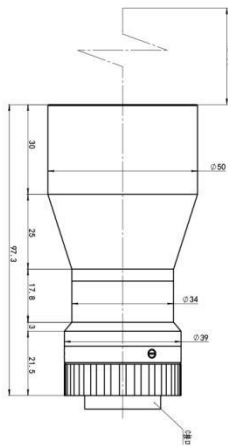
Main parameters

Mag	0.31X
WD	70
DOF(mm)	4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	6
MTF>0.3(lp/mm)	160
Mount	C

Field of view

1/3" (4.8*3.6)mm	15.5*11.6
1/2.5" (5.7*4.28)mm	18.4*13.8
1/2" (6.4*4.8)mm	20.6*15.5

DTTL55-026X6



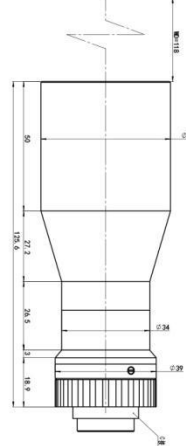
Main parameters

Mag	0.26X
WD	55
DOF(mm)	5.6
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	18.5*13.8
1/2.5" (5.7*4.28)mm	21.9*16.5
1/2" (6.4*4.8)mm	24.6*18.5

DTTL118-024X6



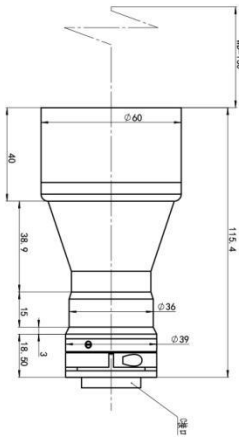
Main parameters

Mag	0.24X
WD	118
DOF(mm)	6.6
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	20*15
1/2.5" (5.7*4.28)mm	23.8*17.8
1/2" (6.4*4.8)mm	26.7*20

DTTL130-020X6



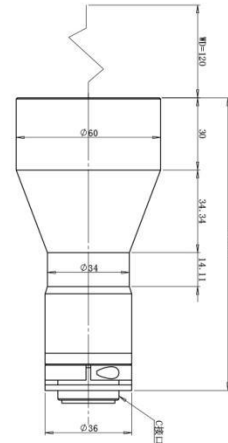
Main parameters

Mag	0.2X
WD	130
DOF(mm)	8.1
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
1/2" (6.4*4.8)mm	32*24

DTTL120-017X6



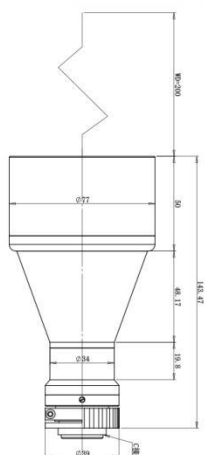
Main parameters

Mag	0.17X
WD	120
DOF(mm)	13.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	7
MTF>0.3(lp/mm)	130
Mount	C

Field of view

1/3" (4.8*3.6)mm	28.2*21.2
1/2.5" (5.7*4.28)mm	33.5*25.2
1/2" (6.4*4.8)mm	37.6*28.2

DTTL200-016X6



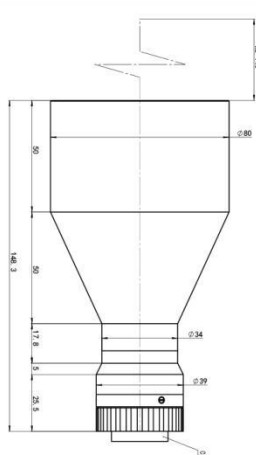
Main parameters

Mag	0.16X
WD	200
DOF(mm)	14.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3" (4.8*3.6)mm	30°22.5
1/2.5" (5.7*4.28)mm	35.6°26.8
1/2" (6.4*4.8)mm	40°30

DTTL140-0144X6



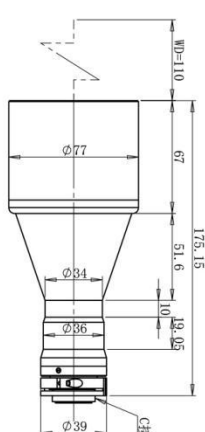
Main parameters

Mag	0.144X
WD	140
DOF(mm)	18.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	6
MTF>0.3(lp/mm)	200
Mount	C

Field of view

1/3" (4.8*3.6)mm	33.3°25
1/2.5" (5.7*4.28)mm	39.6°29.7
1/2" (6.4*4.8)mm	44.4°33.3

DTTL110-013X6



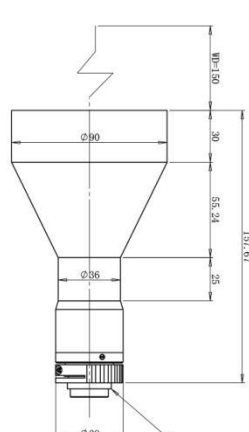
Main parameters

Mag	0.13X
WD	110
DOF(mm)	18.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	160
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
1/2" (6.4*4.8)mm	49.2°36.9

DTTL150-0125X6



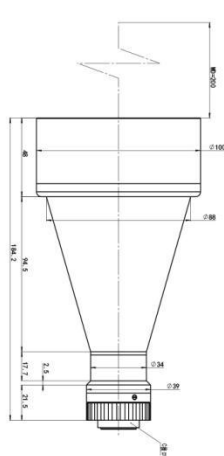
Main parameters

Mag	0.125X
WD	150
DOF(mm)	19
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	220
Mount	C

Field of view

1/3" (4.8*3.6)mm	38.4°28.8
1/2.5" (5.7*4.28)mm	45.6°34.2
1/2" (6.4*4.8)mm	51.2°38.4

DTTL200-012X6



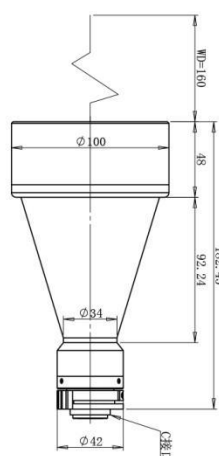
Main parameters

Mag	0.12X
WD	200
DOF(mm)	19.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	180
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
1/2" (6.4*4.8)mm	53.3°40

DTTL160-011X6



Main parameters

Mag	0.11X
WD	160
DOF(mm)	19.5
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	43.6°32.7
1/2.5" (5.7*4.28)mm	51.8°38.9
1/2" (6.4*4.8)mm	58.2°43.6

Mag	0.09X
WD	185
DOF(mm)	21
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	230
Mount	C

1/3" (4.8*3.6)mm	53.3*40
1/2.5" (5.7*4.28)mm	63.3*47.6
1/2" (6.4*4.8)mm	71.1*53.3

Mag	0.08X
WD	290
DOF(mm)	23
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	200
Mount	C

1/3" (4.8*3.6)mm	60*45
1/2.5" (5.7*4.28)mm	71.3*53.5
1/2" (6.4*4.8)mm	80*60

Technical drawing of a funnel-shaped component. The drawing shows a side view and a top view. The side view dimensions are: total height 267.1, top flange thickness 30, main body height 68, bottom flange thickness 12, and bottom section height 95. The top flange has an outer diameter of $\phi 140$. The bottom flange has an outer diameter of $\phi 150$. The bottom section has an outer diameter of $\phi 110$. The bottom section is divided into two parts: a top part with height 37.6 and an outer diameter of $\phi 34$, and a bottom part with height 3 and an outer diameter of $\phi 32$. The bottom part is labeled "排水口" (Drainage Port). The top view shows a circular shape with a diameter of $\phi 340$.

Mag	0.073X
WD	340
DOF(mm)	25.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	7
MTF>0.3(lp/mm)	150
Mount	C

1/3" (4.8*3.6)mm	65.8*49.3
1/2.5" (5.7*4.28)mm	78.1*58.6
1/2" (6.4*4.8)mm	87.7*65.8

Technical drawing of a vertical container with a conical bottom and a flange. The drawing includes the following dimensions and features:

- Top diameter: $\phi 38$
- Intermediate diameter: $\phi 139$
- Flange diameter: $\phi 100$
- Bottom diameter: $\phi 34$
- Flange diameter: $\phi 26$
- Height from top to intermediate diameter: 136.5
- Height from intermediate diameter to bottom: 308.8
- Height from bottom to flange: 71.4
- Height from flange to base: 13.70
- Total height: 530
- Break symbol at the top.
- Label "C22" pointing to the base.

Mag	0.07X
WD	250
DOF(mm)	28
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	68.6*51.4
1/2.5" (5.7*4.28)mm	81.4*61.1
1/2" (6.4*4.8)mm	91.4*68.6

Technical drawing of a tapered container with dimensions:

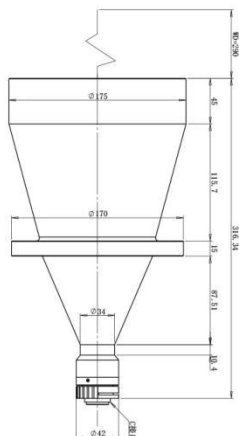
- Top diameter: $\Phi 146$
- Bottom diameter: $\Phi 145$
- Height: 267.21
- Top flange thickness: 15
- Bottom flange thickness: 15
- Bottom diameter: $\Phi 34$
- Bottom width: 42
- Bottom label: 3號

Mag	0.067X
WD	280
DOF(mm)	31
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	220
Mount	C

1/3" (4.8*3.6)mm	71.6*53.7
1/2.5" (5.7*4.28)mm	85.1*63.9
1/2" (6.4*4.8)mm	95.5*71.6

Mag	0.06X
WD	230
DOF(mm)	33
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	180
Mount	C

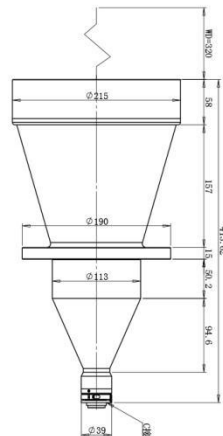
1/3" (4.8*3.6)mm	80*60
1/2.5" (5.7*4.28)mm	95*71.3
1/2" (6.4*4.8)mm	106.7*80

DTTL290-0054X6**Main parameters**

Mag	0.054X
WD	290
DOF(mm)	35.2
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	180
Mount	C

Field of view

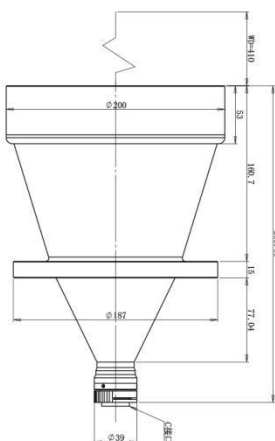
1/3" (4.8*3.6)mm	88.9*66.7
1/2.5"(5.7*4.28)mm	105.6*79.3
1/2"(6.4*4.8)mm	118.5*88.9

DTTL320-005X6**Main parameters**

Mag	0.05X
WD	320
DOF(mm)	37.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	220
Mount	C

Field of view

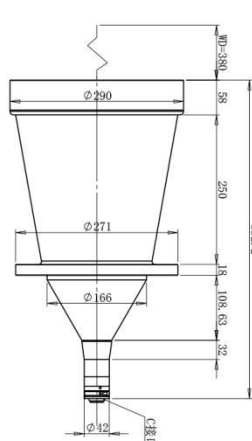
1/3" (4.8*3.6)mm	96*72
1/2.5"(5.7*4.28)mm	114*85.6
1/2"(6.4*4.8)mm	128*96

DTTL410-004X6**Main parameters**

Mag	0.04X
WD	410
DOF(mm)	41
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	5
MTF>0.3(lp/mm)	200
Mount	C

Field of view

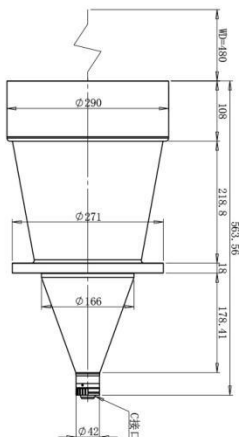
1/3" (4.8*3.6)mm	120*90
1/2.5"(5.7*4.28)mm	142.5*107
1/2"(6.4*4.8)mm	160*120

DTTL380-0037X6**Main parameters**

Mag	0.037X
WD	380
DOF(mm)	42
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	4
MTF>0.3(lp/mm)	220
Mount	C

Field of view

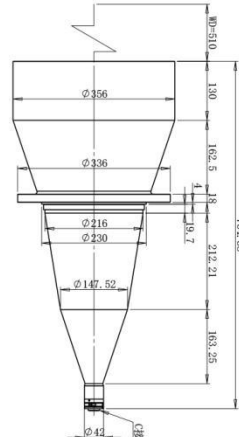
1/3" (4.8*3.6)mm	129.7*97.3
1/2.5"(5.7*4.28)mm	154.1*115.7
1/2"(6.4*4.8)mm	173*129.7

DTTL480-003X6**Main parameters**

Mag	0.03X
WD	480
DOF(mm)	45
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	160*120
1/2.5"(5.7*4.28)mm	190*142
1/2"(6.4*4.8)mm	213.3*160

DTTL510-00258X6**Main parameters**

Mag	0.0258X
WD	510
DOF(mm)	48.1
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	186*139.5
1/2.5"(5.7*4.28)mm	220.9*165.9
1/2"(6.4*4.8)mm	248.1*186