

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

44mm Chip Support



DTTL Series

44mm Chip Support

Two-sided telecentric lenses

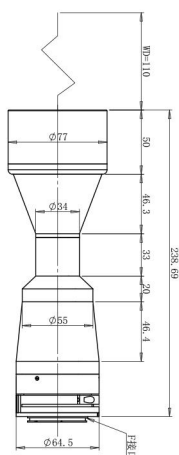


- Professional customization of multiples and depth of field
- Dual telecentric design High definition Standard F interface
- Can be equipped with a dedicated parallel light
- For high-precision detection and measurement

Lens Model	Mag	WD	DOF	Telecen	Optical	Aperture	Mtf>0.3	Mount	4k*7μm	8K*5μm	36*24mm
			mm	-tricity	distortion	F/#	(lp/mm)		(28.67mm)	(40.94mm)	(43mm)
DTTL110-08F35	0.8X	110	2.1	<0.1	<0.1	21	45	F/M58	35.8	51.2	45*30
DTTL110-1F35	1.0X	110	1.4	<0.1	<0.1	18	52	F/M58	28.67	40.94	36*24
DTTL110-15F35	1.5X	110	0.5	<0.1	<0.1	17	54	F/M58	19.1	27.3	24*16
DTTL110-15T35	1.5X	110	0.5	<0.1	<0.1	100	58	F/M58	19.1	27.3	24*16
DTTL110-20F35	2.0X	110	0.4	<0.1	<0.1	17	58	F/M58	14.3	20.5	18*12
DTTL110-20T35	2.0X	110	0.4	<0.1	<0.1	14	72	F/M58	14.3	20.5	18*12
DTTL110-3F35G	3.0X	110	0.1	<0.1	<0.1	13	70	F/M58	9.5	13.6	12*8
DTTL106-3T35G	3.0X	106	0.1	<0.1	<0.1	13	70	F/M58	9.5	13.6	12*8
DTTL105-35F35	3.5X	105	0.1	<0.1	<0.1	18	47	F/M58	8.2	11.7	10.3*6.9
DTTL110-4F35G	4.0X	110	0.1	<0.1	<0.1	18	47	F/M58	7.1	10.2	9*6
DTTL110-4T35G	4.0X	110	0.1	<0.1	<0.1	14	64	F/M58	7.1	10.2	9*6
DTTL110-45F35G	4.5X	110	0.1	<0.1	<0.1	14	64	F/M58	6.4	9.1	8*5.3
DTTL105-5F35G	5.0X	105	0.1	<0.1	<0.1	17	54	F/M58	5.7	8.2	7.2*4.8
DTTL100-6F35G	6.0X	100	0.04	<0.1	<0.1	17	56	F/M58	4.8	6.8	6*4
DTTL45-1.83X35	1.83X	45	0.4	<0.1	<0.1	16	58	F/M58	15.7	22.4	19.7*13.1
DTTL68-1.76X35	1.76X	68	0.4	<0.1	<0.1	23	38	F/M58	16.3	23.3	20.5*13.6
DTTL90-1.35X35	1.35X	90	0.9	<0.1	<0.1	20	42	F/M58	21.2	30.3	26.7*17.8
DTTL150-076X35	0.76X	150	2.2	<0.1	<0.1	15	54	F/M58	37.7	53.9	47.4*31.6
DTTL150-063X35	0.63X	150	3.3	<0.1	<0.1	16	54	F/M58	45.5	65	57.1*38.1
DTTL189-061X35	0.61X	189	3.6	<0.1	<0.1	15	54	F/M58	47	67.1	59*39.3
DTTL220-054X35	0.54X	220	1.7	<0.1	<0.1	19	42	F/M58	53.1	75.8	66.7*44.4
DTTL200-05X35	0.5X	200	5.3	<0.1	<0.1	13	66	F/M58	57.3	81.9	72*48
DTTL250-046X35	0.46X	250	6.2	<0.1	<0.1	15	56	F/M58	62.3	89	78.3*52.2
DTTL260-04X35	0.4X	260	8.3	<0.1	<0.1	12	73	F/M58	71.7	102.4	90*60

Lens Model	Mag	WD	DOF mm	Telecen -tricity	Optical distortion	Aperture F/#	Mtf>0.3 (lp/mm)	Mount	4k*7μm (28.67mm)	8K*5μm (40.94mm)	36*24mm (43mm)
DTTL250-035X35	0.35X	250	10.8	<0.1	<0.1	15	58	F/M58	81.9	117	102.9*68.6
DTTL260-032X35	0.32X	260	12.9	<0.1	<0.1	15	63	F/M58	89.6	127.9	112.5*75
DTTL315-0286X35	0.286X	315	14.3	<0.1	<0.1	14	65	F/M58	100.2	143.1	125.9*83.9
DTTL410-025X35	0.25X	410	21.1	<0.1	<0.1	14	58	F/M58	114.7	163.8	144*96
DTTL340-0218X35	0.218X	340	27.8	<0.1	<0.1	14	66	F/M58	131.5	187.8	65.1*110.1
DTTL370-02X35	0.2X	370	33.0	<0.1	<0.1	10	85	F/M58	143.4	204.7	180*120
DTTL400-0187X35	0.187X	400	37.8	<0.1	<0.1	10	90	F/M58	153.3	218.9	92.5*128.3
DTTL410-0182X35	0.182X	410	22.7	<0.1	<0.1	9	93	F/M58	157.5	224.9	97.8*131.9
DTTL460-0166X35	0.166X	460	47.9	<0.1	<0.1	9	93	F/M58	172.7	246.6	216.9*144.6
DTTL600-011×35	0.11X	600	93.8	<0.1	<0.1	14	62	F/M58	260.6	372.2	327.3*218.2

DTTL110-08F35



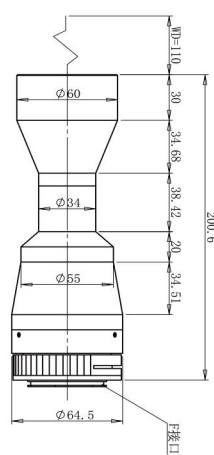
Main parameters

Mag	0.8X
WD	110
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	21
MTF>0.3(lp/mm)	45
Mount	F/M58

Field of view

4k*7um(28.67mm)	35.8
8k*5um(40.94mm)	51.2
35 36*24mm(43mm)	45*30

DTTL110-1F35



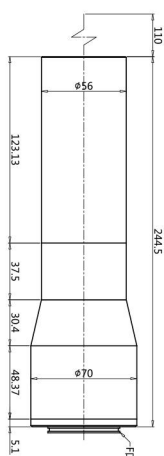
Main parameters

Mag	1.0X
WD	110
DOF(mm)	1.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	18
MTF>0.3(lp/mm)	52
Mount	F/M58

Field of view

4k*7um(28.67mm)	28.67
8k*5um(40.94mm)	40.94
35 36*24mm(43mm)	36*24

DTTL110-15F35



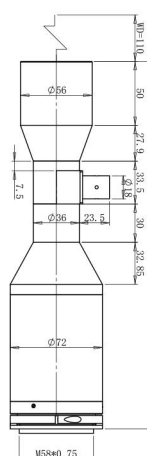
Main parameters

Mag	1.5X
WD	110
DOF(mm)	0.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	17
MTF>0.3(lp/mm)	54
Mount	F/M58

Field of view

4k*7um(28.67mm)	19.1
8k*5um(40.94mm)	27.3
35 36*24mm(43mm)	24*16

DTTL 10-15T35



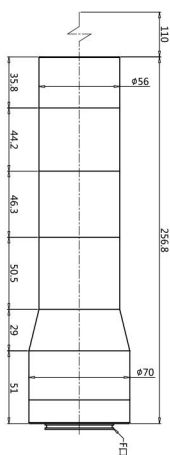
Main parameters

Mag	1.5X
WD	110
DOF(mm)	0.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	100
MTF>0.3(lp/mm)	58
Mount	F/M58

Field of view

4k*7um(28.67mm)	19.1
8k*5um(40.94mm)	27.3
35 36*24mm(43mm)	24*16

DTTL110-20F35



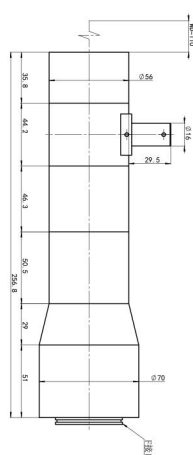
Main parameters

Mag	2.0X
WD	110
DOF(mm)	0.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	17
MTF>0.3(lp/mm)	58
Mount	F/M58

Field of view

4k*7um(28.67mm)	14.3
8k*5um(40.94mm)	20.5
35 36*24mm(43mm)	18*12

DTTL110-20T35



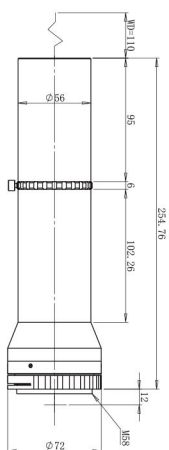
Main parameters

Mag	2.0X
WD	110
DOF(mm)	0.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	72
Mount	F/M58

Field of view

4k*7um(28.67mm)	14.3
8k*5um(40.94mm)	20.5
35 36*24mm(43mm)	18*12

DTTL110-3F35G



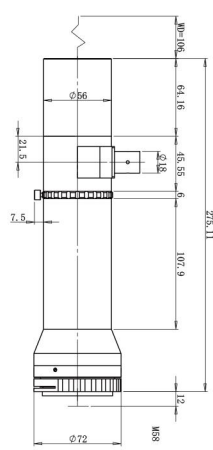
Main parameters

Mag	3.0X
WD	110
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	70
Mount	F/M58

Field of view

4k*7um(28.67mm)	9.5
8k*5um(40.94mm)	13.6
35 36*24mm(43mm)	12*8

DTTL106-3T35G



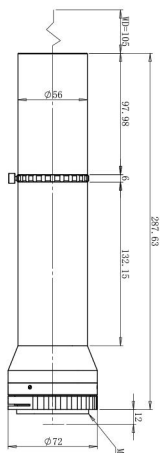
Main parameters

Mag	3.0X
WD	106
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	70
Mount	F/M58

Field of view

4k*7um(28.67mm)	9.5
8k*5um(40.94mm)	13.6
35 36*24mm(43mm)	12*8

DTTL105-35F35



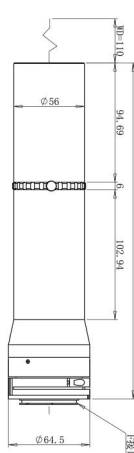
Main parameters

Mag	3.5X
WD	105
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	18
MTF>0.3(lp/mm)	47
Mount	F/M58

Field of view

4k*7um(28.67mm)	8.2
8k*5um(40.94mm)	11.7
35 36*24mm(43mm)	10.3*6.9

DTTL110-4F35G



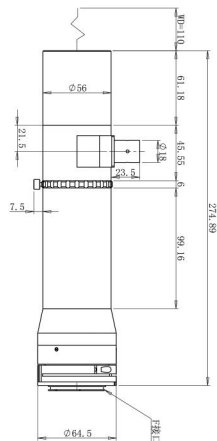
Main parameters

Mag	4.0X
WD	110
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	18
MTF>0.3(lp/mm)	47
Mount	F/M58

Field of view

4k*7um(28.67mm)	7.1
8k*5um(40.94mm)	10.2
35 36*24mm(43mm)	9*6

DTTL110-4T35G



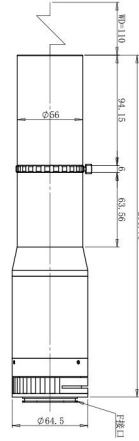
Main parameters

Mag	4.0X
WD	110
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	64
Mount	F/M58

Field of view

4k*7um(28.67mm)	7.1
8k*5um(40.94mm)	10.2
35 36*24mm(43mm)	9°6

DTTL110-45F35G



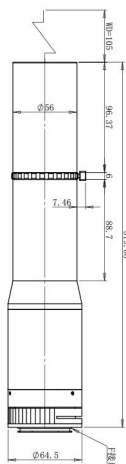
Main parameters

Mag	4.5X
WD	110
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	64
Mount	F/M58

Field of view

4k*7um(28.67mm)	6.4
8k*5um(40.94mm)	9.1
35 36*24mm(43mm)	8°5.3

DTTL105-5F35G



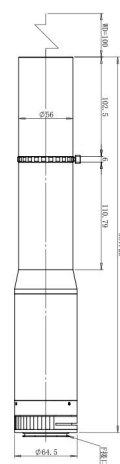
Main parameters

Mag	5.0X
WD	105
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	17
MTF>0.3(lp/mm)	54
Mount	F/M58

Field of view

4k*7um(28.67mm)	5.7
8k*5um(40.94mm)	8.2
35 36*24mm(43mm)	7.2*4.8

DTTL100-6F35G



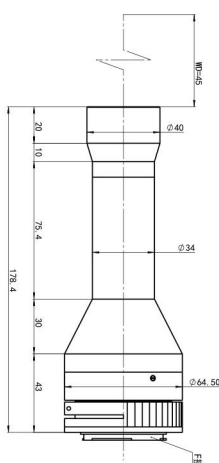
Main parameters

Mag	6.0X
WD	100
DOF(mm)	0.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	17
MTF>0.3(lp/mm)	56
Mount	F/M58

Field of view

4k*7um(28.67mm)	4.8
8k*5um(40.94mm)	6.8
35 36*24mm(43mm)	6°4

DTTL45-1.83X35



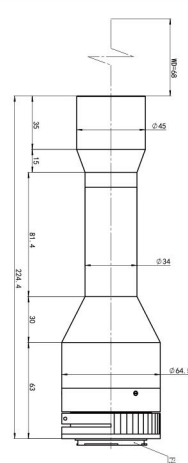
Main parameters

Mag	1.83X
WD	45
DOF(mm)	0.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	58
Mount	F/M58

Field of view

4k*7um(28.67mm)	15.7
8k*5um(40.94mm)	22.4
35 36*24mm(43mm)	19.7*13.1

DTTL68-1.76X35



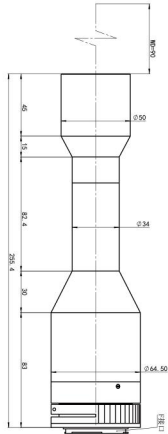
Main parameters

Mag	1.76X
WD	68
DOF(mm)	0.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	23
MTF>0.3(lp/mm)	38
Mount	F/M58

Field of view

4k*7um(28.67mm)	16.3
8k*5um(40.94mm)	23.3
35 36*24mm(43mm)	20.5*13.6

DTTL90-1.35X35



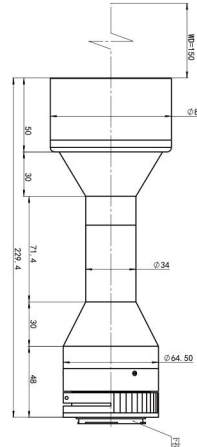
Main parameters

Mag	1.35X
WD	90
DOF(mm)	0.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	20
MTF>0.3(lp/mm)	42
Mount	F/M58

Field of view

4k*7um(28.67mm)	21.2
8k*5um(40.94mm)	30.3
35 36*24mm(43mm)	26.7*17.8

DTTL150-076X35



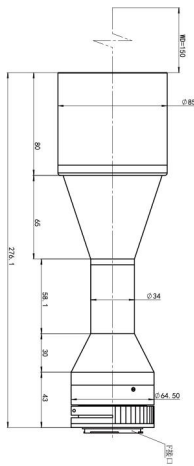
Main parameters

Mag	0.76X
WD	150
DOF(mm)	2.2
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	54
Mount	F/M58

Field of view

4k*7um(28.67mm)	37.7
8k*5um(40.94mm)	53.9
35 36*24mm(43mm)	47.4*31.6

DTTL150-063X35



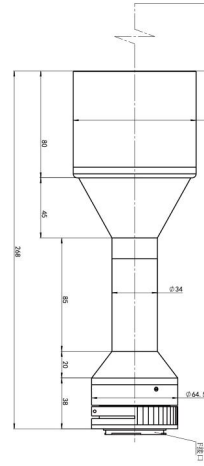
Main parameters

Mag	0.63X
WD	150
DOF(mm)	3.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	54
Mount	F/M58

Field of view

4k*7um(28.67mm)	45.5
8k*5um(40.94mm)	65
35 36*24mm(43mm)	57.1*38.1

DTTL189-061X35



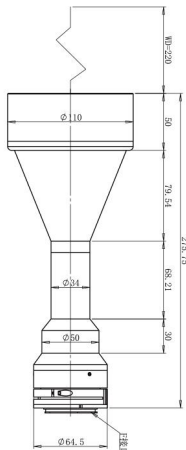
Main parameters

Mag	0.61X
WD	189
DOF(mm)	3.6
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	54
Mount	F/M58

Field of view

4k*7um(28.67mm)	47
8k*5um(40.94mm)	67.1
35 36*24mm(43mm)	59*39.3

DTTL220-054X35



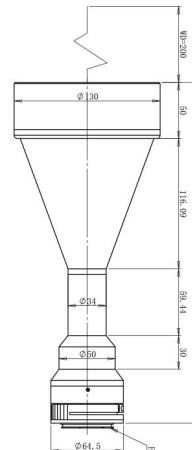
Main parameters

Mag	0.54X
WD	220
DOF(mm)	1.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	19
MTF>0.3(lp/mm)	42
Mount	F/M58

Field of view

4k*7um(28.67mm)	53.1
8k*5um(40.94mm)	75.8
35 36*24mm(43mm)	66.7*44.4

DTTL200-05X35



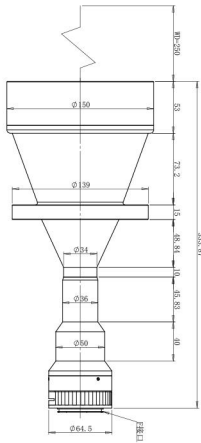
Main parameters

Mag	0.5X
WD	200
DOF(mm)	5.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	66
Mount	F/M58

Field of view

4k*7um(28.67mm)	57.3
8k*5um(40.94mm)	81.9
35 36*24mm(43mm)	72*48

DTTL250-046X35



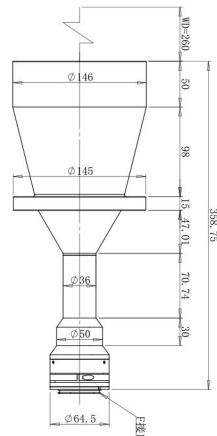
Main parameters

Mag	0.46X
WD	250
DOF(mm)	6.2
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	56
Mount	F/M58

Field of view

4k*7um(28.67mm)	62.3
8k*5um(40.94mm)	89
35 36*24mm(43mm)	78.3*52.2

DTTL260-04X35



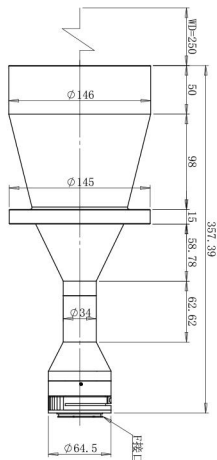
Main parameters

Mag	0.4X
WD	260
DOF(mm)	8.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	12
MTF>0.3(lp/mm)	73
Mount	F/M58

Field of view

4k*7um(28.67mm)	71.7
8k*5um(40.94mm)	102.4
35 36*24mm(43mm)	90*60

DTTL250-035X35



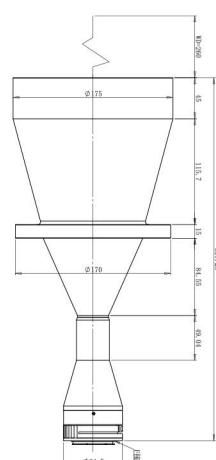
Main parameters

Mag	0.35X
WD	250
DOF(mm)	10.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	58
Mount	F/M58

Field of view

4k*7um(28.67mm)	81.9
8k*5um(40.94mm)	117
35 36*24mm(43mm)	102.9*68.6

DTTL260-032X35



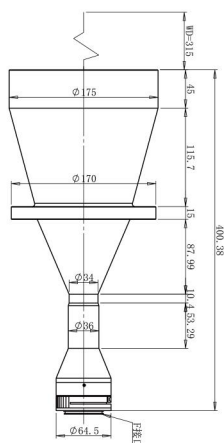
Main parameters

Mag	0.32X
WD	260
DOF(mm)	12.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	15
MTF>0.3(lp/mm)	63
Mount	F/M58

Field of view

4k*7um(28.67mm)	89.6
8k*5um(40.94mm)	127.9
35 36*24mm(43mm)	112.5*75

DTTL315-0286X35



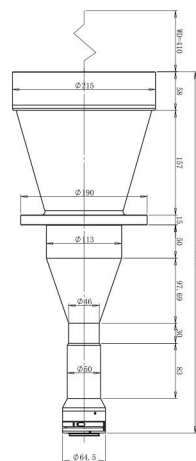
Main parameters

Mag	0.286X
WD	315
DOF(mm)	14.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	65
Mount	F/M58

Field of view

4k*7um(28.67mm)	100.2
8k*5um(40.94mm)	143.1
35 36*24mm(43mm)	125.9*83.9

DTTL410-025X35



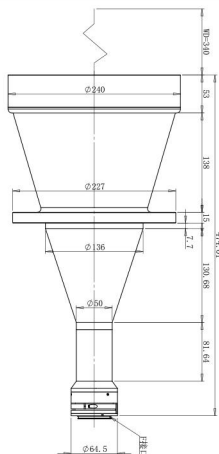
Main parameters

Mag	0.25X
WD	410
DOF(mm)	21.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	58
Mount	F/M58

Field of view

4k*7um(28.67mm)	114.7
8k*5um(40.94mm)	163.8
35 36*24mm(43mm)	144*96

DTTL340-0218X35



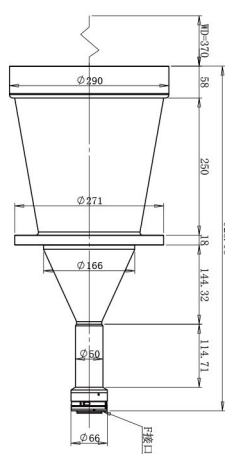
Main parameters

Mag	0.218X
WD	340
DOF(mm)	27.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	66
Mount	F/M58

Field of view

4k*7um(28.67mm)	131.5
8k*5um(40.94mm)	187.8
35 36*24mm(43mm)	165.1*110.1

DTTL370-02X35



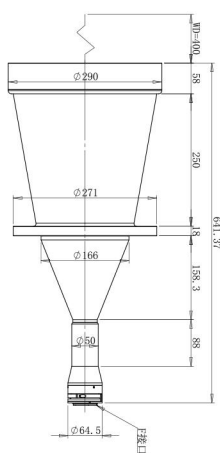
Main parameters

Mag	0.2X
WD	370
DOF(mm)	33.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	85
Mount	F/M58

Field of view

4k*7um(28.67mm)	143.4
8k*5um(40.94mm)	204.7
35 36*24mm(43mm)	180*120

DTTL400-0187X35



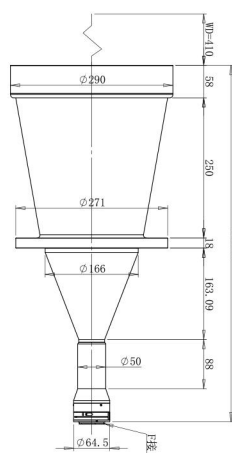
Main parameters

Mag	0.187X
WD	400
DOF(mm)	37.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	90
Mount	F/M58

Field of view

4k*7um(28.67mm)	153.3
8k*5um(40.94mm)	218.9
35 36*24mm(43mm)	192.5*128.3

DTTL410-0182X35



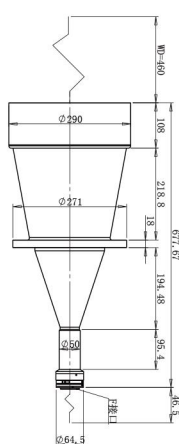
Main parameters

Mag	0.182X
WD	410
DOF(mm)	22.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	93
Mount	F/M58

Field of view

4k*7um(28.67mm)	157.5
8k*5um(40.94mm)	224.9
35 36*24mm(43mm)	197.8*131.9

DTTL460-0166X35



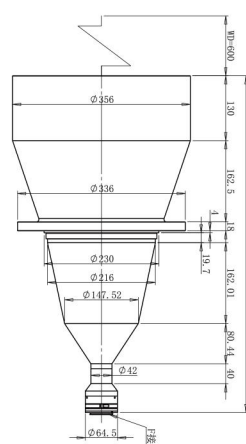
Main parameters

Mag	0.166X
WD	460
DOF(mm)	47.9
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	93
Mount	F/M58

Field of view

4k*7um(28.67mm)	172.7
8k*5um(40.94mm)	246.6
35 36*24mm(43mm)	216.9*144.6

DTTL600-011X35



Main parameters

Mag	0.11X
WD	600
DOF(mm)	93.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	14
MTF>0.3(lp/mm)	62
Mount	F/M58

Field of view

4k*7um(28.67mm)	260.6
8k*5um(40.94mm)	372.2
35 36*24mm(43mm)	327.3*218.2