

Telecentric Lens

DTTL Series Telecentric Lens

Model No:

28mm Chip Support



DTTL Series

28mm Chip Support

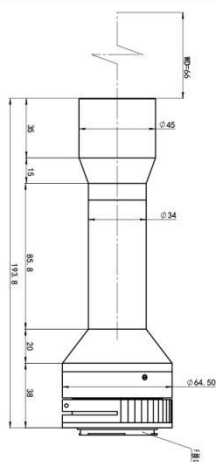
Target camera



- Professional customization of multiples and depth of field
- Dual telecentric design High definition Standard M58 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	PYTHON16K	CMV12000	LineScan-
			mm	-tricity	distortion	F/#	(lp/mm)		(18.43*18.43)mm	(22.5*16.9)mm	4k(28.8)mm
DTTL66-1.24X57	1.24X	66	0.8	<0.1	<0.1	16	60	F/M58	14.9*14.9	18.1*13.6	23.2
DTTL55-098X57	0.98X	55	1.0	<0.1	<0.1	123	88	F/M58	18.8*18.8	23*17.2	29.4
DTTL105-0875X57	0.875X	105	0.8	<0.1	<0.1	13	75	F/M58	21.1*21.1	25.7*19.3	32.9
DTTL135-078X57	0.78X	135	1.8	<0.1	<0.1	13	64	F/M58	23.6*23.6	28.8*21.7	36.9
DTTL120-07X57	0.7X	120	2.0	<0.1	<0.1	12	78	F/M58	26.3*26.3	32.1*24.1	41.1
DTTL125-065X57	0.65X	125	2.1	<0.1	<0.1	11	80	F/M58	28.4*28.4	34.6*26	44.3
DTTL130-06X57	0.6X	130	2.1	<0.1	<0.1	9	105	F/M58	30.7*30.7	37.5*28.2	48
DTTL141-057X57	0.57X	141	3.0	<0.1	<0.1	11	78	F/M58	32.3*32.3	39.5*29.6	50.5
DTTL144-05X57	0.5X	144	3.0	<0.1	<0.1	9	100	F/M58	36.9*36.9	45*33.8	57.6
DTTL200-042X57	0.42X	200	5.0	<0.1	<0.1	11	80	F/M58	43.9*43.9	53.6*40.2	68.6
DTTL220-0394X57	0.394X	220	7.5	<0.1	<0.1	12	60	F/M58	46.8*46.8	57.1*42.9	73.1
DTTL270-033X57	0.33X	270	7.4	<0.1	<0.1	7	96	F/M58	55.8*55.8	68.2*51.2	87.3
DTTL260-03X57	0.3X	260	10.1	<0.1	<0.1	8	120	F/M58	61.4*61.4	75*56.3	96
DTTL250-026X57	0.26X	250	8.4	<0.1	<0.1	10	145	F/M58	70.9*70.9	86.5*65	110.8
DTTL310-0212X57	0.212X	310	15.0	<0.1	<0.1	8	120	F/M58	86.9*86.9	106.1*79.7	135.8
DTTL310-019X57	0.19X	310	16.7	<0.1	<0.1	11	120	F/M58	97*97	118.4*88.9	151.6
DTTL390-015X57	0.15X	390	30.1	<0.1	<0.1	8	100	F/M58	122.9*122.9	150*112.7	192
DTTL400-013X57	0.13X	400	35.3	<0.1	<0.1	7	130	F/M58	141.8*141.8	173.1*130	221.5
DTTL490-01×57	0.1X	490	68.8	<0.1	<0.1	8	96	F/M58	184.3*184.3	225*169	288
DTTL600-00938X57	0.0938X	600	62.8	<0.1	<0.1	7	130	F/M58	196.5*196.5	239.9*180.2	307

DTTL66-1.24X57



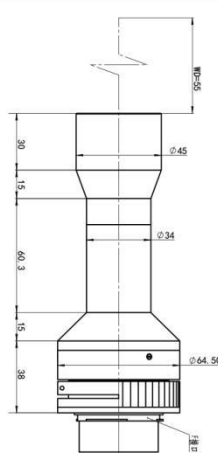
Main parameters

Mag	1.24X
WD	66
DOF(mm)	0.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	16
MTF>0.3(lp/mm)	60
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	14.9*14.9
CMV12000(22.5*16.9)mm	18.1*13.6
LineScan-4k(28.8)mm	23.2

DTTL55-098X57



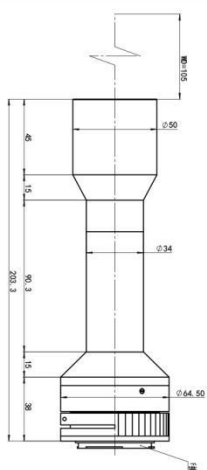
Main parameters

Mag	0.98X
WD	55
DOF(mm)	1.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	123
MTF>0.3(lp/mm)	88
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	18.8*18.8
CMV12000(22.5*16.9)mm	23*17.2
LineScan-4k(28.8)mm	29.4

DTTL105-0875X57



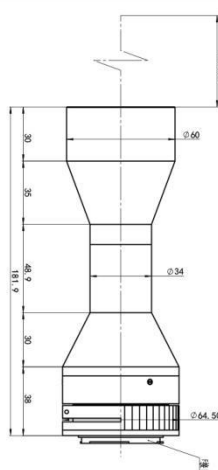
Main parameters

Mag	0.875X
WD	105
DOF(mm)	0.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	75
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	21.1*21.1
CMV12000(22.5*16.9)mm	25.7*19.3
LineScan-4k(28.8)mm	32.9

DTTL135-078X57



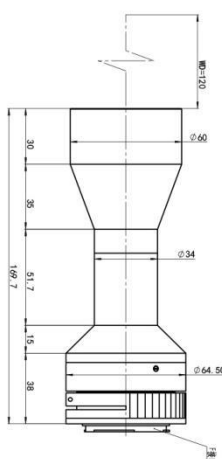
Main parameters

Mag	0.78X
WD	135
DOF(mm)	1.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	13
MTF>0.3(lp/mm)	64
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	23.6*23.6
CMV12000(22.5*16.9)mm	28.8*21.7
LineScan-4k(28.8)mm	36.9

DTTL120-07X57



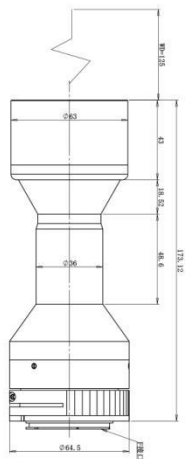
Main parameters

Mag	0.7X
WD	120
DOF(mm)	2.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	12
MTF>0.3(lp/mm)	78
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	26.3*26.3
CMV12000(22.5*16.9)mm	32.1*24.1
LineScan-4k(28.8)mm	41.1

DTTL125-065X57



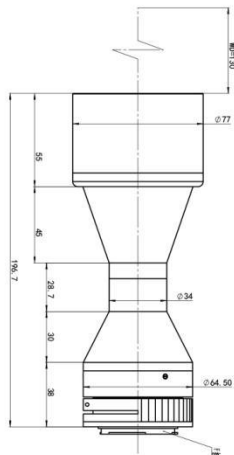
Main parameters

Mag	0.65X
WD	125
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	80
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	28.4*28.4
CMV12000(22.5*16.9)mm	34.6*26
LineScan-4k(28.8)mm	44.3

DTTL130-06X57



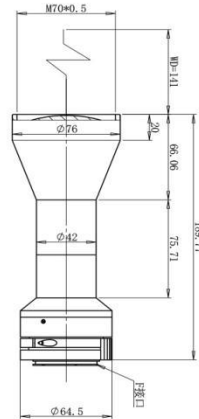
Main parameters

Mag	0.6X
WD	130
DOF(mm)	2.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	105
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	30.7°30.7
CMV12000(22.5*16.9)mm	37.5°28.2
LineScan-4k(28.8)mm	48

DTTL141-057X57



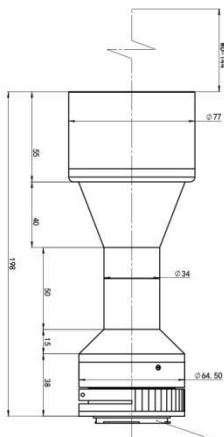
Main parameters

Mag	0.57X
WD	141
DOF(mm)	3.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	78
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	32.3°32.3
CMV12000(22.5*16.9)mm	39.5°29.6
LineScan-4k(28.8)mm	50.5

DTTL144-05X57



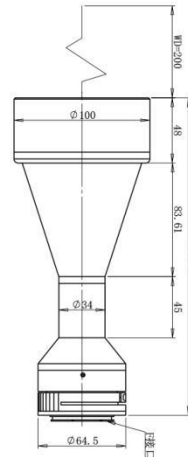
Main parameters

Mag	0.5X
WD	144
DOF(mm)	3.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	9
MTF>0.3(lp/mm)	100
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	36.9°36.9
CMV12000(22.5*16.9)mm	45°33.8
LineScan-4k(28.8)mm	57.6

DTTL200-042X57



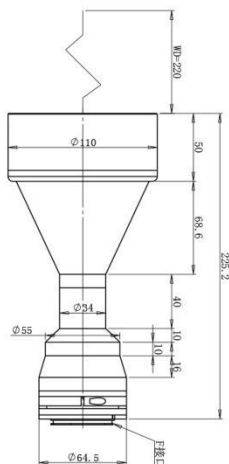
Main parameters

Mag	0.42X
WD	200
DOF(mm)	5.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	80
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	43.9°43.9
CMV12000(22.5*16.9)mm	53.6°40.2
LineScan-4k(28.8)mm	68.6

DTTL220-0394X57



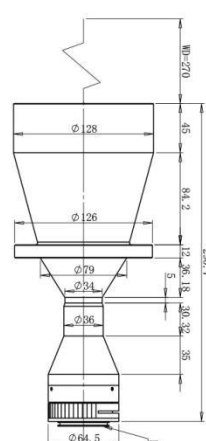
Main parameters

Mag	0.394X
WD	220
DOF(mm)	7.5
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	12
MTF>0.3(lp/mm)	60
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	46.8°46.8
CMV12000(22.5*16.9)mm	57.1°42.9
LineScan-4k(28.8)mm	73.1

DTTL270-033X57



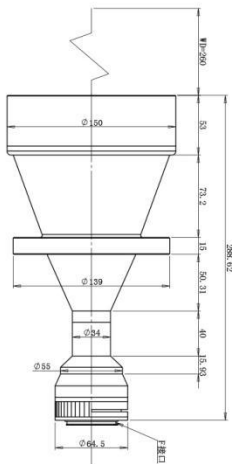
Main parameters

Mag	0.33X
WD	270
DOF(mm)	7.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	7
MTF>0.3(lp/mm)	96
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	55.8°55.8
CMV12000(22.5*16.9)mm	68.2°51.2
LineScan-4k(28.8)mm	87.3

DTTL260-03X57



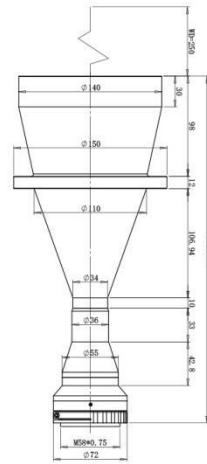
Main parameters

Mag	0.3X
WD	260
DOF(mm)	10.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	120
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	61.4°61.4
CMV12000(22.5°16.9)mm	75°56.3
LineScan-4k(28.8)mm	96

DTTL250-026X57



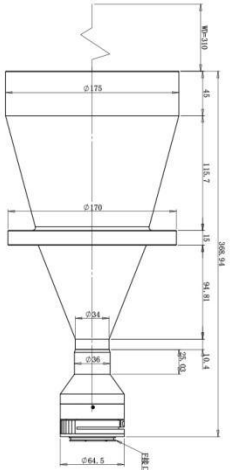
Main parameters

Mag	0.26X
WD	250
DOF(mm)	8.4
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	10
MTF>0.3(lp/mm)	145
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	70.9°70.9
CMV12000(22.5°16.9)mm	86.5°65
LineScan-4k(28.8)mm	110.8

DTTL310-0212X57



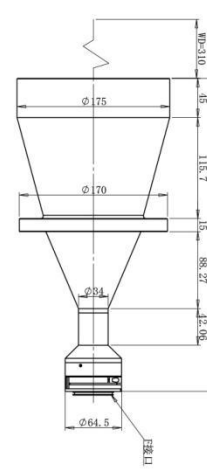
Main parameters

Mag	0.212X
WD	310
DOF(mm)	15.0
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	120
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	86.9°86.9
CMV12000(22.5°16.9)mm	106.1°79.7
LineScan-4k(28.8)mm	135.8

DTTL310-019X57



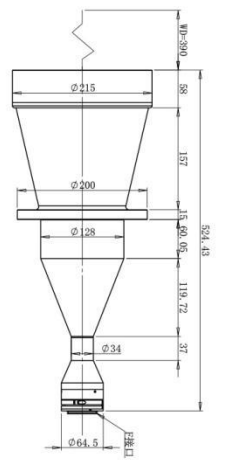
Main parameters

Mag	0.19X
WD	310
DOF(mm)	16.7
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	11
MTF>0.3(lp/mm)	120
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	97°97
CMV12000(22.5°16.9)mm	118.4°88.9
LineScan-4k(28.8)mm	151.6

DTTL390-015X57



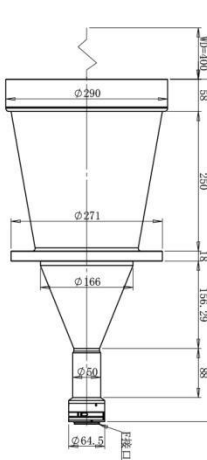
Main parameters

Mag	0.15X
WD	390
DOF(mm)	30.1
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	100
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	122.9°122.9
CMV12000(22.5°16.9)mm	150°112.7
LineScan-4k(28.8)mm	192

DTTL400-013X57



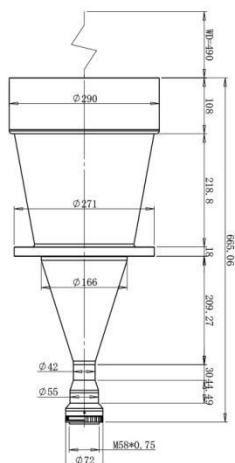
Main parameters

Mag	0.13X
WD	400
DOF(mm)	35.3
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	7
MTF>0.3(lp/mm)	130
Mount	F/M58

Field of view

PYTHON16K(18.43°18.43)mm	141.8°141.8
CMV12000(22.5°16.9)mm	173.1°130
LineScan-4k(28.8)mm	221.5

DTTL490-01X57



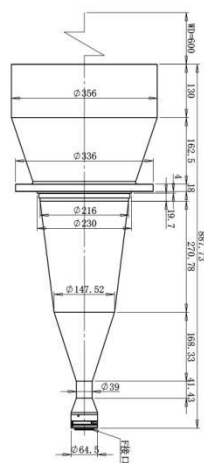
Main parameters

Mag	0.1X
WD	490
DOF(mm)	68.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	8
MTF>0.3(lp/mm)	96
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	184.3*184.3
CMV12000(22.5*16.9)mm	225*169
LineScan-4k(28.8)mm	288

DTTL600-00938X57



Main parameters

Mag	0.0938X
WD	600
DOF(mm)	62.8
Telecentricity	<0.1
Optical distortion	<0.1
Aperture(F/#)	7
MTF>0.3(lp/mm)	130
Mount	F/M58

Field of view

PYTHON16K(1843*1843)mm	196.5*196.5
CMV12000(22.5*16.9)mm	239.9*180.2
LineScan-4k(28.8)mm	307