

Telecentric Lens

DTTL-X Series WD=105mm

Model No:

Maximum support

2/3' (11mm)

DZ Series WD=105mm

Maximum support
2/3'(11mm)

Target camera



Professional customization of multiples and depth of field

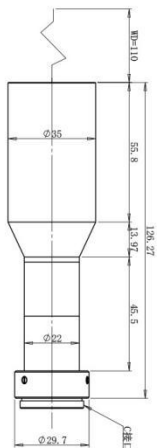
Object-side telecentric design Standard C interface

High definition
High resolution

Multiples change from 0.3-8.0X field of view from 29.3-1.1mm

Type	Lens Model	Mag	WD	DOF mm	Resolution (um)	Telecen tricity	Optical distortion	1/3"CCD (4.8*3.6)mm	1/2"CCD (6.4*4.8)mm	2/3"CCD (8.4*7.1)mm
Non-Coaxial	NV110-05F34-DZ	0.5X	110	3.2	11.2	<0.1	<0.08	9.6*7.2	12.8*9.6	16.8*14.2
	NV110-08F34-DZ	0.8X	110	1.0	6.7	<0.1	<0.08	6*4.5	8*6	10.5*8.9
	NV110-1F34-DZ	1.0X	110	0.6	4.8	<0.1	<0.08	4.8*3.6	6.4*4.8	8.4*7.1
	NV110-15F34-DZ	1.5X	110	0.4	4.5	<0.1	<0.08	3.2*2.4	4.3*3.2	5.6*4.7
	NV105-2F34-DZ	2.0X	105	0.3	3.7	<0.1	<0.08	2.4*1.8	3.2*2.4	4.2*3.6
	NV105-25F34-DZ	2.5X	105	0.2	3.4	<0.1	<0.08	2*1.5	2.6*2	3.4*2.8
	NV105-3F34-DZ	3.0X	105	0.1	3.2	<0.1	<0.08	1.6*1.2	2.1*1.6	2.8*2.4
	NV105-4F34-DZ	4.0X	105	0.1	3.1	<0.1	<0.08	1.2*0.9	1.6*1.2	2.1*1.8
	NV105-5F34-DZ	5.0X	105	0.1	3.1	<0.1	<0.08	1*0.7	1.3*1	1.7*1.4
	NV105-6F34-DZ	6.0X	105	0.1	2.9	<0.1	<0.08	0.8*0.6	1.1*0.8	1.4*1.2
	NV105-8F34-DZ	8.0X	105	0.04	2.9	<0.1	<0.08	0.6*0.5	0.8*0.6	1.1*0.9
	NV105-100F34-DZ	10.0X	105	0.02	2.8	<0.1	<0.08	0.5*0.4	0.6*0.5	0.8*0.7
Coaxial	NV110-05T34-DZ	0.5X	110	3.2	11.2	<0.1	<0.08	9.6*7.2	12.8*9.6	16.8*14.2
	NV110-08T34-DZ	0.8X	110	1.0	6.7	<0.1	<0.08	6*4.5	8*6	10.5*8.9
	NV110-1T34-DZ	1.0X	110	0.6	4.8	<0.1	<0.08	4.8*3.6	6.4*4.8	8.4*7.1
	NV110-15T34-DZ	1.5X	110	0.4	4.5	<0.1	<0.08	3.2*2.4	4.3*3.2	5.6*4.7
	NV105-2T34-DZ	2.0X	105	0.3	3.7	<0.1	<0.08	2.4*1.8	3.2*2.4	4.2*3.6
	NV105-25T34-DZ	2.5X	105	0.2	3.4	<0.1	<0.08	2*1.5	2.6*2	3.4*2.8
	NV105-3T34-DZ	3.0X	105	0.1	3.2	<0.1	<0.08	1.6*1.2	2.1*1.6	2.8*2.4
	NV105-4T34-DZ	4.0X	105	0.1	3.1	<0.1	<0.08	1.2*0.9	1.6*1.2	2.1*1.8
	NV105-5T34-DZ	5.0X	105	0.1	3.1	<0.1	<0.08	1*0.7	1.3*1	1.7*1.4
	NV105-6T34-DZ	6.0X	105	0.1	2.9	<0.1	<0.08	0.8*0.6	1.1*0.8	1.4*1.2
	NV105-8T34-DZ	8.0X	105	0.04	2.9	<0.1	<0.08	0.6*0.5	0.8*0.6	1.1*0.9
	NV105-100T34-DZ	10.0X	105	0.02	2.8	<0.1	<0.08	0.5*0.4	0.6*0.5	0.8*0.7

DH110-05F34-DZ



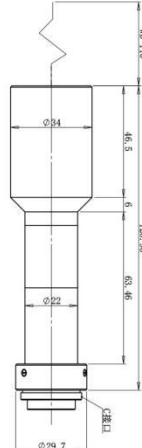
Main parameters

Mag	0.5X
WD	110
DOF(mm)	3.2
Resolution(um)	11.2
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	9.6*7.2
1/2"CCD(6.4*4.8)mm	12.8*9.6
2/3"CCD(8.4*7.1)mm	16.8*14.2

DH110-08F34-DZ



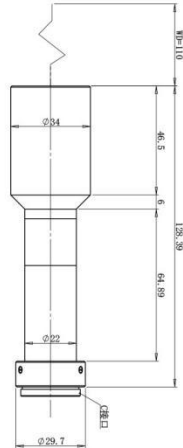
Main parameters

Mag	0.8X
WD	110
DOF(mm)	1.0
Resolution(um)	6.7
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	6*4.5
1/2"CCD(6.4*4.8)mm	8*6
2/3"CCD(8.4*7.1)mm	10.5*8.9

DH110-1F34-DZ



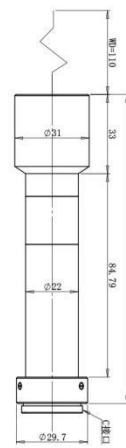
Main parameters

Mag	1.0X
WD	110
DOF(mm)	0.6
Resolution(um)	4.8
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	4.8*3.6
1/2"CCD(6.4*4.8)mm	6.4*4.8
2/3"CCD(8.4*7.1)mm	8.4*7.1

DH110-15F34-DZ



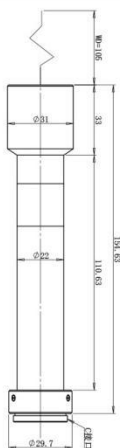
Main parameters

Mag	1.5X
WD	110
DOF(mm)	0.4
Resolution(um)	4.5
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	3.2*2.4
1/2"CCD(6.4*4.8)mm	4.3*3.2
2/3"CCD(8.4*7.1)mm	5.6*4.7

DH105-2F34-DZ



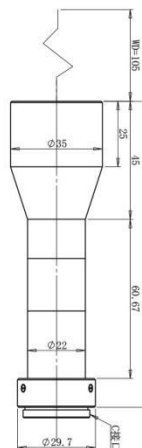
Main parameters

Mag	2.0X
WD	105
DOF(mm)	0.3
Resolution(um)	3.7
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	2.4*1.8
1/2"CCD(6.4*4.8)mm	3.2*2.4
2/3"CCD(8.4*7.1)mm	4.2*3.6

DH105-25F34-DZ



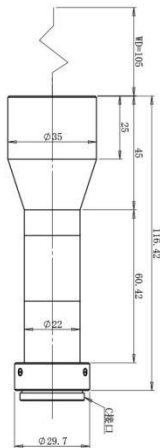
Main parameters

Mag	2.5X
WD	105
DOF(mm)	0.2
Resolution(um)	3.4
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	2*1.5
1/2"CCD(6.4*4.8)mm	2.6*2
2/3"CCD(8.4*7.1)mm	3.4*2.8

DH105-3F34-DZ



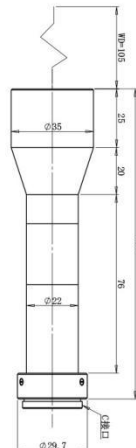
Main parameters

Mag	3.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.2
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1.6*1.2
1/2"CCD(6.4*4.8)mm	2.1*1.6
2/3"CCD(8.4*7.1)mm	2.8*2.4

DH105-4F34-DZ



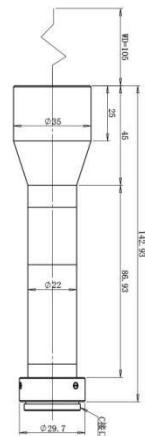
Main parameters

Mag	4.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.1
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1.2*0.9
1/2"CCD(6.4*4.8)mm	1.6*1.2
2/3"CCD(8.4*7.1)mm	2.1*1.8

DH105-5F34-DZ



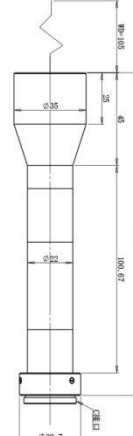
Main parameters

Mag	5.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.1
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1*0.7
1/2"CCD(6.4*4.8)mm	1.3*1
2/3"CCD(8.4*7.1)mm	1.7*1.4

DH105-6F34-DZ



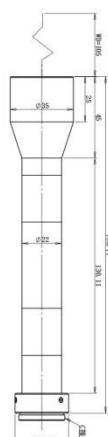
Main parameters

Mag	6.0X
WD	105
DOF(mm)	0.1
Resolution(um)	2.9
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.8*0.6
1/2"CCD(6.4*4.8)mm	1.1*0.8
2/3"CCD(8.4*7.1)mm	1.4*1.2

DH105-8F34-DZ



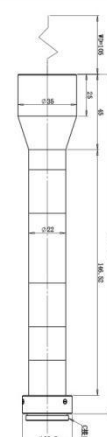
Main parameters

Mag	8.0X
WD	105
DOF(mm)	0.04
Resolution(um)	2.9
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.6*0.5
1/2"CCD(6.4*4.8)mm	0.8*0.6
2/3"CCD(8.4*7.1)mm	1.1*0.9

DH105-100F34-DZ



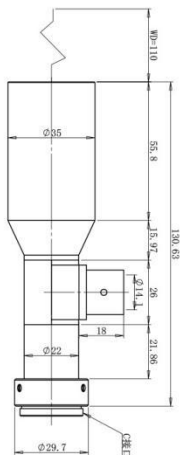
Main parameters

Mag	10.0X
WD	105
DOF(mm)	0.02
Resolution(um)	2.8
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.5*0.4
1/2"CCD(6.4*4.8)mm	0.6*0.5
2/3"CCD(8.4*7.1)mm	0.8*0.7

DH110-05T34-DZ



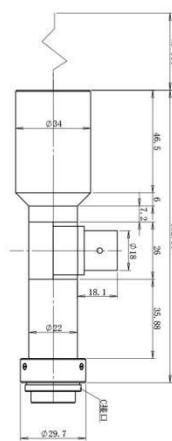
Main parameters

Mag	0.5X
WD	110
DOF(mm)	3.2
Resolution(um)	11.2
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	9.6*7.2
1/2"CCD(6.4*4.8)mm	12.8*9.6
2/3"CCD(8.4*7.1)mm	16.8*14.2

DH110-08T34-DZ



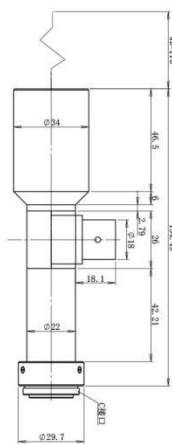
Main parameters

Mag	0.8X
WD	110
DOF(mm)	1.0
Resolution(um)	6.7
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	6*4.5
1/2"CCD(6.4*4.8)mm	8*6
2/3"CCD(8.4*7.1)mm	10.5*8.9

DH110-1T34-DZ



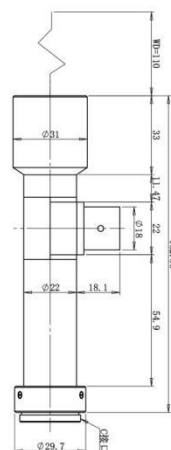
Main parameters

Mag	1.0X
WD	110
DOF(mm)	0.6
Resolution(um)	4.8
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	4.8*3.6
1/2"CCD(6.4*4.8)mm	6.4*4.8
2/3"CCD(8.4*7.1)mm	8.4*7.1

DH110-15T34-DZ



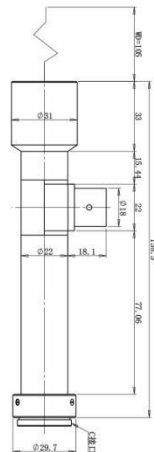
Main parameters

Mag	1.5X
WD	110
DOF(mm)	0.4
Resolution(um)	4.5
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	3.2*2.4
1/2"CCD(6.4*4.8)mm	4.3*3.2
2/3"CCD(8.4*7.1)mm	5.6*4.7

DH105-2T34-DZ



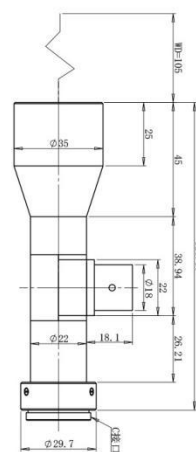
Main parameters

Mag	2.0X
WD	105
DOF(mm)	0.3
Resolution(um)	3.7
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	2.4*1.8
1/2"CCD(6.4*4.8)mm	3.2*2.4
2/3"CCD(8.4*7.1)mm	4.2*3.6

DH105-25T34-DZ



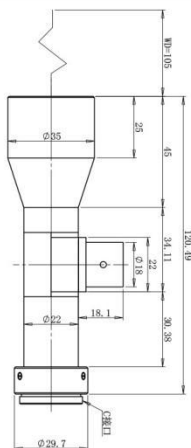
Main parameters

Mag	2.5X
WD	105
DOF(mm)	0.2
Resolution(um)	3.4
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	2*1.5
1/2"CCD(6.4*4.8)mm	2.6*2
2/3"CCD(8.4*7.1)mm	3.4*2.8

DH105-3T34-DZ



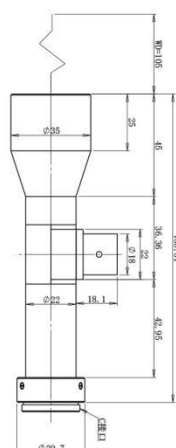
Main parameters

Mag	3.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.2
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1.6*1.2
1/2"CCD(6.4*4.8)mm	2.1*1.6
2/3"CCD(8.4*7.1)mm	2.8*2.4

DH105-4T34-DZ



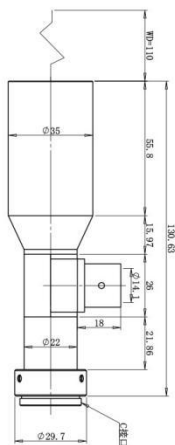
Main parameters

Mag	4.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.1
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1.2*0.9
1/2"CCD(6.4*4.8)mm	1.6*1.2
2/3"CCD(8.4*7.1)mm	2.1*1.8

DH105-5T34-DZ



Main parameters

Mag	5.0X
WD	105
DOF(mm)	0.1
Resolution(um)	3.1
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	1*0.7
1/2"CCD(6.4*4.8)mm	1.3*1
2/3"CCD(8.4*7.1)mm	1.7*1.4

DH105-6T34-DZ



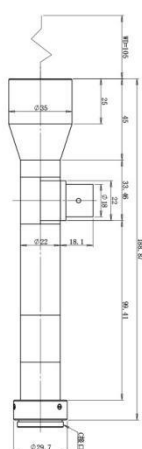
Main parameters

Mag	6.0X
WD	105
DOF(mm)	0.1
Resolution(um)	2.9
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.8*0.6
1/2"CCD(6.4*4.8)mm	1.1*0.8
2/3"CCD(8.4*7.1)mm	1.4*1.2

DH105-8T34-DZ



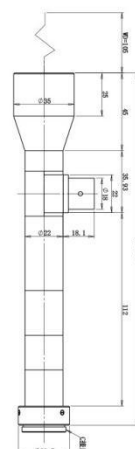
Main parameters

Mag	8.0X
WD	105
DOF(mm)	0.04
Resolution(um)	2.9
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.6*0.5
1/2"CCD(6.4*4.8)mm	0.8*0.6
2/3"CCD(8.4*7.1)mm	1.1*0.9

DH105-100T34-DZ



Main parameters

Mag	10.0X
WD	105
DOF(mm)	0.02
Resolution(um)	2.8
Telecentricity	<0.1
Optical distortion	<0.08

Field of view

1/3"CCD(4.8*3.6)mm	0.5*0.4
1/2"CCD(6.4*4.8)mm	0.6*0.5
2/3"CCD(8.4*7.1)mm	0.8*0.7