

WWK Series

Suitable for AOI

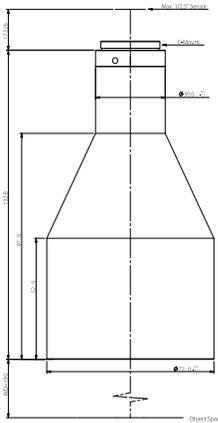
1.1" 12MP Cameras



Lens Model	Mag. (x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount	Coaxial Light
WWK014-190-125	0.14	190±2	7.2(1/2.5")	8	>100	±32.5@F16	<0.2	<0.1	132.8	C	NO
WWK022-200-118	0.22	200±3	9.0(1/1.8")	8	>95	±13@F16	<0.1	<0.1	150.0	C	NO
WWK022-220-111	0.22	220±3	18.0(1.1")	8	>110	±13@F16	<0.1	<0.15	232.9	C	NO
WWK023-220-111	0.23	220±3	18.0(1.1")	8	>110	±12@F16	<0.1	<0.18	233.0	C	NO
WWK0246-220-111	0.246	220±3	18.0(1.1")	8	>100	±10@F16	<0.1	<0.13	232.9	C	NO
WWK0275-220-111	0.275	220±3	18.0(1.1")	8	>105	±8@F16	<0.1	<0.15	242.9	C	NO
WWK03-180-118	0.3	180±2	9.0(1/1.8")	8	>100	±7@F16	<0.1	<0.1	166.2	C	NO
WWK03-180-230	0.3	180±2	11.0(2/3")	10	>83	±7@F16	<0.1	<0.1	166.3	C	NO
WWK03-180C-230	0.3	180±2	11.0(2/3")	10	>83	±7@F16	<0.1	<0.1	166.2	C	YES
WWK0345-220-110	0.345	220±3	16.0(1")	8	>115	±5.3@F16	<0.1	<0.1	214.9	C	NO
WWK0367-220-110	0.367	220±3	16.0(1")	8	>115	±4.7@F16	<0.1	<0.1	214.9	C	NO
WWK05-220-110	0.5	220±3	16.0(1")	8	>110	±2.5@F16	<0.1	<0.1	205.7	C	NO
WWK05-220C-110	0.5	220±3	16.0(1")	8	>110	±2.5@F16	<0.1	<0.1	205.7	C	YES
WWK055-220-111	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C	NO
WWK055-220C-111	0.55	220±3	18.0(1.1")	10.1	>90	±1.3@F10.1	<0.1	<0.1	215.6	C	YES
WWK08-110-111	0.8	110±2	18.0(1.1")	7.9	>85	±1.0@F16	<0.1	<0.1	122.8	C	NO
WWK08-110C-111	0.8	110±2	18.0(1.1")	7.9	>85	±1.0@F16	<0.1	<0.1	122.8	C	YES
WWK10-110-111	1.0	110±2	18.0(1.1")	7	>105	±0.6@F16	<0.13	<0.18	133.3	C	NO
WWK10-110C-111	1.0	110±2	18.0(1.1")	7	>105	±0.6@F16	<0.13	<0.18	133.3	C	YES

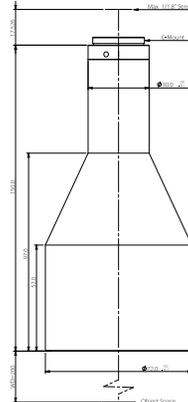
Lens Model	Mag. (x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	Length (mm)	Mount	Coaxial Light
WWK15-110-111	1.5	110±2	18.0(1.1")	10	>78	±0.35@F20	<0.1	<0.1	128.8	C	NO
WWK15-110C-111	1.5	110±2	18.0(1.1")	10	>78	±0.35@F20	<0.1	<0.1	128.8	C	YES
WWK20-110-111	2.0	110±2	18.0(1.1")	13.5	>60	±0.2@F20	<0.1	<0.1	133.2	C	NO
WWK20-110C-111	2.0	110±2	18.0(1.1")	13.5	>60	±0.2@F20	<0.1	<0.1	133.2	C	YES
WWK30-110-111	3.0	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	161.8	C	NO
WWK30-110C-111	3.0	110±2	18.0(1.1")	20.1	>40	±0.09@F20.1	<0.1	<0.1	166.1	C	YES

WWK014-190-125



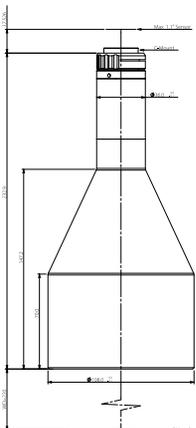
Mag.(x)	0.14
WD(mm)	190±2
Max Sensor Size(Φmm)	7.2(1/2.5")
F/#	8
MTF30 (lp/mm)	>100
DOF(mm)	±32.5@F16
Distortion(% max)	<0.2
Telecentricity(° max)	<0.1
Length(mm)	132.8
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1/2.5" 9P001/31 (5.7x4.28)	40.7x30.6

WWK022-200-118



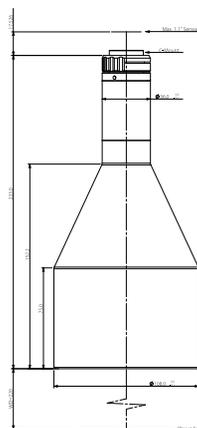
Mag.(x)	0.22
WD(mm)	200±3
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	8
MTF30 (lp/mm)	>95
DOF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	150.0
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1/1.8" ICX274/687 (7.16x5.44)	32.6x24.7
1/1.8" EV76CS70 (7.2x5.4)	32.7x24.6

WWK022-220-111



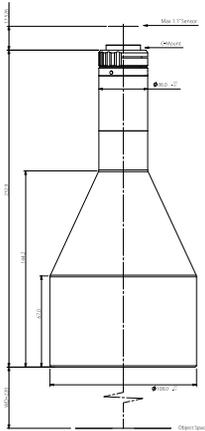
Mag.(x)	0.22
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±13@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	232.9
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	64.5x47.2

WWK023-220-111



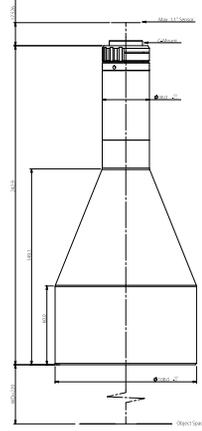
Mag.(x)	0.23
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±12@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.18
Length(mm)	233.0
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	61.7x45.1

WWK0246-220-111



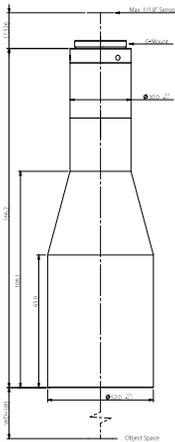
Mag.(x)	0.246
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>100
DOF(mm)	±10@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.13
Length(mm)	232.9
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1.1" IMX253 (14.19x10.38)	57.7x42.2

WWK0275-220-111



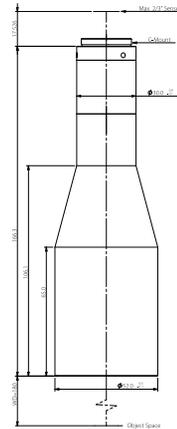
Mag.(x)	0.275
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	8
MTF30 (lp/mm)	>105
DOF(mm)	±8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.15
Length(mm)	242.9
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1.1" IMX253 (14.19x10.38)	51.6x37.8

WWK03-180-118



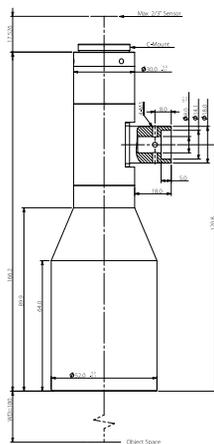
Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	9.0(1/1.8")
F/#	8
MTF30 (lp/mm)	>100
DOF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.2
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1/1.8" ICX274/687 (7.16x5.44)	23.9x18.1
1/1.8" EV76C570 (7.2x5.4)	24.0x18.0

WWK03-180-230



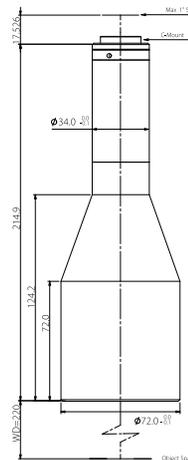
Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30 (lp/mm)	>83
DOF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.3
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
2/3" ICX625/655 (8.47x7.1)	28.2x23.7

WWK03-180C-230



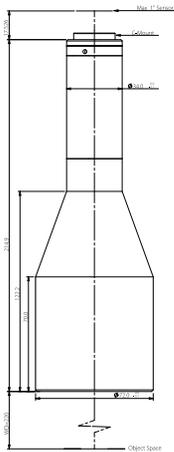
Mag.(x)	0.3
WD(mm)	180±2
Max Sensor Size(Φmm)	11.0(2/3")
F/#	10
MTF30 (lp/mm)	>83
DOF(mm)	±7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.2
Mount	C-Mount
Coaxial Light	YES
Field of View(mm x mm)	
2/3" ICX625/655 (8.47x7.1)	28.2x23.7

WWK0345-220-110



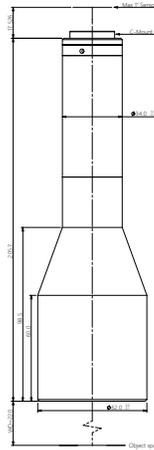
Mag.(x)	0.345
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>115
DOF(mm)	±5.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	214.9
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1" KAI-04050 (12.85x9.64)	37.3x27.9
1" CMV4000 (11.26x11.26)	32.6x32.6
1" ICX674/694/814 (12.5x10.0)	36.2x29.0

WWK0367-220-110



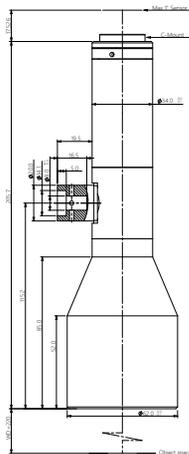
Mag.(x)	0.367
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>115
DOF(mm)	±4.7@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	214.9
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1" KAI-04050 (12.85x9.64)	35.0x26.3
1" CMV4000 (11.26x11.26)	30.7x30.7
1" ICX674/694/814 (12.5x10.0)	34.1x27.3

WWK05-220-110



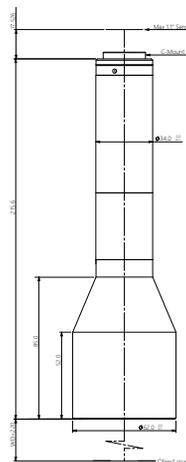
Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±2.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1" KAI-04050 (12.85x9.64)	25.7x19.3
1" CMV4000 (11.26x11.26)	22.5x22.5
1" ICX674/694/814 (12.5x10.0)	25.0x20.0

WWK05-220C-110



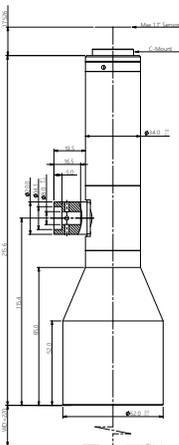
Mag.(x)	0.5
WD(mm)	220±3
Max Sensor Size(Φmm)	16.0(1")
F/#	8
MTF30 (lp/mm)	>110
DOF(mm)	±2.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	205.7
Mount	C-Mount
Coaxial Light	YES
Field of View(mm x mm)	
1" KAI-04050 (12.85x9.64)	25.7x19.3
1" CMV4000 (11.26x11.26)	22.5x22.5
1" ICX674/694/814 (12.5x10.0)	25.0x20.0

WWK055-220-111



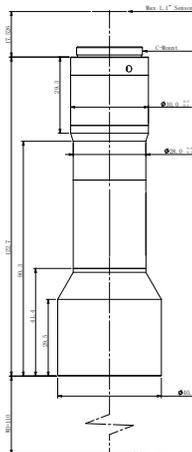
Mag.(x)	0.55
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10.1
MTF30 (lp/mm)	>90
DOF(mm)	±1.3@F10.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	215.6
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1.1" IMX253 (14.19x10.38)	25.8x18.9

WWK055-220C-111



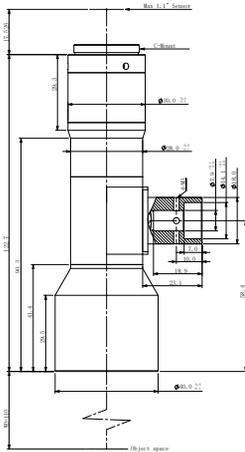
Mag.(x)	0.55
WD(mm)	220±3
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10.1
MTF30 (lp/mm)	>90
DOF(mm)	±1.3@F10.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	215.6
Mount	C-Mount
Coaxial Light	YES
Field of View(mm x mm)	
1.1" IMX253 (14.19x10.38)	25.8x18.9

WWK08-110-111



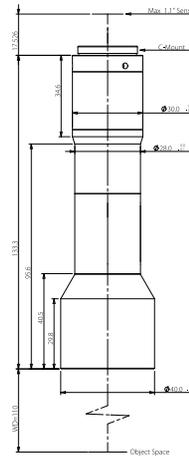
Mag.(x)	0.8
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7.9
MTF30 (lp/mm)	>85
DOF(mm)	±1.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	122.7
Mount	C-Mount
Coaxial Light	NO
Field of View(mm x mm)	
1.1" IMX253 (14.19x10.38)	17.7x13.0

WWK08-110C-111



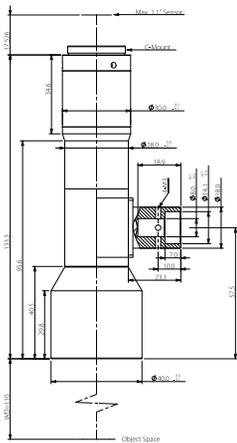
Mag.(x)	0.8
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7.9
MTF30 (lp/mm)	>85
DOF(mm)	±1.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	122.7
Mount	C-Mount
Coaxial Light	YES
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	17.7x13.0

WWK10-110-111



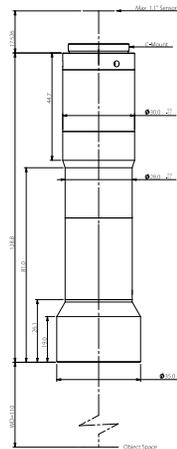
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30 (lp/mm)	>105
DOF(mm)	±0.6@F16
Distortion(% max)	<0.13
Telecentricity(° max)	<0.18
Length(mm)	133.3
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	14.2x10.4

WWK10-110C-111



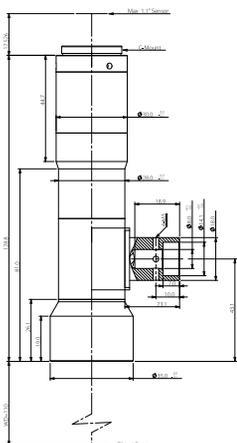
Mag.(x)	1.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	7
MTF30 (lp/mm)	>105
DOF(mm)	±0.6@F16
Distortion(% max)	<0.13
Telecentricity(° max)	<0.18
Length(mm)	133.3
Mount	C-Mount
Coaxial Light	YES
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	14.2x10.4

WWK15-110-111



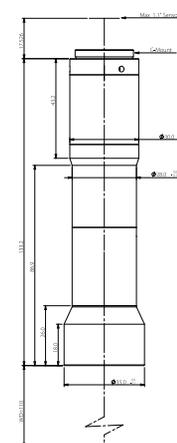
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30 (lp/mm)	>78
DOF(mm)	±0.35@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	128.8
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	9.5x6.9

WWK15-110C-111



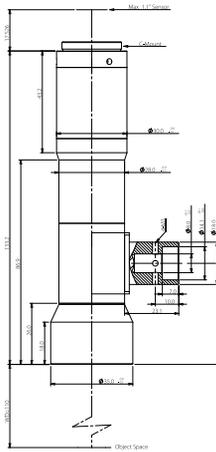
Mag.(x)	1.5
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	10
MTF30 (lp/mm)	>78
DOF(mm)	±0.35@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	128.8
Mount	C-Mount
Coaxial Light	YES
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	9.5x6.9

WWK20-110-111



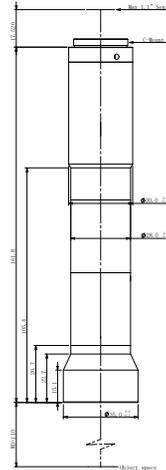
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	13.5
MTF30 (lp/mm)	>60
DOF(mm)	±0.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	133.2
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	7.1x5.2

WWK20-110C-111



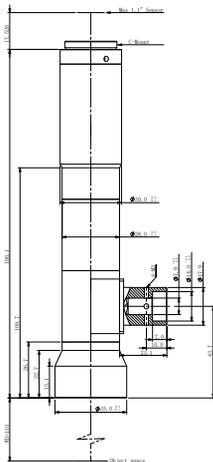
Mag.(x)	2.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	13.5
MTF30 (lp/mm)	>60
DOF(mm)	±0.2@F20
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	133.2
Mount	C-Mount
Coaxial Light	YES
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	7.1x5.2

WWK30-110-111



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	20.1
MTF30 (lp/mm)	>40
DOF(mm)	±0.09@F20.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	161.8
Mount	C-Mount
Coaxial Light	NO
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	4.7x3.5

WWK30-110C-111



Mag.(x)	3.0
WD(mm)	110±2
Max Sensor Size(Φmm)	18.0(1.1")
F/#	20.1
MTF30 (lp/mm)	>40
DOF(mm)	±0.09@F20.1
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
Length(mm)	166.1
Mount	C-Mount
Coaxial Light	YES
Field of View(mmxmm)	
1.1" IMX253 (14.19x10.38)	4.7x3.5