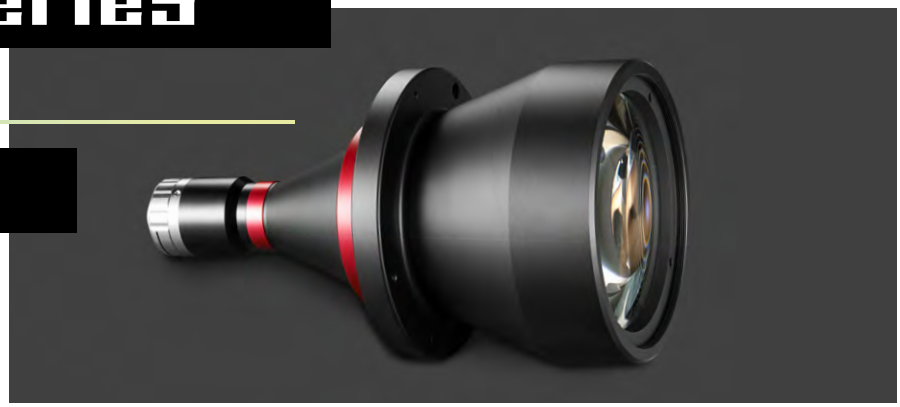
TC110 Series

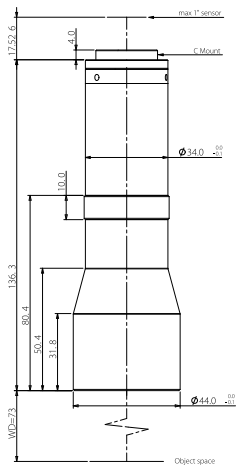
Surport 1"

Cameras



Lens Model	FOV (Φmm)	Mag. β(x)	WD (mm)	Sensor Size (Φmm)	F/#	MTF30 (lp/mm)	DOF (mm)	Distortion (% max)	Telecentricity (° max)	I/O (mm)	Length (mm)	Mount	Weight (kg)
TC110-26	26	0.638	73±1	16.6(1")	8.7	>90	±1.6@F16	<0.1	<0.1	227±1	136.3	C	0.4
TC110-36	36	0.460	110±2	16.6(1")	7.8	>100	±3.0@F16	<0.1	<0.1	284±2	156.4	C	0.5
TC110-42	42	0.395	118±3	16.6(1")	6.5	>130	±4.1@F16	<0.1	<0.1	278±3	141.9	C	0.5
TC110-48	48	0.346	128±3	16.6(1")	6.5	>130	±5.3@F16	<0.1	<0.1	301±3	155.4	C	0.5
TC110-56AL	56	0.296	138±3	16.6(1")	6.5	>130	±7.3@F16	<0.1	<0.1	334±3	178.0	C	0.7
TC110-64HAL	64	0.259	158±3	16.6(1")	6.5	>130	±9.5@F16	<0.1	<0.1	366±3	190.5	C	0.9
TC110-72AL	72	0.231	178±3	16.6(1")	6.5	>135	±12.0@F16	<0.1	<0.1	406±3	210.5	C	1.1
TC110-80HAL	80	0.208	228±4	16.6(1")	6.5	>135	±14.8@F16	<0.1	<0.1	446±4	200.5	C	1.9
TC110-90AL	90	0.184	208±3	16.6(1")	6.5	>135	±18.9@F16	<0.1	<0.1	461±3	235.5	C	1.7
TC110-100AL	100	0.166	258±4	16.6(1")	6.5	>140	±23.2@F16	<0.1	<0.1	534±4	258.8	C	3.1
TC110-110AL	110	0.151	263±4	16.6(1")	6.5	>140	±28.1@F16	<0.1	<0.1	569±4	288.1	C	2.7
TC110-120AL	120	0.138	280±5	16.6(1")	6.5	>140	±33.6@F16	<0.1	<0.1	597±5	299.2	C	4.2
DC110-136AL	136	0.122	288±5	16.6(1")	6.5	>140	±43.0@F16	<0.1	<0.1	679±5	373.0	C	-
TC110-150AL	150	0.110	300±5	16.6(1")	6.5	>120	±52.9@F16	<0.1	<0.1	660±5	342.4	C	5.7
TC110-170AL	170	0.098	318±5	16.6(1")	6.5	>140	±66.6@F16	<0.1	<0.1	740±5	404.3	C	6.5
TC110-190AL	190	0.087	330±5	16.6(1")	6.5	>135	±84.6@F16	<0.1	<0.1	779±5	431.7	C	11.1
TC110-216AL	216	0.077	372±5	16.6(1")	6.5	>140	±107.9@F16	<0.1	<0.1	917±5	527.1	C	13.8
TC110-240HAL	240	0.069	410±6	16.6(1")	6.5	>140	±134.4@F16	<0.1	<0.1	1001±6	573.0	C	19.3
TC110-268AL	268	0.062	438±6	16.6(1")	6.5	>140	±166.5@F16	<0.1	<0.1	1116±6	660.5	C	-
TC110-300AL	300	0.055	465±6	16.6(1")	6.5	>135	±211.6@F16	<0.1	<0.1	1134±6	651.5	C	46.6

TC110-26

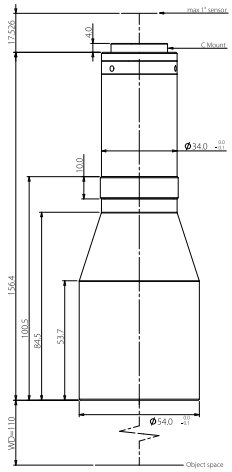


FOV(Φmm)	26
Mag.(x)	0.638
WD(mm)	73±1
Max Sensor Size(Φmm)	16.6(1")
F/#	8.7
MTF30(lp/mm)	>90
DOF(mm)	±1.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	227±1
Length(mm)	136.3
Mount	C-Mount
Weight(kg)	0.4

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	20.1x15.1
1" CMV4000	11.26x11.26	17.6x17.6
1" ICX674/694/814	12.50x10.0	19.6x15.7

TC110-36

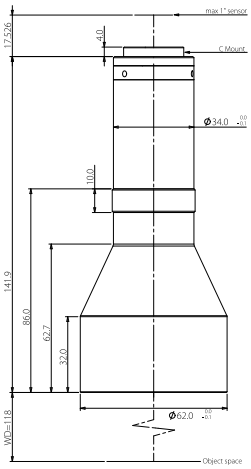


FOV(Φmm)	36
Mag.(x)	0.460
WD(mm)	110±2
Max Sensor Size(Φmm)	16.6(1")
F/#	7.8
MTF30(lp/mm)	>100
DOF(mm)	±3.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	284±2
Length(mm)	156.4
Mount	C-Mount
Weight(kg)	0.5

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	27.9x21.0
1" CMV4000	11.26x11.26	24.5x24.5
1" ICX674/694/814	12.50x10.0	27.2x21.7

TC110-42

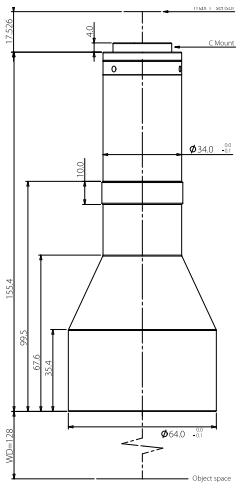


FOV(Φmm)	42
Mag.(x)	0.395
WD(mm)	118±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±4.1@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	278±3
Length(mm)	141.9
Mount	C-Mount
Weight(kg)	0.5

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	32.5x24.4
1" CMV4000	11.26x11.26	28.5x28.5
1" ICX674/694/814	12.50x10.0	31.6x25.3

TC110-48

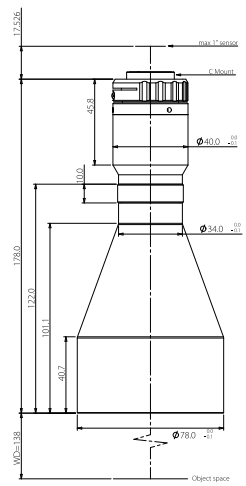


FOV(Φmm)	48
Mag.(x)	0.346
WD(mm)	128±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±5.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	301±3
Length(mm)	155.4
Mount	C-Mount
Weight(kg)	0.5

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	37.1x27.9
1" CMV4000	11.26x11.26	32.5x32.5
1" ICX674/694/814	12.50x10.0	36.1x28.9

TC110-56AL

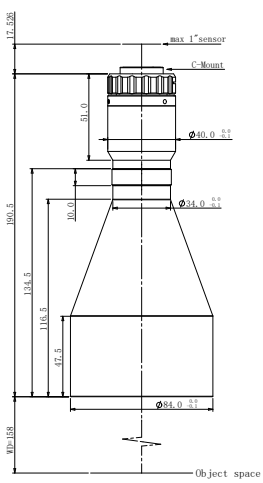


FOV(Φmm)	56
Mag.(x)	0.296
WD(mm)	138±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±7.3@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	334±3
Length(mm)	178.0
Mount	C-Mount
Weight(kg)	0.7

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	43.4x32.6
1" CMV4000	11.26x11.26	38.0x38.0
1" ICX674/694/814	12.50x10.0	42.2x33.8

TC110-64HAL

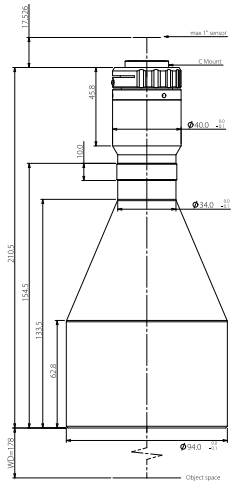


FOV(Φmm)	64
Mag.(x)	0.259
WD(mm)	158±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>130
DOF(mm)	±9.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	366±3
Length(mm)	190.5
Mount	C-Mount
Weight(kg)	0.9

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	49.6x37.2
1" CMV4000	11.26x11.26	43.5x43.5
1" ICX674/694/814	12.50x10.0	48.3x38.6

TC110-72AL

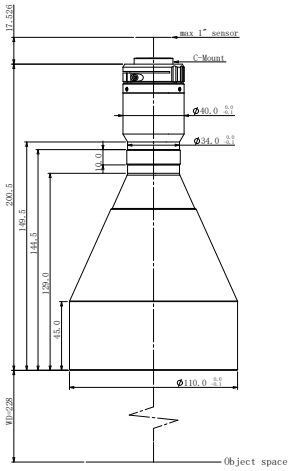


FOV(Φmm)	72
Mag.(x)	0.231
WD(mm)	178±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±12.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	406±3
Length(mm)	210.5
Mount	C-Mount
Weight(kg)	1.1

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	55.6x41.7
1" CMV4000	11.26x11.26	48.7x48.7
1" ICX674/694/814	12.50x10.0	54.1x43.3

TC110-80HAL

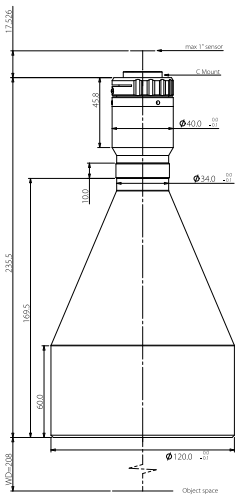


FOV(Φmm)	80
Mag.(x)	0.208
WD(mm)	228±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±14.8@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	446±4
Length(mm)	200.5
Mount	C-Mount
Weight(kg)	1.9

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	61.8x46.3
1" CMV4000	11.26x11.26	54.1x54.1
1" ICX674/694/814	12.50x10.0	60.1x48.1

TC110-90AL

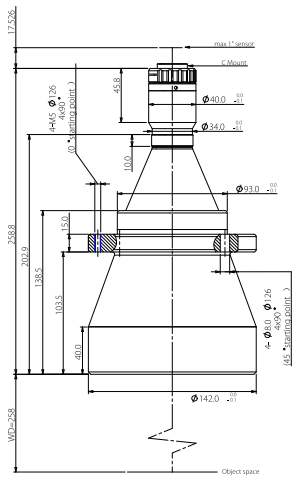


FOV(Φmm)	90
Mag.(x)	0.184
WD(mm)	208±3
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±18.9@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	461±3
Length(mm)	235.5
Mount	C-Mount
Weight(kg)	1.7

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	69.8x52.4
1" CMV4000	11.26x11.26	61.2x61.2
1" ICX674/694/814	12.50x10.0	67.9x54.3

TC110-100AL

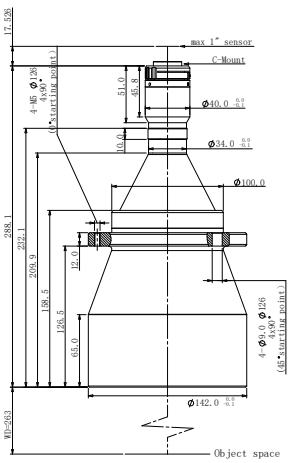


FOV(Φmm)	100
Mag.(x)	0.166
WD(mm)	258±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±23.2@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	534±4
Length(mm)	258.8
Mount	C-Mount
Weight(kg)	3.1

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	77.4x58.1
1" CMV4000	11.26x11.26	67.8x67.8
1" ICX674/694/814	12.50x10.0	75.3x60.2

TC110-110AL

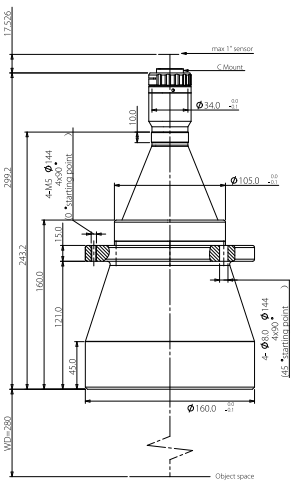


FOV(Φmm)	110
Mag.(x)	0.151
WD(mm)	263±4
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±28.1@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	569±4
Length(mm)	288.1
Mount	C-Mount
Weight(kg)	2.7

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	85.1x63.8
1" CMV4000	11.26x11.26	74.6x74.6
1" ICX674/694/814	12.50x10.0	82.8x66.2

TCM110-120AL

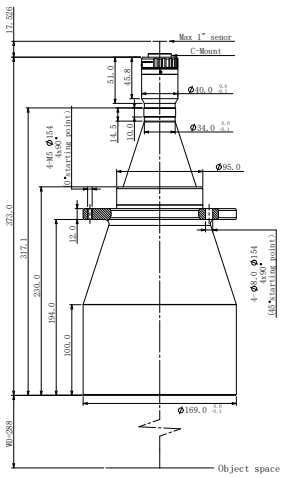


FOV(Φmm)	120
Mag.(x)	0.138
WD(mm)	280±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±33.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	597±5
Length(mm)	299.2
Mount	C-Mount
Weight(kg)	4.2

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	93.1x69.9
1" CMV4000	11.26x11.26	81.6x81.6
1" ICX674/694/814	12.50x10.0	90.6x72.5

TC110-136AL

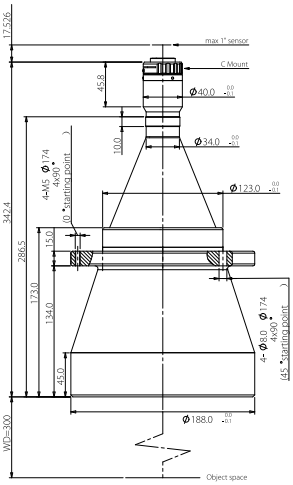


FOV(Φmm)	136
Mag.(x)	0.122
WD(mm)	288±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±43.0@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	679±5
Length(mm)	373.0
Mount	C-Mount
Weight(kg)	-

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	105.3x79.0
1" CMV4000	11.26x11.26	92.3x92.3
1" ICX674/694/814	12.50x10.0	102.5x82.0

TC110-150AL

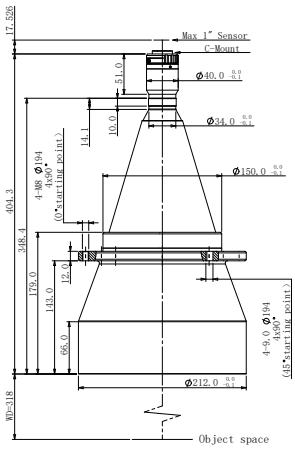


FOV(Φmm)	150
Mag.(x)	0.110
WD(mm)	300±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>120
DOF(mm)	±52.9@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	660±5
Length(mm)	342.4
Mount	C-Mount
Weight(kg)	5.7

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	116.8x87.6
1" CMV4000	11.26x11.26	102.4x102.4
1" ICX674/694/814	12.50x10.0	113.6x90.9

TC110-170AL

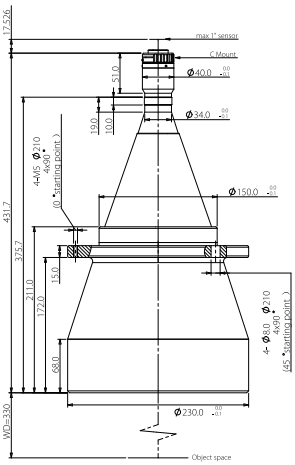


FOV(Φmm)	170
Mag.(x)	0.098
WD(mm)	318±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±66.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	740±5
Length(mm)	404.3
Mount	C-Mount
Weight(kg)	6.5

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	131.1x98.4
1" CMV4000	11.26x11.26	114.9x114.9
1" ICX674/694/814	12.50x10.0	127.6x102.0

TC110-190AL

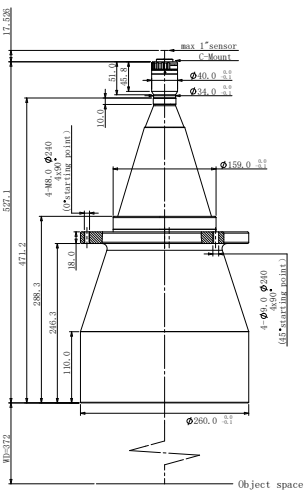


FOV(Φmm)	190
Mag.(x)	0.087
WD(mm)	330±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±84.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	779±5
Length(mm)	431.7
Mount	C-Mount
Weight(kg)	11.1

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	147.7x110.8
1" CMV4000	11.26x11.26	129.4x129.4
1" ICX674/694/814	12.50x10.0	143.7x114.9

TC110-216AL

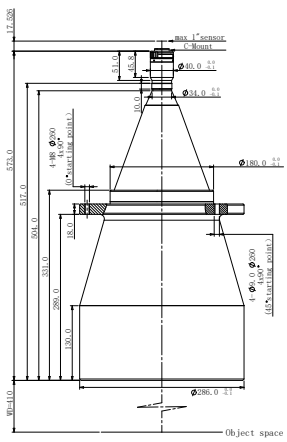


FOV(Φmm)	216
Mag.(x)	0.077
WD(mm)	372±5
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±107.9@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	917±5
Length(mm)	527.1
Mount	C-Mount
Weight(kg)	13.8

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	166.9x125.2
1" CMV4000	11.26x11.26	146.2x146.2
1" ICX674/694/814	12.50x10.0	162.3x129.9

TC110-240HAL

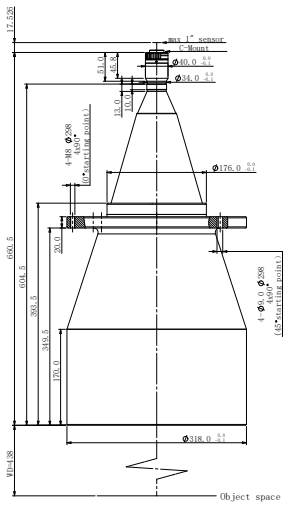


FOV(Φmm)	240
Mag.(x)	0.069
WD(mm)	410±6
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±134.4@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1001±6
Length(mm)	573.0
Mount	C-Mount
Weight(kg)	19.3

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	186.2x139.7
1" CMV4000	11.26x11.26	163.2x163.2
1" ICX674/694/814	12.50x10.0	181.2x144.9

TC110-268AL

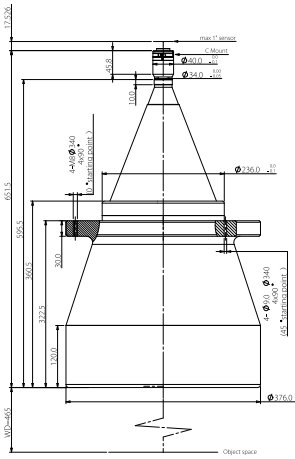


FOV(Φmm)	268
Mag.(x)	0.062
WD(mm)	438±6
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>140
DOF(mm)	±166.5@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1116±6
Length(mm)	660.5
Mount	C-Mount
Weight(kg)	-

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	207.3x155.5
1" CMV4000	11.26x11.26	181.6x181.6
1" ICX674/694/814	12.50x10.0	201.6x161.3

TC110-300AL



FOV(Φmm)	300
Mag.(x)	0.055
WD(mm)	465±6
Max Sensor Size(Φmm)	16.6(1")
F/#	6.5
MTF30(lp/mm)	>135
DOF(mm)	±211.6@F16
Distortion(% max)	<0.1
Telecentricity(° max)	<0.1
I/O(mm)	1134±6
Length(mm)	651.5
Mount	C-Mount
Weight(kg)	46.6

Field of View (mmxmm)

1" KAI-04050	12.85x9.64	233.6x175.3
1" CMV4000	11.26x11.26	204.7x204.7
1" ICX674/694/814	12.50x10.0	227.3x181.8