

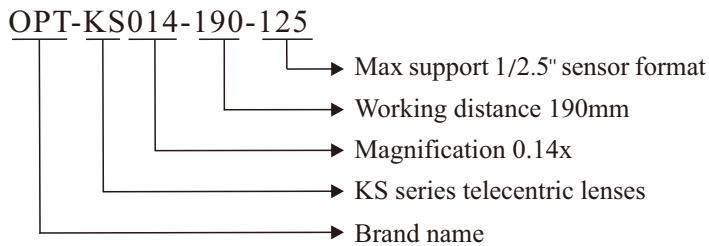
KS Series Large FOV Telecentric Lenses



Product Features

- 1 Low magnification, large field of view
- 2 High resolution, low distortion, max compatible to 1.1" sensor format camera
- 3 Long working distance, good for installation of lighting source
- 4 Object side telecentric design

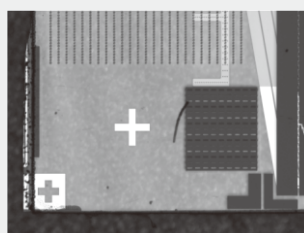
Selection Guide



Application Examples



MARK point localization



LCD MARK point localization



Resolution Detection Board Imaging Result

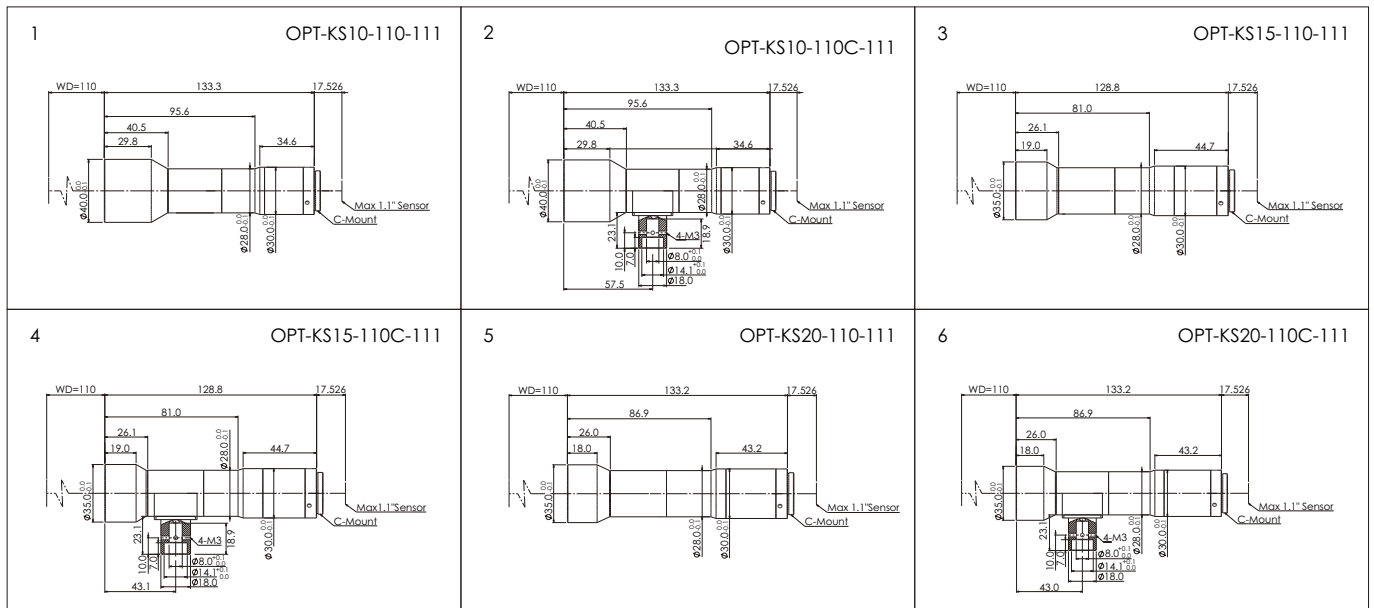
Model Table

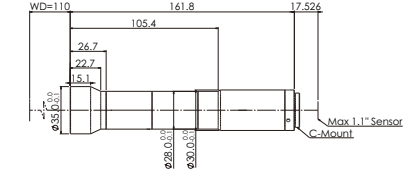
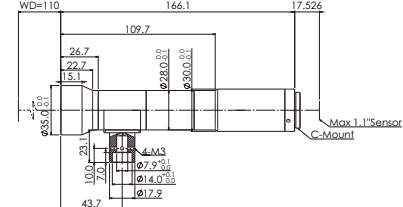
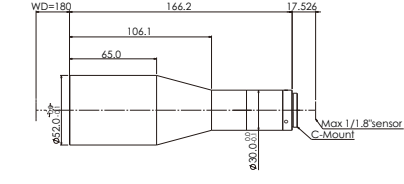
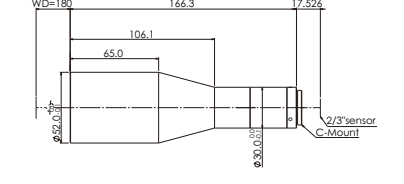
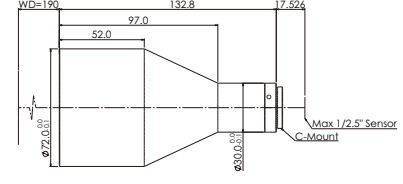
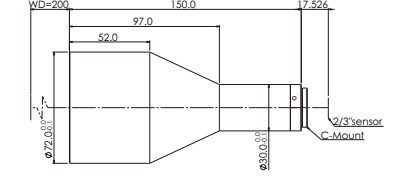
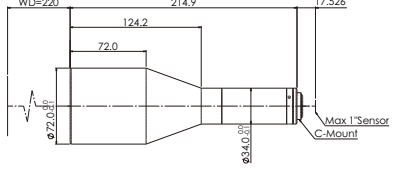
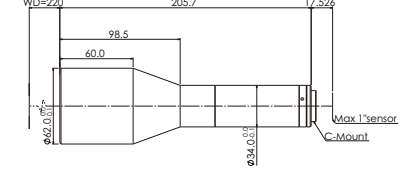
No.	Model	WD (mm) [1]	Mag. (x)	Image circle (ømm)	Aperture (F/#) [2]	Distortion (% Max)	DOF (mm) [3]	Mount	FOV (mm×mm)				
									1/2.5"	1/1.8"	2/3"	1"	1.1"
1	OPT-KS10-110-111	110±2	1.0	18	7	0.13	0.58	C	5.7×4.2	7.2×5.4	8.4×7.1	12.4×9.8	14.2×10.4
2	OPT-KS10-110C-111	110±2	1.0	18	7	0.13	0.58	C	5.7×4.2	7.2×5.4	8.4×7.1	12.4×9.8	14.2×10.4
3	OPT-KS15-110-111	110±2	1.5	18	10	0.1	0.37	C	3.8×2.8	4.8×3.6	5.6×4.7	8.3×6.5	9.5×6.9
4	OPT-KS15-110C-111	110±2	1.5	18	10	0.1	0.37	C	3.8×2.8	4.8×3.6	5.6×4.7	8.3×6.5	9.5×6.9
5	OPT-KS20-110-111	110±2	2.0	18	13.5	0.1	0.28	C	2.9×2.1	3.6×2.7	4.2×3.6	6.2×4.9	7.1×5.2
6	OPT-KS20-110C-111	110±2	2.0	18	13.5	0.1	0.28	C	2.9×2.1	3.6×2.7	4.2×3.6	6.2×4.9	7.1×5.2
7	OPT-KS30-110-111	110±2	3.0	18	20.1	0.1	0.18	C	1.9×1.4	2.4×1.8	2.8×2.4	4.1×3.3	4.7×3.5
8	OPT-KS30-110C-111	110±2	3.0	18	20.1	0.1	0.18	C	1.9×1.4	2.4×1.8	2.8×2.4	4.1×3.3	4.7×3.5
9	OPT-KS03-180-118	180±2	0.3	9	8	0.1	7.33	C	19×14	24×18	-	-	-
10	OPT-KS03-180-230	180±2	0.3	11	10	0.1	9.17	C	19×14	24×18	28×23.7	-	-
11	OPT-KS014-190-125	190±2	0.14	7.2	8	0.2	33.67	C	40.7×30	-	-	-	-
12	OPT-KS022-200-230	200±3	0.22	11	10	0.1	17.05	C	25.9×19.1	32.7×24.6	38.2×32.3	-	-
13	OPT-KS0345-220-110	220±3	0.345	16	8	0.1	5.55	C	16.5×12.2	20.9×15.7	24.4×20.6	35.9×28.4	-
14	OPT-KS05-220-110	220±3	0.5	16	8	0.1	2.64	C	11.4×8.4	14.4×10.8	16.8×14.2	24.8×19.6	-
15	OPT-KS022-220-111	220±3	0.22	18	8	0.1	13.64	C	25.9×19.1	32.7×24.6	38.2×32.3	56.4×44.6	64.6×47.3

Remarks:

1. Working distance, the distance between the front end of the mechanics and the object.
2. The real F# of a lens when using. Lenses with smaller apertures can be workable.
3. At the borders of the DOF the image still can be used for measurement. But only half of the nominal DOF can get sharp images.

Dimensional Drawings [mm]



<p>7 OPT-KS30-110-111</p> 	<p>8 OPT-KS30-110C-111</p> 	<p>9 OPT-KS03-180-118</p> 
<p>10 OPT-KS03-180-230</p> 	<p>11 OPT-KS014-190-125</p> 	<p>12 OPT-KS022-200-230</p> 
<p>13 OPT-KS0345-220-110</p> 	<p>14 OPT-KS05-220-110</p> 	<p>15 OPT-KS022-220-111</p> 