

## ES telecentric lens-ESCM-F SERIES



- Optimized for 4/3"~35mm F-Mount cameras
- Perfectly suitable for 4K and 8K line scan cameras
- FOV ranges from 26mm to 240mm
- Very high resolution, low distortion and homogeneous image quality
- Yield constant magnification over defined depth of field;
- Customized mounts available

### Specifications

Spec	WD(mm)	Mag(x)	Max Field of View(mm)	DOF (mm)	Telecentricity (°)	Optical Distortion (%)	Aperture (f/#)	MTF30 (lp/mm)	I/O(mm)	Length (mm)	Website
<b>Max Detetor size: 24mm (4/3"); Mount:F or C-Mount</b>											
ESCM430-26	70±1	0.923	26	±0.9@F20	≤0.1	≤0.1	12.5	≥65	261±1	144	<a href="http://www.esstartek.com">http://www.esstartek.com</a>
ESCM430-36	110±2	0.67	36	±1.7@F20	≤0.1	≤0.1	11.3	≥70	322±2	164	
ESCM430-48	128±3	0.5	48	±3.2@F20	≤0.1	≤0.1	9.4	≥85	338±3	148	
ESCM430-64	189±3	0.375	64	±5.6@F20	≤0.1	≤0.1	11.3	≥70	408±3	174	
ESCM430-80	228±4	0.3	80	±8.8@F20	≤0.1	≤0.1	12.5	≥60	482±4	207.9	
ESCM430-100	258±4	0.24	100	±13.8@F20	≤0.1	≤0.1	9.4	≥85	570±4	266.4	
ESCM430-120	280±5	0.2	120	±16.0@F20	≤0.1	≤0.1	8	≥100	633±5	306.7	
ESCM430-150	300±5	0.16	150	±25@F20	≤0.1	≤0.1	8	≥100	697±5	350	
ESCM430-190	330±5	0.126	190	±50.3@F20	≤0.1	≤0.1	8	≥100	818±5	439.3	
ESCM430-240	410±6	0.1	240	±80@F20	≤0.1	≤0.1	8	≥100	1048±6	590.3	

Spec	WD(mm)	Mag(x)	Diameter (mm)	DOF (mm)	Telecentricity (°)	Optical Distortion (%)	Aperture (f/#)	MTF30 (lp/mm)	I/O(mm)	Length (mm)	
<b>Max Detetor size: 44mm (35mm Full); Mount:C or F-Mount</b>											
ESCM35F-48	128±3	0.92	48	±0.9@F20	≤0.1	≤0.1	17	≥45	389±3	199.6	
ESCM35F-100	258±4	0.44	100	±4.1@F20	≤0.1	≤0.1	17	≥45	622±4	317.9	
ESCM35F-120	280±5	0.367	120	±5.9@F20	≤0.1	≤0.1	15	≥50	685±5	358.3	
ESCM35F-150	300±5	0.293	150	±9.3@F20	≤0.1	≤0.1	13	≥60	749±5	401.5	
ESCM35F-190	330±5	0.23	190	±15.1@F20	≤0.1	≤0.1	10.3	≥75	869±5	490.8	
ESCM35F-240	410±6	0.183	240	±23.8@F20	≤0.1	≤0.1	10.3	≥75	1099±6	641.9	

Spec	WD(mm)	Mag(x)	Diameter (mm)	DOF (mm)	Telecentricity (°)	Optical Distortion (%)	Aperture (f/#)	MTF30 (lp/mm)	I/O(mm)	Length (mm)	Link
<b>Max Detetor size: 33mm (2"); Mount:F-Mount/Other</b>											
ESCM210-36	110±2	0.917	36	±0.9@F20	≤0.1	≤0.1	15.5	≥50	348±2	188.5	
ESCM210-48	128±3	0.668	48	±1.8@F20	≤0.1	≤0.1	13	≥60	364±3	187.5	
ESCM210-64	189±3	0.516	64	±3.0@F20	≤0.1	≤0.1	15.5	≥50	434±3	198.5	
ESCM210-80	228±4	0.41	80	±4.7@F20	≤0.1	≤0.1	17.2	≥45	509±4	232.4	
ESCM210-100	258±4	0.33	100	±7.3@F20	≤0.1	≤0.1	13	≥60	597±4	290.8	
ESCM210-120	280±5	0.275	120	±10.5@F20	≤0.1	≤0.1	11	≥70	660±5	331.2	
ESCM210-150	300±5	0.22	150	±16.5@F20	≤0.1	≤0.1	9.7	≥80	723±5	374.4	
ESCM210-190	330±5	0.174	190	±21.3@F20	≤0.1	≤0.1	7.8	≥100	844±5	463.7	
ESCM210-240	410±6	0.138	240	±33.6@F20	≤0.1	≤0.1	7.8	≥100	1074±6	614.8	

Spec	WD(mm)	Mag(x)	Diameter (mm)	DOF (mm)	Telecentricity (°)	Optical Distortion (%)	Aperture (f/#)	MTF30 (lp/mm)	I/O(mm)	Length (mm)	Link
<b>Max Detetor size: 29mm (1.75"); Mount:F-Mount/Other</b>											
ESCM175-26	70±1	1.115	26	±0.6@F20	≤0.1	≤0.1	15	≥50	272±1	154.7	
ESCM175-36	110±2	0.806	36	±1.2@F20	≤0.1	≤0.1	13.5	≥60	332±2	174.8	
ESCM175-48	128±3	0.604	48	±2.2@F20	≤0.1	≤0.1	11.3	≥70	354±3	173.8	
ESCM175-64	189±3	0.453	64	±3.8@F20	≤0.1	≤0.1	13.6	≥55	418±3	184.8	
ESCM175-80	228±4	0.363	80	±6.0@F20	≤0.1	≤0.1	15.2	≥50	493±4	218.7	
ESCM175-100	258±4	0.29	100	±9.5@F20	≤0.1	≤0.1	11.3	≥70	581±4	277.1	
ESCM175-120	280±5	0.242	120	±13.6@F20	≤0.1	≤0.1	9.7	≥80	644±5	317.5	
ESCM175-150	300±5	0.193	150	±21.5@F20	≤0.1	≤0.1	8.5	≥90	707±5	360.7	
ESCM175-190	330±5	0.153	190	±27.3@F20	≤0.1	≤0.1	85	≥90	828±5	450	
ESCM175-240	410±6	0.121	240	±43.7@F20	≤0.1	≤0.1	8.5	≥90	1058±6	601.1	