

Lens specifications

Optics

Image sensor	1/2.7" Effective image area > 6.8mm
Focal distance	3.4±5% ~ 10±5%mm
Aperture	f/1.7~f/3.0
Focus range	<ul style="list-style-type: none">• WIDE: 1.0m - infinity• TELE: 1.0m - infinity
Field of view (D=6.6mm)	<ul style="list-style-type: none">• WIDE: 129.2°• TELE: 37.6°
Relative contrast	<ul style="list-style-type: none">• WIDE: >-14%• TELE: >-1.7%
Distortion	<ul style="list-style-type: none">• WIDE: -9.2%• TELE: 3.2%

Mechanics

Mechanical back focus	-0.35 (in glass t=0.4 BK7)
Lens zoom structure	The stepper motor is directly connected to the screw
Lens focusing structure	The stepper motor is directly connected to the screw
Lens size	<ul style="list-style-type: none">• Length: 59.6mm• Width: 33.7m• Height: 38.7mm• Front end diameter: 34.8mm

Motor specifications

Screw pitch	0.4mm
Spiral rotation direction	Right
Rated voltage	4.5-5.0 VDC
Coil resistance	55Ω ± 10%

Phase count	2
Step angle	18° / step
Max start frequency	800 PPS/min @ at 5.0 VDC
Max operating frequency	1200 PPS/min @ 5.0 VDC
Pull torque	2.8 gf-cm min (at 480 PPS @ 5.0 VDC)
Push torque	3.8 gf-cm min (at 480 PPS @ 5.0 VDC)
Operating temperature range	-10°C ~ +70°C

Position alignment sensor PI

Model number	RPI-222 / ROHM
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IR switch

Coil resistance	25 ± 5Ω
Operation voltage	4.5V
Current consumption	144~200mA
Switching time	200-500ms
Filters	<ul style="list-style-type: none"> • Clear glass • 420 ~600nm Tavg >95%

Zoom-Focus curve diagram

