Lens specifications

Optics

Image sensor	1/2.8" Effective image area > 6.4mm
Focal distance	5±5% ~ 100±5%mm
Aperture	f/1.6~f/3.7
Focus range	• WIDE: 1.0m - infinity • TELE: 1.0m - infinity
Field of view (D=6.0mm)	• WIDE: 66.5° • TELE: 3.38°
Relative contrast	• WIDE: >35% • TELE: >63%
Distortion	• WIDE: -9.7% • TELE: 2.1%

Mechanics

Mechanical back focus	-0.92 (in glass t=0.5 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	• Length: 79.9mm • Width: 46mm • Height: 46mm • Front end diameter: 41.8mm

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	-20°C ~ +70°C

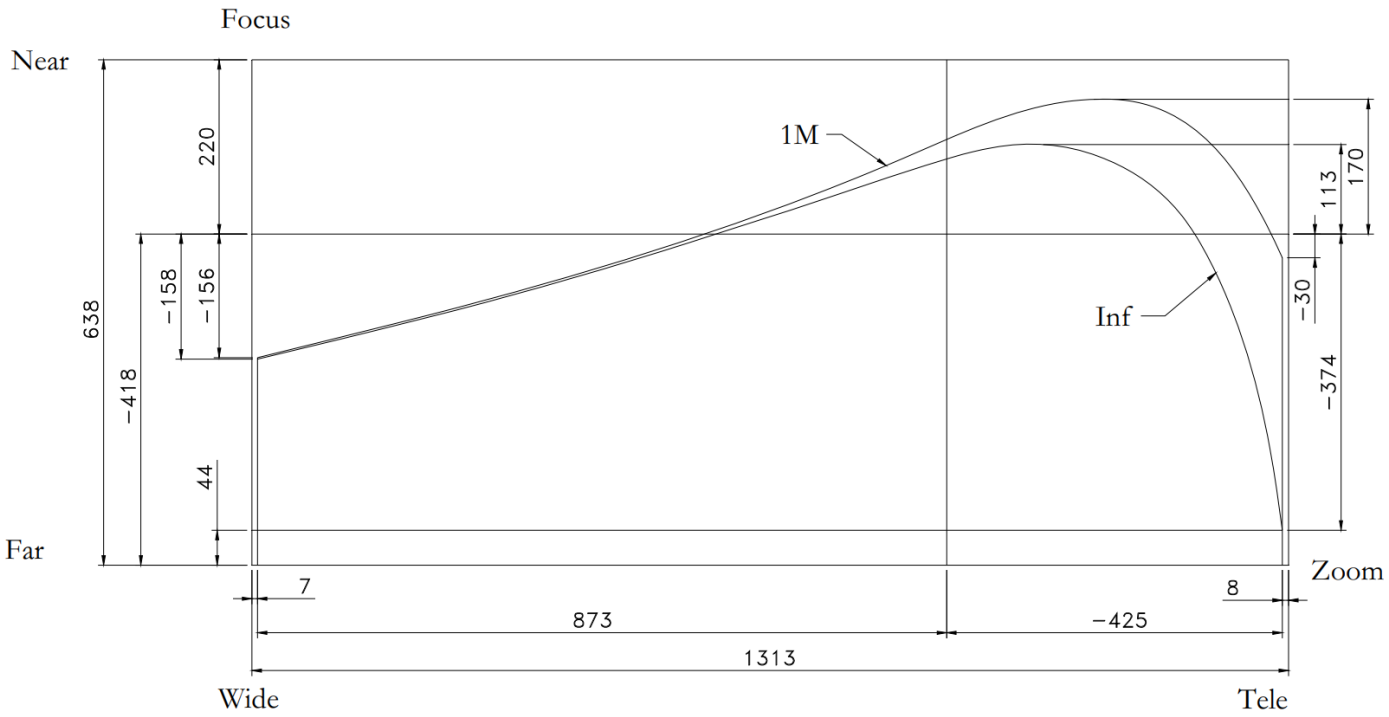
Position alignment sensor PI

Model number	RPI-222 / ROHM

IR switch

Coil resistance	25 ± 5Ω
Operation voltage	4.5V
Current consumption	144~200mA
Switching time	200-500ms
Filters	• Clear glass • 420 ~600nm Tavg >95%

Zoom-Focus curve diagram



Revision #4
Created 1 November 2020 17:15:16 by Saulius
Updated 7 February 2021 19:22:42 by Saulius