

A		B	C		D		
Optical Specification			Distance data/mm	Normal focus distance(Min)	Normal focus distance(Max)	Clear focus distance(Min)	Clear focus distance(Max)
Model		OPT-HP40-65-LQLTC		58.8	63.3	60.5	63.2
Optical Configuration		Telecentric	Optical Power/dpt	10.356	-6.972	6.401	-6.733
Working Distance (at 0 dpt) (mm)		65±2					
Magnification		4.0X					
Sensor ϕ(mm)		18.4(1.1")					
Aperture		F12 ~ F124					
Telecentricity		0.10°					
NA		0.16841 ~ 0.01612					
Distortion		<0.1%					
Depth of Field (mm)		0.06					
Resolution (at 0 dpt) (μm)		6.25					
Image MTF30 (at 0 dpt) (lp/mm)		80					
Field of View ϕ(mm)		4.60					
Mount		C-Mount					
Size (mm)		ϕ47×170.82					
Weight (kg)		0.57					
Filter Thread (mm)		M35×0.5-6H					
O/I Distance without current (mm)		250.3					
Connector type		Hirose HR10G-7R-6SB(73)					
Focus tunable lens specifications		EL-12-30-TC-VIS					
Focal power at 0 mA (25°C, typical) (dpt)		-1 ~ +2					
Focal power range (25°C, ±250 mA)(dpt)		-6~+10					
Wavefront error at 532 nm (vertical/horizontal) (λRMS)		0.15 / 0.23					
Working Temperature		-0°C~+65°C					
Storage temperature		-40°C~+85°C					
Temperature compensation		Yes					
Wavelength range (nm)		400~1000					
[1]Resolution:The resolution is the image resolution. [2]DOF evaluation formula for telecentric lenses: $DOF(mm)=\frac{F\#\times P\times k}{\beta\times\beta}$ F#:The real F-number of a lens when used P:Sensor pixel size (5.5 μm used here) β:Lens magnification k:The parameter based on application (measurement, k=0.015; defect detection, k=0.008; 0.015 used here) At the borders of DOF,the image can still be used for measurement. But only half of the nominal DOF should be used to get a sharp image.							
View Angle				Item	Signature	Date	OPT Machine Vision Tech Co., Ltd. All Rights Reserved
Standard Difference			IT14	Drawing			
Drawing Code			KDPD20170829K04007	Design			Name OPT-HP40-65-LQLTC Unit mm Page 1 / 1 Version V1.0
				Check			
Scale			2:3	Scale	2:3		Name OPT-HP40-65-LQLTC Unit mm Page 1 / 1 Version V1.0
Paper Size			A4	Paper Size	A4		
A			B	C		D	