

VEO_HJ Componon-S 4.0 / 80

For V38 Mounts

Key Features

VEO_HJ Componon-S 4.0 / 80 is a high-performance industrial lens for large format area scan and line scan cameras with image circle diameters of 80 mm.

- V38-Mount
- 80 mm image circle
- Low distortion
- 400 – 1000 nm broadband AR-coating

Applications

- FPD inspection
- PCB inspection
- Web inspection
- Measurement systems
- Package sorting / logistic

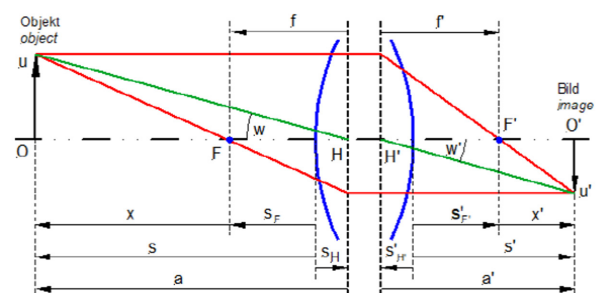
Performance

Parameter	Specification	Remarks
Magnification range	$\times 0 - \times 0.5$	-
F/# range	F/4.0 ... F/45	-
Numerical aperture	0.12	Image plane
Max. sensor size [mm]	80	-
Focal length [mm]	80	-
Wavelength [nm]	400 – 1000	Visible – IR
Distortion [%]	< 0.2	-
Working distance [mm]	214 ... ∞	-
Total length [mm]	2172	0.04 \times
	971	0.1 \times
	429	0.33 \times
Interface	V38 mount	-
Iris	Changeable	-
Weight [g]	109	-
Storage temperature [°C]	-25 ~ 70	-
Filter thread [mm]	M37 * 0.75 pitch	-



Optical Parameters

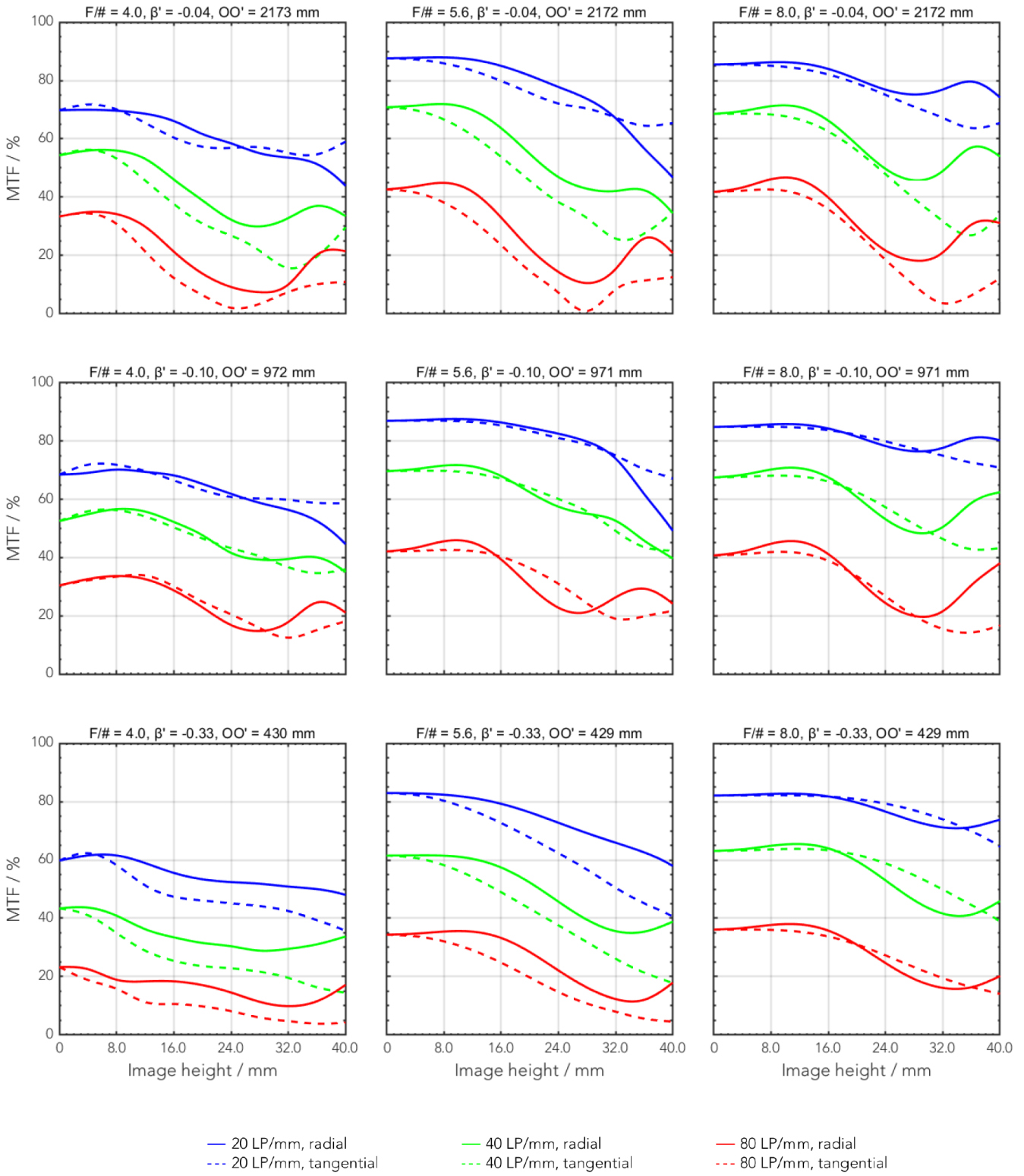
Contents	Parameter	Value
Chief Ray Angle (Max.) in object plane	CRA[°]	53°
Effective focal length	f'eff [mm]	80.34
Front focal length	SF [mm]	-57.92
Back focal length	S'F' [mm]	64.67
Principal plane distance	HH' [mm]	-1.81
Pupil magnification	$\beta'P$	1.03
Entrance pupil position	SEP [mm]	20.29
Exit pupil position	S'AP [mm]	-17.86
Vertex width	Σd [mm]	36.28



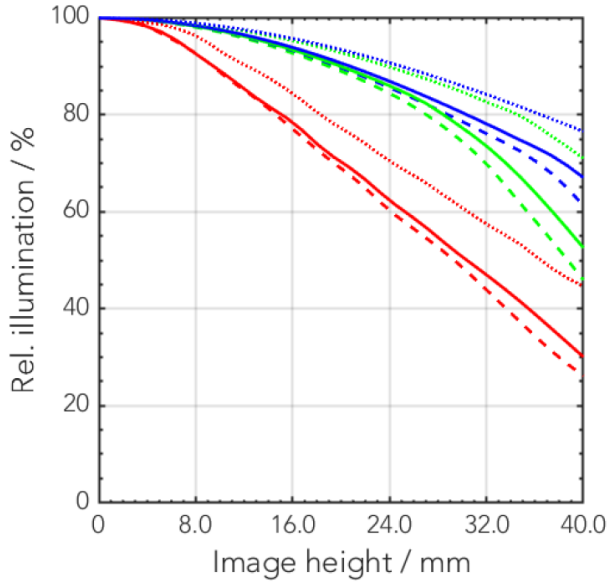
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MTF

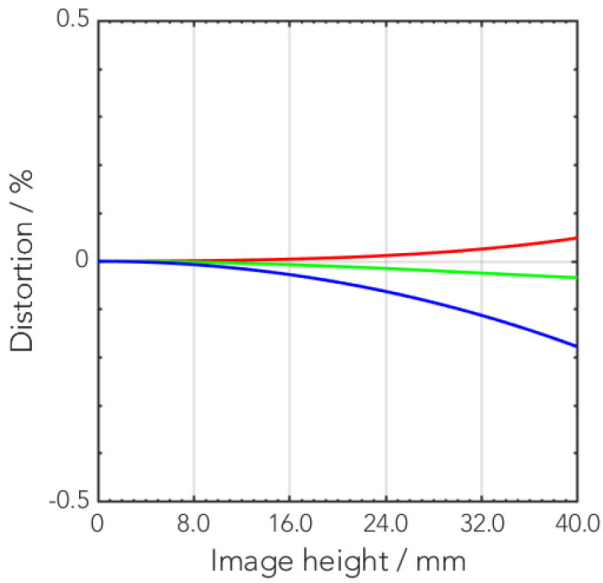


Relative Illumination



- - F/# = 4.0, $\beta' = -0.04$
- - F/# = 5.6, $\beta' = -0.04$
- - F/# = 8.0, $\beta' = -0.04$
- F/# = 4.0, $\beta' = -0.10$
- F/# = 5.6, $\beta' = -0.10$
- F/# = 8.0, $\beta' = -0.10$
- ... F/# = 4.0, $\beta' = -0.33$
- ... F/# = 5.6, $\beta' = -0.33$
- ... F/# = 8.0, $\beta' = -0.33$

Distortion



- $\beta' = -0.04$
- $\beta' = -0.10$
- $\beta' = -0.33$

Transmittance vs. Wavelength

