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RoHS

Ultra-violet Achromats

These lenses have different refractive index and produces a high degree of correction across a bandwidth of 200 – 400nm.

UVA/NUVA

Can be used as a laser focusing lens for broadband ultra-violet sources.

- NA 0.1 or below (ETL model NA 0.25) can be focused to the diffraction limit.
- No adhesive or heat absorption materials are used to produce these lenses and they show high resistance to ultra-violet light.
- These are not achromatic corrective but offers correction on spherical and comatic aberration.









Specifications					
Material	Synthetic fused silica for Excimer Laser – Calcium fluoride (CaF2)				
Design wavelength	200nm, 308nm, 400nm				
Coating	No coating				
Acceptance angle	±1°				

Guide

- Products not found on our catalogue like high pulse lasers or usage on different wavelengths is available upon request. Please contact our International Sales Division.
- We have the capability to produce large amounts of these lenses in custom specifications
- For details on focal length of each wavelength, please see details on our web site. West Reference Catalog Code W3082

Attention

- These focusing lenses are made for use to image an object located in an infinitive distance or using a point of source as a parallel light. Near distance of an image will not produce any good optical result.
- The correct direction to input a parallel light is on the top side of the SIGMA KOKI letters. If the direction is wrong, the spherical aberration will be big and the image unfocused.
- If the wavelength is applied in-correctly, the spherical aberration and transmission will be bad.
- Usage with high power laser or near high temperature light source, the high heat build-up in the lens may alter the focal length. To avoid this, heat prevention is required.
- ► To reduce the focus spot size, ensure that the input beam diameter (1/e²) is reduced to half of the effective diameter of the focus lens.
- These focusing lenses are not chromatic lenses; they are not optically corrected.
- The lenses have 3% to 4% of reflectivity; therefore about over 13% of loss is expected in transmission.



Mirrors

Lenses

Element Optics

Prisms

Substrates & Windows Holder & Vibration isolator

Specifications						
Part Number	Focal length f [mm]	Diameter Dc [mm]	Clear aperture De [mm]	Length L [mm]	Numerical aperture (NA)	Working distance (WD) [mm]
UVA-30-50P	50.4	34	27	17	0.27	39.3
UVA-30-80P	80.0	34	27	14	0.17	72.4
UVA-30-100P	100.1	34	27	13	0.14	92.5
NUVA-30-150P	151.5	34	27	16	0.09	137.1
NUVA-30-200P	200.3	34	27	16	0.07	185.2
UVA-40-80P	80.3	44	37	17	0.23	70.2
NUVA-40-100P	100.0	44	37	18	0.19	87.7
NUVA-40-150P	149.0	44	37	18	0.12	134.4
NUVA-40-200P	201.2	44	37	18	0.09	185.5
NUVA-40-250P	249.7	44	37	19	0.07	230.7
UVA-50-100P	100.8	54	47	20	0.24	89.1
NUVA-50-150P	149.7	54	47	21	0.16	136.3
NUVA-50-200P	200.0	54	47	22	0.12	179.9
NUVA-50-250P	252.4	54	47	21	0.09	233.0
NUVA-50-300P	300.9	54	47	22	0.08	278.8

HOURS

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