

HOUSING ACCESSORIES

High Precision Rotation
Polarizer, Waveplate Mount
840-0186

See page 8.89



Polarizer Holders
840-0180

See page 8.87



Wavelength, nm	Retardation $\lambda/2$		Retardation $\lambda/4$	
	Catalogue number	Price, EUR	Catalogue number	Price, EUR
1550	462-4201	138	462-4401	138
1064	462-4205	138	462-4405	138
1053	462-4206	138	462-4406	138
1030	462-4208	138	462-4408	138
950	462-4210	138	462-4410	138
852	462-4213	138	462-4413	138
800	462-4215	138	462-4415	138
780	462-4220	138	462-4420	138
770	462-4221	138	462-4421	138
633	462-4225	138	462-4425	138
589	462-4228	138	462-4428	138
532	462-4230	138	462-4430	138
527	462-4231	138	462-4431	138
515	462-4232	138	462-4432	138
448	462-4233	138	462-4433	138
400	462-4235	138	462-4435	138
355	462-4240	143	462-4440	143
343	462-4241	143	462-4441	143
266	462-4245	153	462-4445	153
257	462-4246	153	462-4446	153

Please contact us for other wavelength, size or precision requirements.

MULTIPLE ORDER DUAL WAVELENGTH WAVEPLATES

- Operate at both first and second Nd:YAG laser harmonics
- Retardation tolerance $< \lambda/300$

SPECIFICATIONS

Material	Single crystal quartz
Optical axis	normal to facet on circumference of retarder
Wavefront distortion	$\lambda/10$ @ 633 nm
Clear aperture	$\varnothing 17$ mm
Ring mount outer diameter	25.4 +0.0 / -0.12 mm
Surface quality	20-10 scratch & dig (MIL-PRF-13830B)
Parallelism	< 10 arcsec
AR coating	$R < 0.5\%$
Nominal thickness of waveplate	0.2-1.2 mm
Laser damage threshold	5 J/cm ² , 10 nsec pulse, 1064 nm typical

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Retardation and Wavelength	Catalogue number	Price, EUR
λ @ 1064nm + $\lambda/2$ @ 532 nm	463-4120	215
λ @ 1064nm + $\lambda/4$ @ 532 nm	463-4140	215
$\lambda/2$ @ 1064nm + λ @ 532 nm	463-4210	215
$\lambda/2$ @ 1064nm + $\lambda/2$ @ 532 nm	463-4220	215
$\lambda/2$ @ 1064nm + $\lambda/4$ @ 532 nm	463-4240	215
$\lambda/4$ @ 1064nm + λ @ 532 nm	463-4410	215
$\lambda/4$ @ 1064nm + $\lambda/2$ @ 532 nm	463-4420	215
$\lambda/4$ @ 1064nm + $\lambda/4$ @ 532 nm	463-4440	215
λ @ 800nm + $\lambda/2$ @ 400nm	463-4121	215
λ @ 800nm + $\lambda/4$ @ 400nm	463-4141	215
$\lambda/2$ @ 800nm + λ @ 400nm	463-4211	215
$\lambda/2$ @ 800nm + $\lambda/2$ @ 400nm	463-4221	215
$\lambda/2$ @ 800nm + $\lambda/4$ @ 400nm	463-4241	215
$\lambda/4$ @ 800nm + λ @ 400nm	463-4411	215
$\lambda/4$ @ 800nm + $\lambda/2$ @ 400nm	463-4421	215
$\lambda/4$ @ 800nm + $\lambda/4$ @ 400nm	463-4441	215