

Watt Pilot - Motorized Attenuator, Enhanced Version

Description

Enhanced version incorporates rotating quartz $\lambda/2$ phase Waveplate and one or two thin film polarizers which separate s-polarized and p-polarized beams. The intensity ratio of these two beams is continuously tuned by rotating the waveplate.

Watt Pilot is essential in systems, where stable laser power adjusting is necessary. Despite stand alone device look, motorized attenuator is very compact and it can be easily integrated in custom optical system.

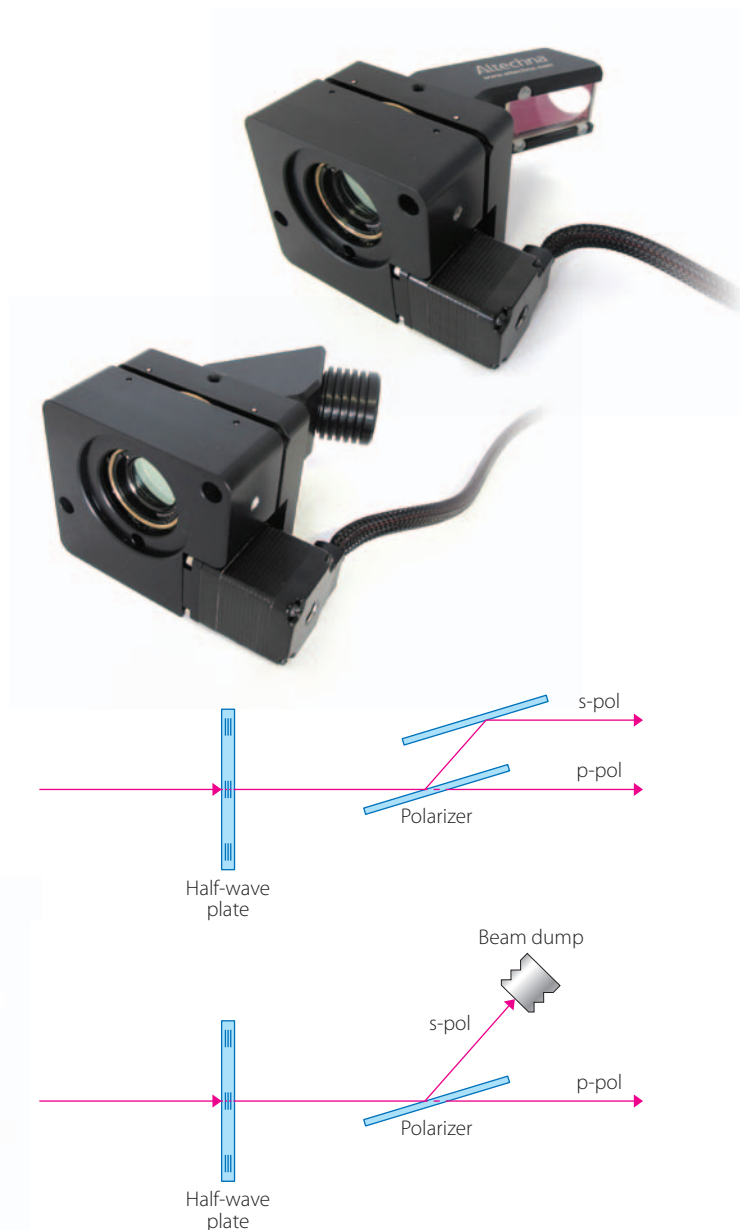
Features

- Divides laser beam into several beams of manually adjustable intensity ratio
- Ideal for femtosecond and high energy laser applications
- High optical damage threshold
- Time dispersion: $t < 4$ fs for 100 fs Ti:Sapphire laser pulses



Manual version of Enhanced Watt Pilot

CE compliant



Manual version of Watt Pilot model costs 750 € less than the motorized model found in the catalogue.

→ Read further

Catalog Items

Clear aperture, mm	Operational wavelength, nm	Bandwidth	Configuration	Optimization	Attenuation range @ CWL	Damage threshold	Product ID	Price
15	266	±5 nm	λ/2 ZO waveplate + 2x TFP	Reflection	0.3-99 %	>5 J/cm² 10 Hz, 10 ns, 1064 nm; or >100 mJ/cm² 1 kHz 100 fs, 800 nm	2-EWP-R-0266-M	1500 €
	343						2-EWP-R-0343-M	1470 €
	355						2-EWP-R-0355-M	1470 €
	400						2-EWP-R-0400-M	1470 €
	515						2-EWP-R-0515-M	1470 €
	532						2-EWP-R-0532-M	1470 €
	780						2-EWP-R-0780-M	1470 €
	800						2-EWP-R-0800-M	1470 €
	1064						2-EWP-R-1064-M	1470 €
	1550						2-EWP-R-1550-M	1470 €
	780-820	±20 nm	λ/2 ZO waveplate + 2x broadband (ultrafast) TFP	Broadband reflection mode	0.5-98 %		2-EWP-BBR-0800-M	1570 €
	1020-1040						2-EWP-BBR-1030-M	1570 €
	266	±5 nm	λ/2 ZO waveplate + TFP	Transmission mode	0.5-95 %		2-EWP-T-0266-M	1480 €
	355						2-EWP-T-0355-M	1450 €
	400						2-EWP-T-0400-M	1450 €
	515						2-EWP-T-0515-M	1450 €
	532						2-EWP-T-0532-M	1450 €
	780						2-EWP-T-0780-M	1450 €
	780-820						2-EWP-T-7882-M	1490 €
	800						2-EWP-T-0800-M	1450 €
	1020-1040						2-EWP-T-1030-M	1490 €
	1064						2-EWP-T-1064-M	1450 €
	1550						2-EWP-T-1550-M	1450 €

Related products and accessories

Watt Pilot Motorized Attenuator



Refer to page 192

Beam Dumps



Refer to page 215

Watt Pilot - Motorized Attenuator, Ultrafast Version

Description

Ideal for ultraSHORT laser pulses (down to 20 fs).

Ultrafast version incorporates rotating quartz $\lambda/2$ phase waveplate and two (or one) high-performance broadband 72 degree polarizers. The intensity ratio of these two beams is continuously tuned by rotating the waveplate.

There are 4 types of ultraFAST attenuators: they can be reflection or transmission type and contrast or transmission/reflection optimized. For more information and curves on polarizers please check broadband (ultrafast) thin film polarizers section (page 124).

Features

- Ideal for ultra short femtosecond pulses
- Divides laser beam into two beams of manually adjustable intensity ratio
- High optical damage threshold
- Low dispersion for femtosecond laser pulses

CE compliant

Manual version of Watt Pilot model costs 750 € less than the motorized model found in the catalogue.



Manual version of UltraFAST Watt Pilot



Large aperture Watt Pilot, CA=Ø40mm

→ Read further

Catalog Items

Clear aperture, mm	Operational wavelength, nm	Bandwidth	Configuration	Optimization	Attenuation range @ CWL	Damage threshold	Product ID	Price
15	775-825	±25 nm	$\lambda/2$ ZO waveplate + Broadband (ultrafast) TFP	Transmission mode	1-85 %	10 ns @ 1064 nm >100 mJ/cm ² @100 fs, 800 nm	2-UWP-T1-800-M	1970 €
	1005-1055						2-UWP-T1-1030-M	1970 €
	775-825			Transmission contrast mode	0.2-70 %		2-UWP-T2-800-M	1970 €
	1005-1055						2-UWP-T2-1030-M	1970 €
	775-825			Reflection mode	4-96 %		2-UWP-R1-800-M	1970 €
	1005-1055						2-UWP-R1-1030-M	1970 €
	775-825	± 50 nm	$\lambda/2$ achromatic waveplate + Broadband (ultrafast) TFP	Reflection contrast mode	0.1-70 %		2-UWP-R2-800-M	1970 €
	1005-1055						2-UWP-R2-1030-M	1970 €
	750-850			Transmission mode	1-85 %		2-UWPA-T1-800-M	2130 €
	980-1090						2-UWPA-T1-1030-M	2130 €
	750-850			Transmission contrast mode	0.2-70 %		2-UWPA-T2-800-M	2130 €
	980-1090						2-UWPA-T2-1030-M	2130 €
	750-850			Reflection mode	4-96 %		2-UWPA-R1-800-M	2130 €
	980-1090						2-UWPA-R1-1030-M	2130 €
	750-850			Reflection contrast mode	0.1-70 %		2-UWPA-R2-800-M	2130 €
	980-1090						2-UWPA-R2-1030-M	2130 €

Related products and accessories

Yb:KGW and Yb:KYW Crystals



Refer to page 149

Autocorrelators



Refer to page 213

Beam Dumps



Refer to page 215

Ti:Sapphire Crystals



Refer to page 140