Watt Pilot - Motorized Attenuator, Ultrafast Version

Description

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

Ultrafast version of watt pilot is intended for laser pulses <100 fs. Construction incorporates a rotating λ/2 waveplate and two high-performance broadband 72° polarizers, which split the beam into two parallel beams with the internsity ratios continuously tuned by rotating the waveplate.

There are 2 standardized types of ultraFAST attenuators: one for mazimum transmitted energy and one for maximum blocked beam. However any intermediate versions and other wavelength ranges are available upon request.

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

CE compliant

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

Standard specifications

Clear aperture	15 mm
Bandwidth	Up to ±50 nm
Typical application	For ±25 nm bandwidth: Ultrafast, broadband laser sources with pulse length 100-50 fs
	For ± 50 nm bandwidth: Ultrafast, broadband laser sources with pulse length <50 fs
Damage threshold	>5 J/cm^2 10 Hz, 10 ns, 1064 nm
	>100 mJ/cm^2 1 kHz 100 fs, 800 nm
Dimensions	91x63x187 mm
Time between min and max attenuation	3 sec
Resolution	41.54 arcsec/step
Step accuracy in full rotation	±4 steps
Backlash	±4 steps

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