

Watt Pilot - Motorized Attenuator, Broadband Version



Description

Ideal solution for NIR and MID-IR wavelengths, where a wide operation wavelength range is required. Broadband motorized attenuator version incorporates a rotating $\lambda/2$ waveplate and Glan Laser type polarizer which separates s-polarized and p-polarized beams. S-polarized beam is eliminated in a beam dump, while p-polarized beam's intensity is continuously tuned by rotating the waveplate. Watt Pilot is essential in systems, where stable adjustment of laser power is necessary. Despite stand alone device look, the motorized attenuator is very compact and can be easily integrated in custom optical systems.

Features

- Wide operation range in NIR and Mid-IR spectrum
- High optical damage threshold

Standard specifications

Clear aperture	12 mm
Bandwidth	up to 5000 nm
Attenuation range @ CWL	1-90%
Typical application	NIR to MID-IR
Damage threshold	$>5 \text{ J/cm}^2$ 10 Hz, 10 ns, 1064 nm
Dimensions	91x63x90 mm
Time between min and max attenuation	3 sec
Resolution	41.54 arcsec/step
Step accuracy in full rotation	± 4 steps
Backlash	± 4 steps

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

CE compliant