

A P E

Accurate pulse width measurements with the APE family of autocorrelators

APE offers an autocorrelator product line consisting of three different autocorrelators - the **Mini**, the **PulseCheck** and the **Carpe**.

MINI

The **Mini** is a compact, standard autocorrelator with an integrated display, the ability to operate with low repetition rate lasers, and an RS232 / USB interface. Operating with either high or low repetition rate lasers, the user can easily adjust the **Mini** to produce noncollinear background-free autocorrelation functions, or collinear autocorrelation functions of either type: intensity or fringe resolved. The measurement range spans from femtoseconds up to a few picoseconds with a number of standard wavelength ranges available.

PULSE CHECK

The **PulseCheck** is a very flexible autocorrelator that is operated from a dedicated electronic controller with a color LCD display. In addition to the features of the **Mini**, the **PulseCheck** measures pulsewidths from femtoseconds up to hundreds of picoseconds in different delay versions, while it covers a broader range of wavelengths. The newest add on is the **PulseLink** – a USB controller with high resolution digitizing and high speed readout of the autocorrelation function. Amongst the optional features available for this autocorrelator are a spectrometer and a FROG option, converting the autocorrelator **PulseCheck** into a measuring device which allows the most detailed analysis of the ultrafast pulse.

CARPE

Designed specifically for laser microscopy the **Carpe** provides information about the pulse length of the ultrafast laser beam before and after it passes through a microscope. This way it allows to get the important information on the considerable broadening of the laser pulse caused by dispersion of the optical material in a microscope, that changes and degrades the test conditions.

Ultrafast Pulse Diagnostics

Wavelength Conversion

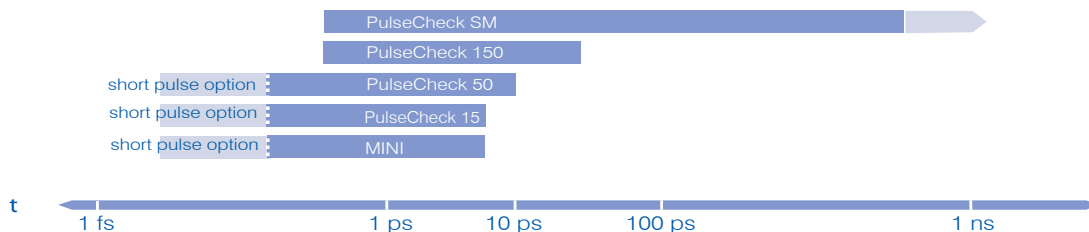
Pulse Management

Acoustooptics

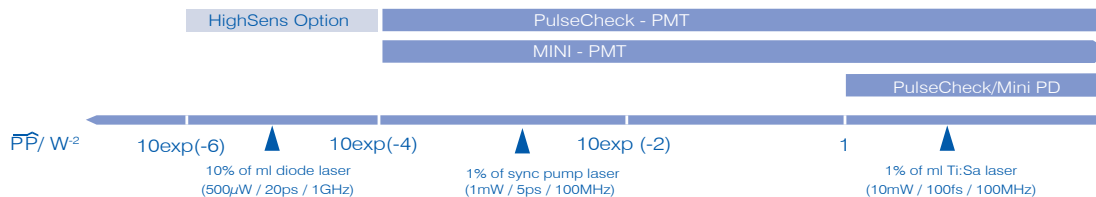
Your Partner in Ultrafast



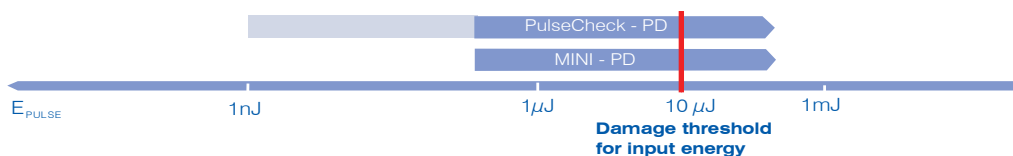
PULSE WIDTH MEASURING RANGES



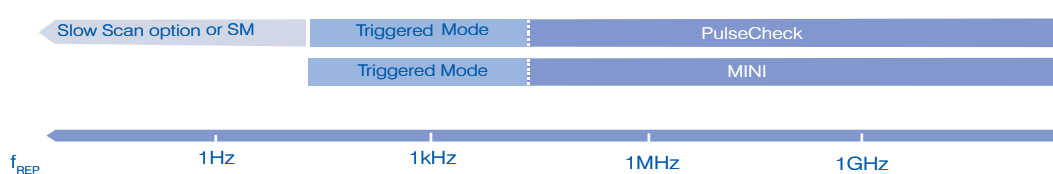
SENSITIVITY



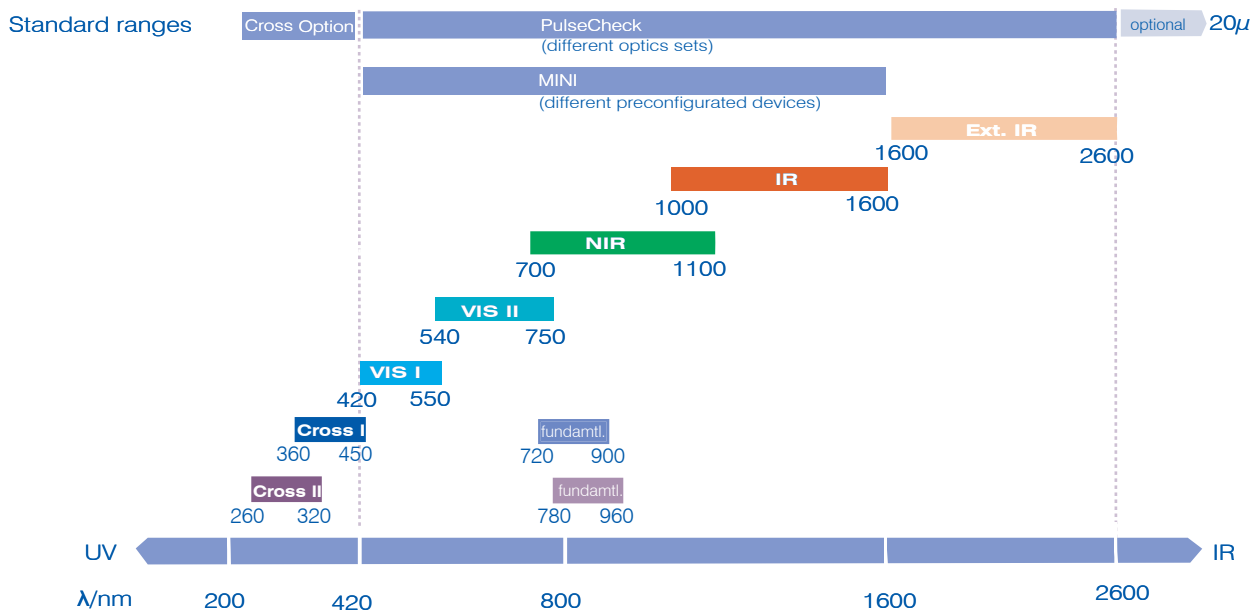
INPUT PULSE ENERGY (LOW REP RATE <10 kHz), TRIGGERED MODE



REPETITION RATE



WAVELENGTH RANGES



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APE follows a policy of continued product improvement. Therefore, specifications are subject to change without notice.