



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 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 through hundreds of picoseconds in different delay versions, while it covers a broader range of wavelengths. 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 a microscope. It is necessary to detect the considerable broadening of the laser pulse caused by the dispersion of the optical material in a microscope, because it changes and degrades the test conditions.

Ultrafast Pulse Diagnostics

Spectral Analysis

Acoustooptics

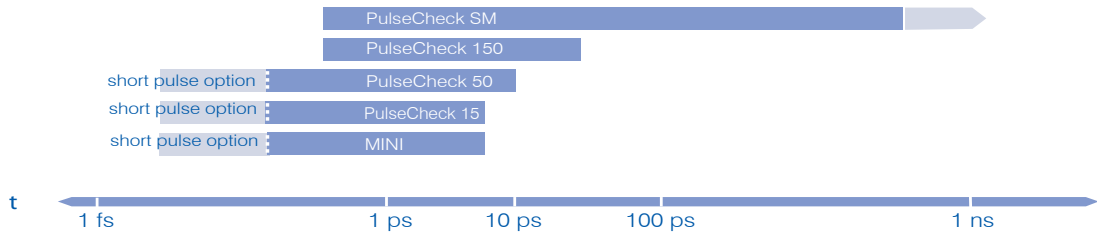
Pulse Management

Wavelength Conversion

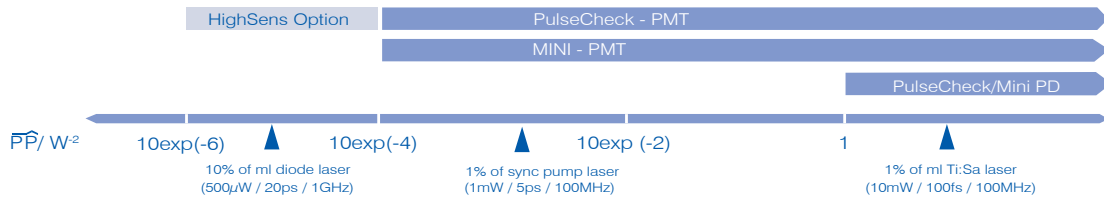
**Your Partner in Ultrafast**



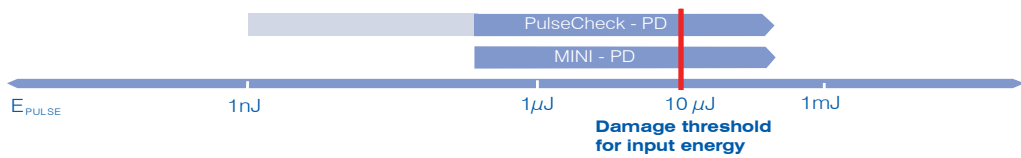
**PULSE DURATION MEASURING RANGES**



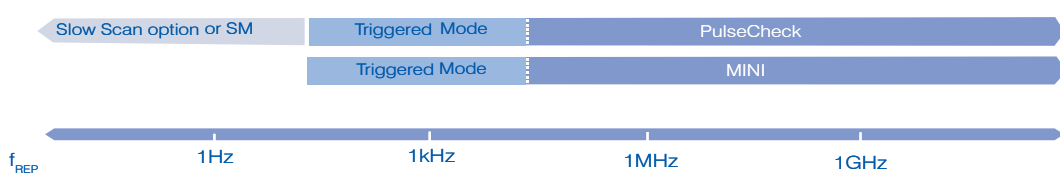
**SENSITIVITY**



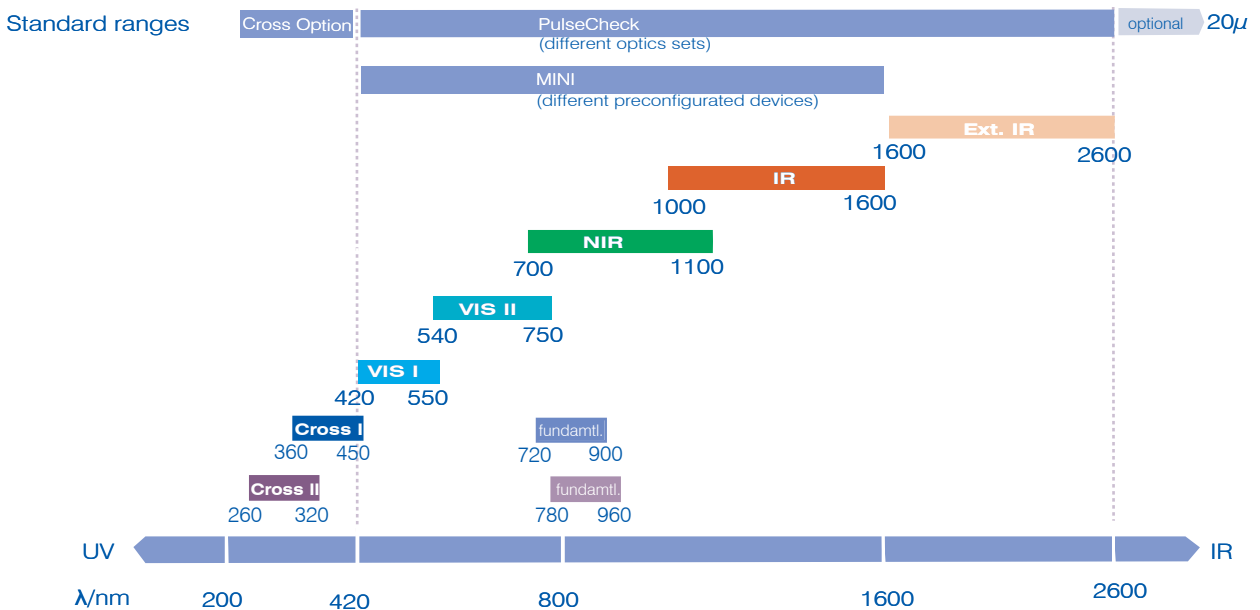
**INPUT PULSE ENERGY (LOW REP RATE <10 KHz), TRIGGERED MODE**



**REPETITION RATE**



**WAVELENGTH RANGES**



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