APE Family of Autocorrelators

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

Mini USB

The Mini USB is a compact autocorrelator with a very small form factor. The user can easily adjust the Mini USB to measure non-collinear (intensity) autocorrelation functions, or collinear autocorrelation functions. The measurement range spans from femtoseconds up to a few picoseconds with a number of standard predefined wavelength ranges available. The Mini USB includes an optical head and a control unit which connects the optical head to the computer. It enables a much higher number of data points and hence improves the resolution of the measurement significantly compared to previous designs. A special version for measuring the UV-Blue range is available as well.

pulseCheck USB

The *pulse*Check USB is a very flexible autocorrelator. In addition to the features of the Mini, the *pulse*Check USB measures pulse widths from femtoseconds up to hundreds of picoseconds in different delay versions. It also covers a broader wavelength range than the Mini USB. Amongst the optional features available for this autocorrelator is a FROG option, converting the autocorrelator *pulse*Check USB into a measuring device which allows for more detailed analysis of ultrafast pulses. The *pulse*Link control unit connects the optical head with the computer. Due to the USB connection the data point density is much improved.

Carpe

Designed specifically for laser microscopy, the Carpe provides information about the pulse length of an ultrafast laser beam before and after it passes through a microscope. Now the broadening of the laser pulse caused by dispersion of the optical material in a microscope can be obtained. This is an important information since pulse broadening results in reduced peak power of the pulse. Versions for especially short working distances and short pulses are available as well.





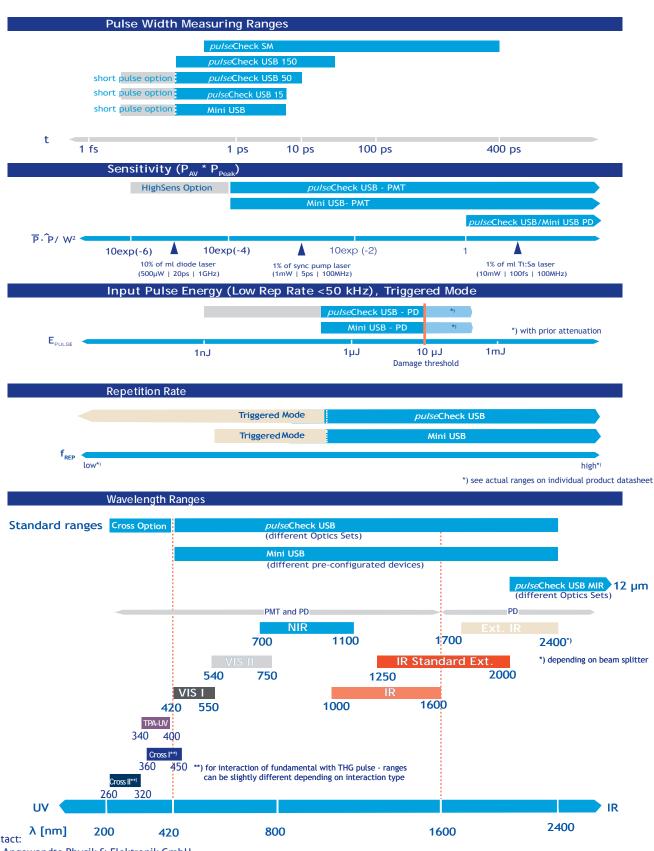
Mini USB



pulseCheck USB



Accurate Pulse Width Measurements



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