



A P E

# PULSE CHECK TC

Based on their experience in ultrafast measurement, APE has developed an autocorrelator for the specific needs of the telecommunication industry. It consists of a sealed optical unit and the APE **PulseCheck** autocorrelator controller. The two units are designed as a desktop instrument.

In addition to the features of the well known APE autocorrelator series the **PulseCheckTC** stands out with a new translation stage with extended scan range. It allows for fast scanning as well as low-speed but highly sensitive measuring modes. The unique optical design is factory aligned so there is no need for further adjustment.



Fiber input

Easy to use and adjustment free

Power and polarization monitor

Highest sensitivity

Background-free and collinear ACF

Fringed resolved traces

Laser Diagnostics

Spectral Analysis

Acoustooptics

Non-Linear Optics

Accessories

**Your Partner in Ultrafast**

## SPECIFICATIONS

Max. scan range	150 ps (others optional)
Max. pulse width	35 ps
Min. pulse width	120 fs
Scan rate	approx. 0,01 ... 6 Hz (depending on operation mode)
Linearity	Better 1% of actual scan range
Sensitivity	$10^{-7}W^2$
Wavelength range	1500 ... 1600 nm (others optional)
Input polarization	Vertical
Min. laser repetition rate	Any
Interaction	Collinear ... non-collinear
Power supply	95 ... 240 V, 50 ... 60 Hz, 60 W
Readout Colour	LCD 320 x 240 pixels
Output	Delay: analog 0 ... 10 V Signal: analog 0 ... 10 V RS232 serial interface (parallel interface IEEE488 optional)
Input	Trigger: > 3 V, f < 5 kHz

## OPTIONS

Logarithmic preamplifier  
 Customized wavelength ranges  
 Windows control software  
 LabView driver  
 IEEE488 (instead of RS232)  
 Input polarization controller

## DIMENSIONS (l\*w\*h)

Optics Unit	350mm × 327mm × 185mm
Control Electronics	350mm × 327mm × 185mm



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