

ST10 Time-Resolved Spectroscopy System

ST10 Ultrafast Time-Resolved Spectroscopy System

An integrated spectrograph, streak camera, relay optics and software platform records wavelength and time in the same image. Optical collection is configured for fibres, samples or microscopy.

1. Collected emission

2. Spectrograph + streak

3. Wavelength-time map

Best suited to

Time-resolved photoluminescence, semiconductor carrier dynamics and plasma emission.

Configuration

Select the required time window and spectral band together. The highest temporal resolution, broadest single-shot band and finest spectral resolution require different optical settings.

Specifications

Published parameters	
Configurable spectral interval	200–900 nm
System time resolution	≤6 ps at the shortest time window
Time-window selection	500 ps–1 ms, ten ranges
Modes	Static, low-frequency and high-frequency scanning
Spectrograph focal lengths	200 / 320 / 500 / 750 mm
System spectral resolution, 1200 lines/mm	≤0.3 / ≤0.2 / ≤0.1 / <0.08 nm
Single-shot span, 150 lines/mm	>200 / >120 / >80 / >50 nm

Measurement features

- Static spectral acquisition and transient streak images.
- Lifetime-curve extraction and system control software.
- Precision relay and focal-plane alignment.

Configuration note

Resolution and coverage are configuration-dependent. The quotation identifies the camera manufacturer and the optical integration supplied.

Full configuration: www.precisometer.com/spectroscopy/spectral-imaging/ultrafast-spectroscopy