

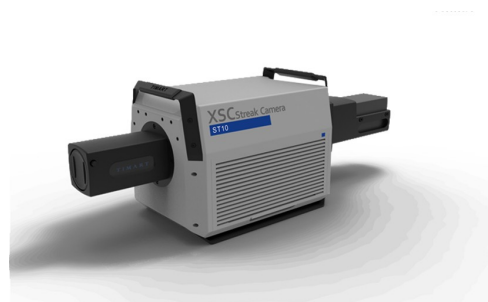
TIMART ST10 / T40 / T40-HDR

TIMART ST10, T40 & T40-HDR Streak Cameras

TIMART cameras were developed by the Xi'an Institute of Optics and Precision Mechanics, Chinese Academy of Sciences. They are offered here as a separately attributed camera family for spectroscopy integration.

A streak-camera family spanning synchronised ultrafast scanning and long-slit triggered acquisition. ST10, T40 and T40-HDR configurations differ in temporal resolution, slit length and readout coupling.

Best suited to: Time-resolved photoluminescence, scintillator emission and fast discharge measurements.



Configuration

Specify single-shot or repetitive operation first, then the time window and spectral-image length. Confirm tube, photocathode and readout configuration together; a tube figure is not a guaranteed system response.

Specifications

Published parameters	
Photocathode options	S20: 200–850 nm; BB: 200–900 nm; S25: 350–900 nm
ST10 synchronised sweep	40–300 MHz
Triggered sweep windows	1 ns–1 ms, model dependent
Slit adjustment	0–3 mm, manual

Published family comparison

Family	Typical tube resolution	Cathode slit	Triggered repetition
ST10	≤ 2 ps	8 mm	Single shot or < 10 kHz
T40	50 ps	35 mm	Single shot or < 1 kHz
T40-HDR	10 ps	30 mm	Single shot or < 1 kHz

Measurement features

- ST10 lens-coupled or fibre-faceplate readout.
- Single- or dual-MCP ST10 configurations.
- Spectrograph integration for wavelength-time images.

Configuration note

Ordering models include ST10-1L/-2L, ST10-1F/-2F, T40-1F and T40-1F-HDR. Use model-specific figures; the source overview and detailed table differ. The malformed synchronous sweep-range unit is omitted.

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