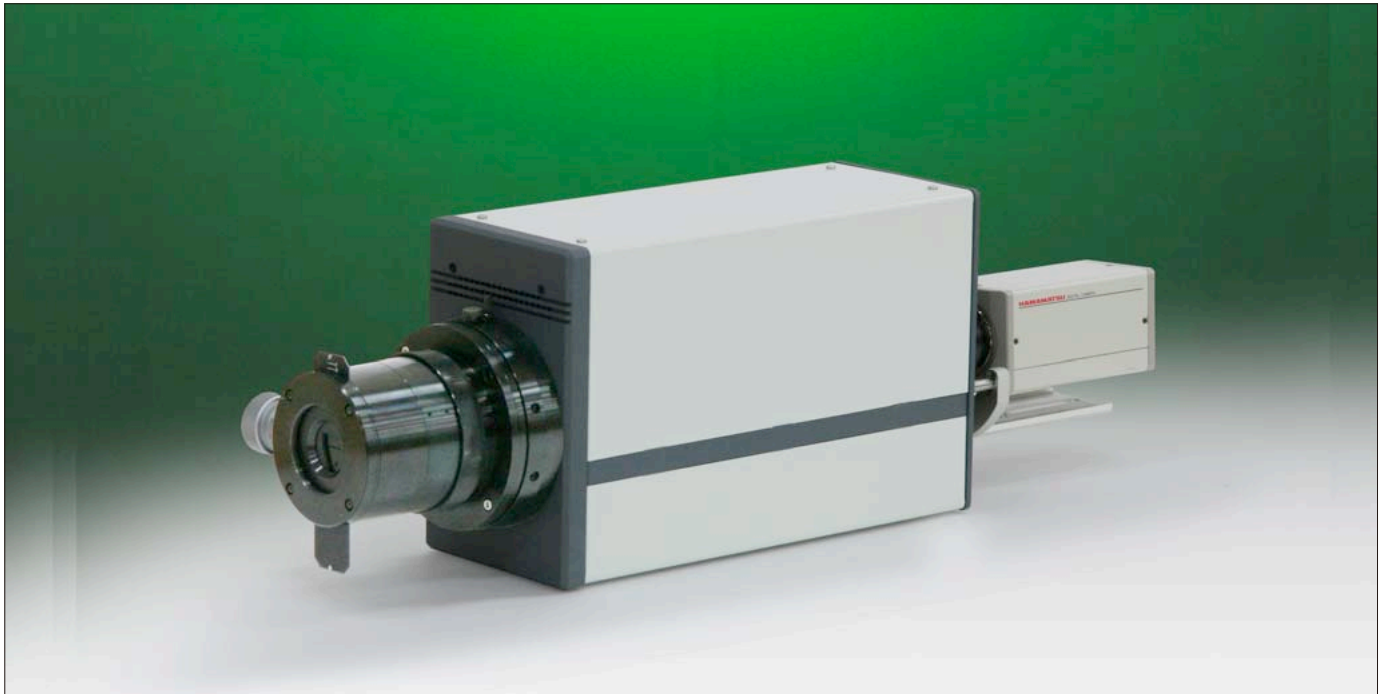


Streak camera C10627 series

Sweep frequency of 20 MHz !

Now make fluorescence lifetime measurements with higher sensitivity.



Introducing the Streak camera C10627 with a maximum sweep frequency up to 20MHz, 10 times faster sweep provides 10 times the signal or 1/10 the acquisition time. Along with faster readout digital readout enables the Streak camera C10627 to capture weak, short-lifetime samples excited by a compact laser or even LEDs. Combined with the confocal microscope or scanning near-field optical microscope (SNOM), the Streak camera C10627 measures luminescence lifetime in extremely small regions and generates lifetime mapping for semiconductor or biological samples.

Measurement example

● Time-Resolved Fluorescence Lifetime Measurement

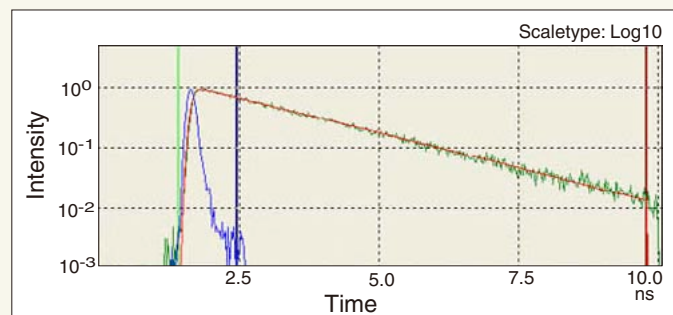
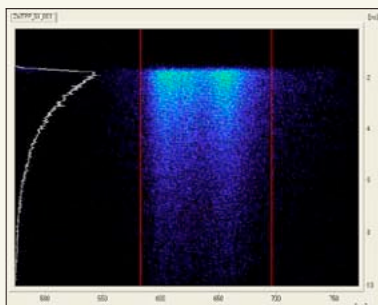
The measurement example for the standard sample with the PLP-10 as the excitation light source.
A few to a few tens seconds accumulation required for the data acquisition per sample.

[Sample]

Zinc Tetraphenylporphyrin
Ethanol solution
Air-saturated

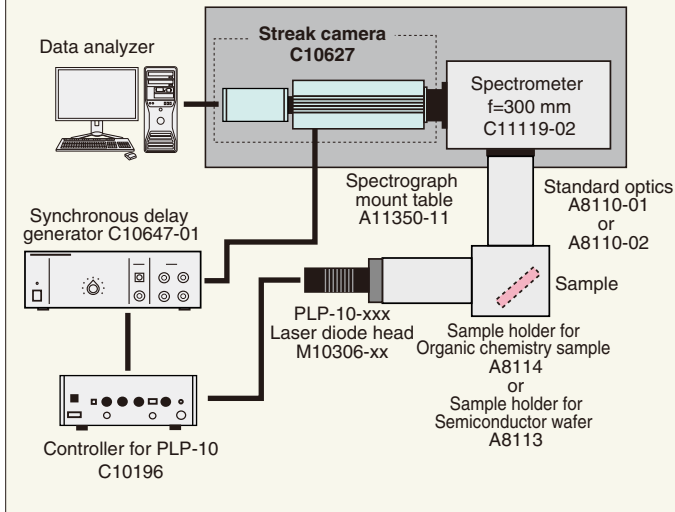
[Excitation wavelength]

405 nm (PLP-10)
Analysis result $\tau = 1.97$ ns



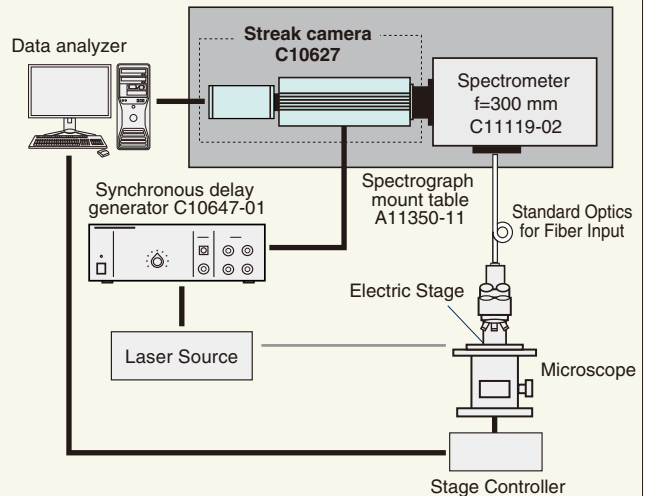
Configuration example 1

● Combination with PLP-10



Configuration example 2

● Combination with a Microscope



Specifications

Temporal resolution	Better than 15 ps (in single shot)
Sweep time	1 ns to 10 ms/ full scale
Trigger jitter	Better than 20 ps
Trigger delay	Approx. 10 ns (fastest range)
Maximum sweep repetition frequency (max.)	20 MHz (1 ns range, 2 ns range)

Option

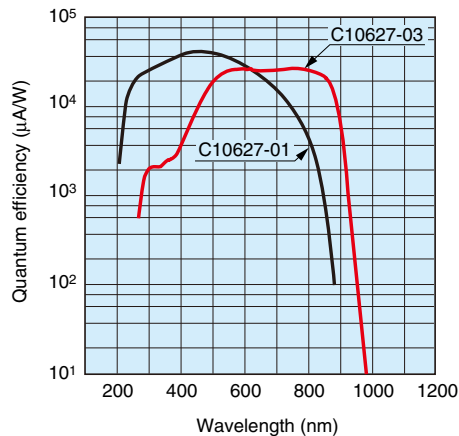
■ Spectrometer C11119-02

The Czerny-Turner Spectrometer C11119-02 with a focal length of 300 mm and F/4 provides highly efficient throughput to the streak camera by the use of an aberration-correction optical system. Includes a multiple-grating turret with more than 20 gratings* to choose from, integrated software control including entrance slit control. The Spectrograph mount table A11350-11 simplifies the coupling and alignment of the Spectrometer C11119-02 and the Streak camera C10627.

* Higher resolution gratings may effect temporal resolution.

Optics system	Czerny-Turner type (with aberration-corrected toroidal mirror)
Focal length	300 mm
Aperture ratio	F/4
Incident slit	Variable between 10 μm and 3000 μm
Grating mount	Grating mount accommodates up to 3 gratings. (It is possible to add turret as an optional extra.)

Spectral response characteristics



▲ Spectrometer C11119-02

- Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult your local sales representative.
 - Information furnished by HAMAMATSU is believed to be reliable. However, no responsibility is assumed for possible inaccuracies or omissions. Specifications and external appearance are subject to change without notice.
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