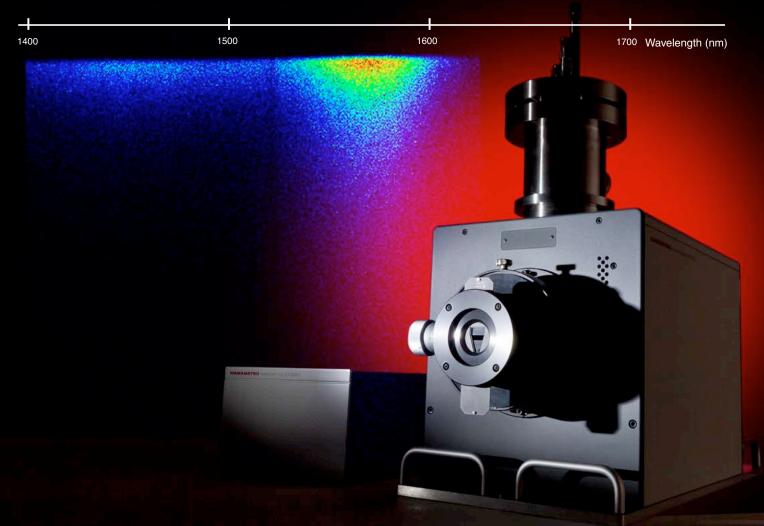
NIR streak camera C11293-02

For picosecond time-resolved measurements of low level light emissions in the near-infrared region (1000 nm to 1650 nm) with semiconductor photocathode (InP/InGaAs)



The NIR streak camera C11293-02 delivers much higher sensitivity in the near-infrared region than previously available. The C11293 utilizes a Hamamatsu streak tube with semiconductor photocathode (InP/InGaAs) to make picosecond time-resolved measurements of low-level light emissions in the near-infrared region. The C11293-02 enables simple and efficient measurements with sweep repetition rates up to 20 MHz. The streak tube provides high signal-to-noise ratio with low dark current by means of photocathode cooling to -80 °C. Applications include time-resolved spectroscopy measurements of various semiconductor materials as well as time response of various light sources and devices.

Features

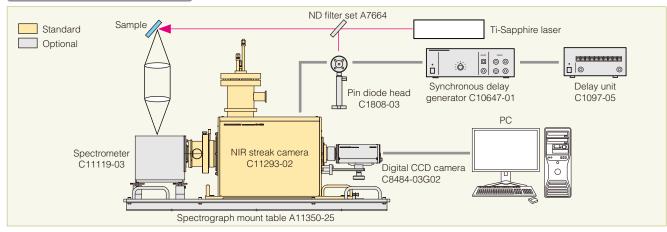
- Measurement wavelength: 1000 nm to 1650 nm
- Temporal resolution: 20 ps
- Multichannel measurement

Applications

- Quantum nanostructures
- Photonic crystal research
- Carbon nanotube research
- Material for photovoltaics
- Optical communication





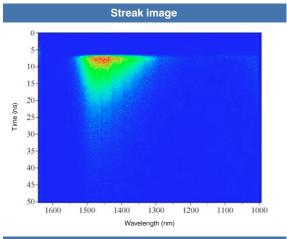


Measurement examples

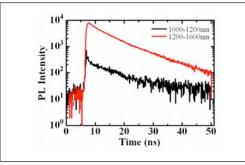
Emission lifetime of quantum well (MQW488Bflat) captured with streak camera

Excitation light source: Ti-Sapphire Laser

Wavelength: 923 nm, Pulse width: 2 ps, Repetition rate: 2 MHz



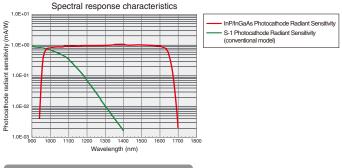
Fluorescence lifetime measurement



Data courtesy of Kyoto University,

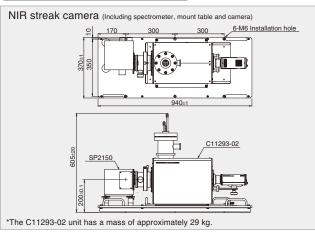
Department of Electronic and Engineering, Noda Laboratory

Type number	C11293-02
Measurement wavelength range	1000 nm to 1650 nm
Sweep time	1 ns, 2 ns, 5 ns, 10 ns, 20 ns, 50 ns, 100 ns, 200 ns 500 ns, 1 µs, 2 µs, 5 µs,10 µs, 20 µs, 50 µs 100 µs, 200 µs, 500 µs, 1 ms, 2 ms, 5 ms, 10 ms
Temporal resolution	20 ps (FWHM)
Sweep repetition frequency (Max.)	20 MHz (1 ns, 2 ns)
Photocathode cooled temperature	−80 °C or less





Specifications



* Product and software package names noted in this documentation are trademarks or registered trademarks of their respective manufacturers.

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.
- © 2015 Hamamatsu Photonics K.K.

HAMAMATSU PHOTONICS K.K. www.hamamatsu.com

HAMAMATSU PHOTONICS K.K., Systems Division

812 Joko-cho, Higashi-ku, Hamamatsu City, 431-3196, Japan, Telephone: (81)53-431-0124, Fax: (81)53-435-1574, E-mail: export@sys.hpk.co.jp

U.S.A.: Hamamatsu Corporation: 360 Foothill Road, Bridgewater, N.J 08807, U.S.A., Telephone: (1)908-231-0960, Fax: (1)908-231-1218 E-mail: usa@hamamatsu.com Germany: Hamamatsu Photonics Deutschland GmbH.: Arzbergerstr. 10, D-82211 Herrsching am Ammersee, Germany, Telephone: (4)9152-375-0, Fax: (4)9152-265-8 E-mail: info@hamamatsu.de France: Hamamatsu Photonics France SA.R.L: 19, Rue du Saule Trapu, Pare du Moulin de Massy, Of882, Massy Cedex, France, Telephone: (3)9165-275-0, Fax: (3)1695 371 10 E-mail: info@hamamatsu.de Vinted Kingdom: Hamamatsu Photonics VL Limited: 2 Howard Court,10 Tewin Road, Welwyn Garden City, Hertfordshire AL7 1BW, UK, Telephone: (4)1707-294888, Fax: (4)1707-325777 E-mail: info@hamamatsu.co.uk North Europe: Hamamatsu Photonics Italis S.T.I: Strada della Moia, 1 inf. 6 20020 Arses (Milano), Italy, Telephone: (4)68-509-031-01, Famal: info@hamamatsu.et Taly: Hamamatsu Photonics Italis S.T.I: Strada della Moia, 1 inf. 6 20020 Arses (Milano), Italy, Telephone: (4)02-93581731 E-mail: info@hamamatsu.et China: Hamamatsu Photonics (China) Co., Ltd.: B1201 Jiaming Center, No.27 Dongsanhuan Beilu, Chaoyang District, Beijing 100020, China, Telephone: (6)10-6586-6006, Fax: (8)10-6586-2866 E-mail: hpc@hamamatsu.co.