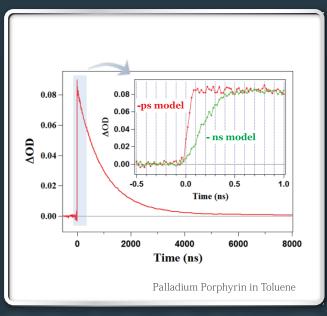
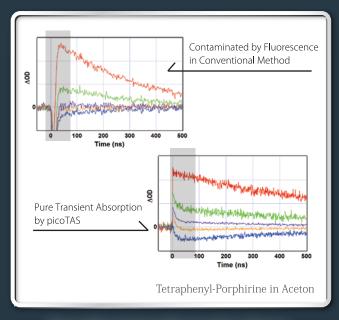


Picosecond Transient Absorption Spectroscopy System









Pure Transient Absorption Curve Free From Fluorescence!!





Features

Measures Wide Time Range from 100 ps ~ ms

Completely Bridges Gap Time Region of 1 ns ~ 20 ns

Covers Broadband Wavelength Range from 410 nm ~ 1600 nm

Removes Fluorescence Signal

Asynchronous Operation of Light Sources

Compact Footprint and Easy Operation

for Solution, Thin Film. Options Availabe for Avoiding Sample Damage

Applications

Observation of Transient Absorption Spectra of Excited Singlet/Triplet

Measurement of ISC Rate

Research of Electron Transfer, Charge Separation/Recombination Dynamics

Observation of Intermolecular Reaction, Excimer Generation etc.

Analysis of Dynamics of Photochromism, Organic EL, Photocatalyst etc.

Specifications

| Method | Randomly-Interleaved-Pulse-Train (RIPT) method |
|--------------------|---|
| Probe Light Source | 20 MHz picosecond supercontinuum laser |
| Pump Light Source | (-ns model) Subnanosecond microchip laser, pulse width < 350 ps, pulse energy > 20 μJ |
| | (-ps model) Picosecond mode-locked Nd:YAG laser, pulse width < 25 ps, pulse energy >100μJ |
| Oscilloscope | 200MHz, 12bit |
| Optical System | Pre- and post- monochromators, two shutters, polarizers |
| Detectors | Amplified photodiodes, bandwidth > 30 MHz |
| Functions | Automatic balancing of light Intensity with variable ND filters, |
| | Automatic wavelength scanning, Pseudo-logarithm sampling |

Unisoku has been developing this product in cooperation with Nihon University, Osaka University and Meijo University in the framework of the Japan Science and Technology Agency's "Development of Systems and Technologies for Advanced Measurement and Analysis (JST-SENTAN)" program.

