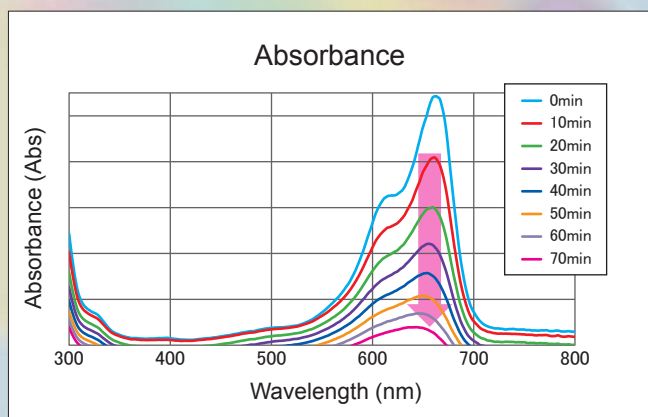
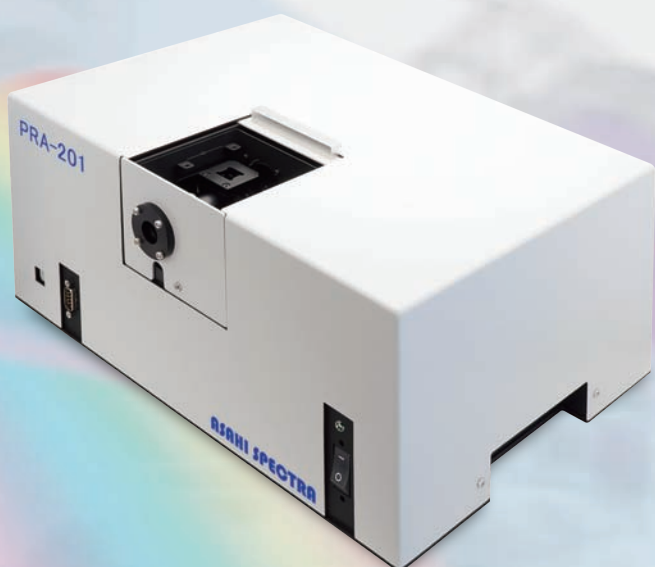


## Absorbance Measurement System

### PRA-201

Measuring absorbance easily  
with high reproducibility in photoreaction



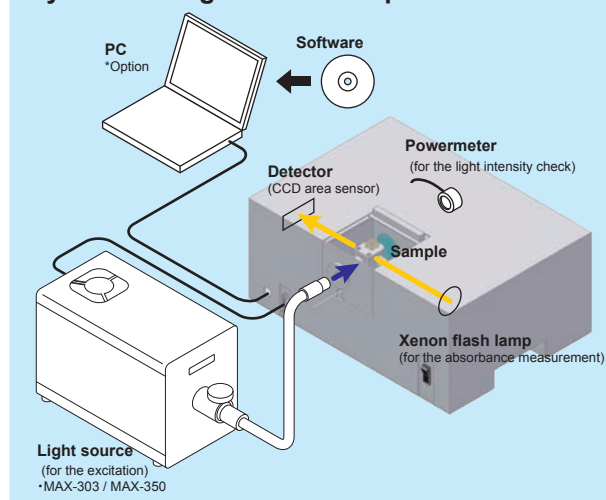
### Features

- Irradiating a sample and measuring absorbance in the same sample chamber
- Built-in powermeter for checking excitation light intensity
- CCD area sensor (200-800nm) for quick absorbance measurement
- Various measurements by software
- Magnetic stirrer \*Option
- Removable sample chamber

### Applications

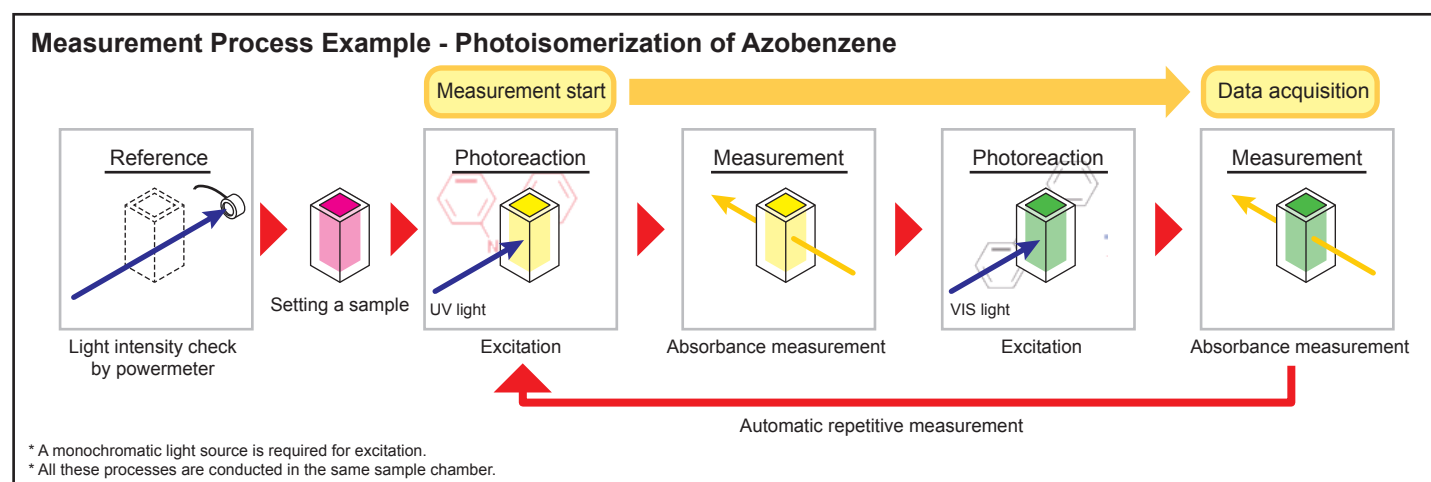
- Photoreaction material development
- Artificial photosynthesis
- Photochromism
- Photocatalyst
- Durability test
- Material evaluation

### System Configuration Example



# Product Outline

The PRA-201 is the absorbance measurement system which can excite a sample and measure the absorbance in the same chamber. Built-in powermeter checks an excitation light intensity and absorbance measurement is rapidly conducted with the embedded CCD area sensor. This system allows you to measure the absorbance with high reproducibility.



## Options

### Magnetic Stirrer

It enables to stir a sample during the measurement. It can be embedded into the PRA-201.

## Package Contents

- PRA-201 main unit
- AC cable (3m)
- USB cable (2m)
- Software
- Instruction manual
- \*PC is required for operation

## General Specifications

A	<p>Model: PRA-201 Light source: Xenon flash lamp Wavelength range: 200 - 800nm Optical configuration: Polychromator Wavelength accuracy: <math>\pm 1.0</math>nm Wavelength reproducibility: <math>\pm 0.5</math>nm Resolution: <math>3.4 \pm 0.6</math>nm (Calculated value at 546.1nm) *No smoothing process Photometric accuracy: <math>\pm 0.03</math>Abs(0 - 1.0Abs) *1 Photodetector: Back-Illuminated CCD sensor Exposure time: 10 - 500 msec Integration time: 1 - 60 times Corresponding cell size: External size 12.5(W)mm x 12.5(D) x 45(H)mm</p>
B	<p>Wavelength range: 260 - 800nm Measurement accuracy: Within <math>\pm 15\%</math> Input voltage: AC100V 50/60Hz Apparent power: Less than 30VA (AC100V/50Hz) Interface: USB2.0, 12Mbps (Full speed) Safety mechanism: Sample chamber door is open Recommended environment: Temperature 23.5 deg C (Operating range 10-35 deg C) *Avoid unstable environment Humidity 20-70% *Avoid condensation Dimensions: 380(W) x 260(D) x 170(H)mm Weight: Less than 8.5kg</p>

A Absorbance measurement section  
B Powermeter section

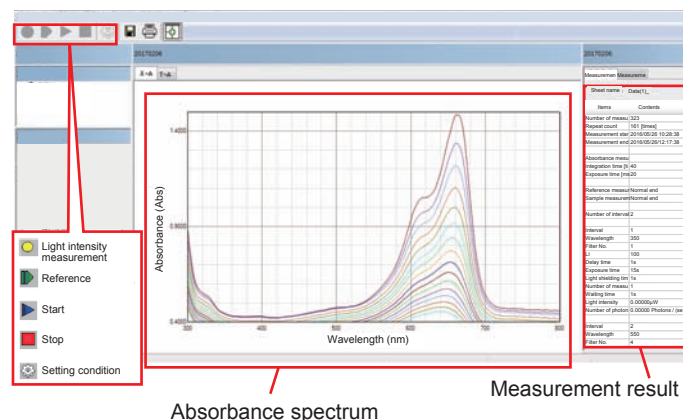
\*1 Only by our measurement condition

- \* An optical filter is mountable to block an excitation light in the chamber.
- \* PRA-201 can also be used as a spectrophotometer when not connecting with a light source.

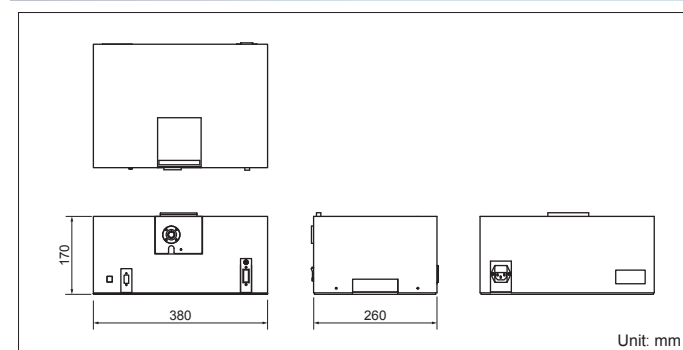
## Software

Various conditions are settable - the absorbance measurement after/with excitation, settings of exposure time, light intensity and so on.

A long term durability test - automatic repetitive measurement of irradiation and absorbance.



## Dimensions



\*Product specifications are subject to change without notice.

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