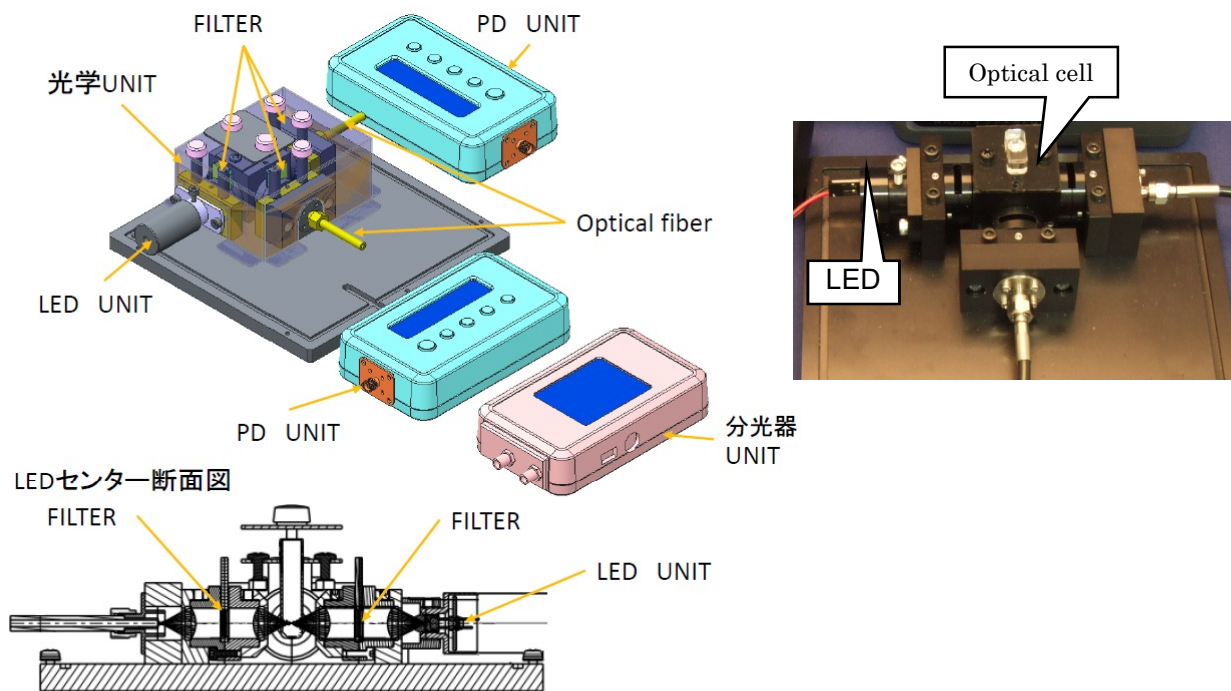


# Multipurpose optical engine

M 0 0 7

**Optimal for use optical measurement of a multi-purpose, such as the recovery rate, the fluorescence measurement and emission spectra in the immune diagnosis.**



## Overview

Basically, the optical lens system, and an LED light source, detector that is selected according to the purpose of PD and PMT and mini-spectrometers, various optical measurement can be performed.

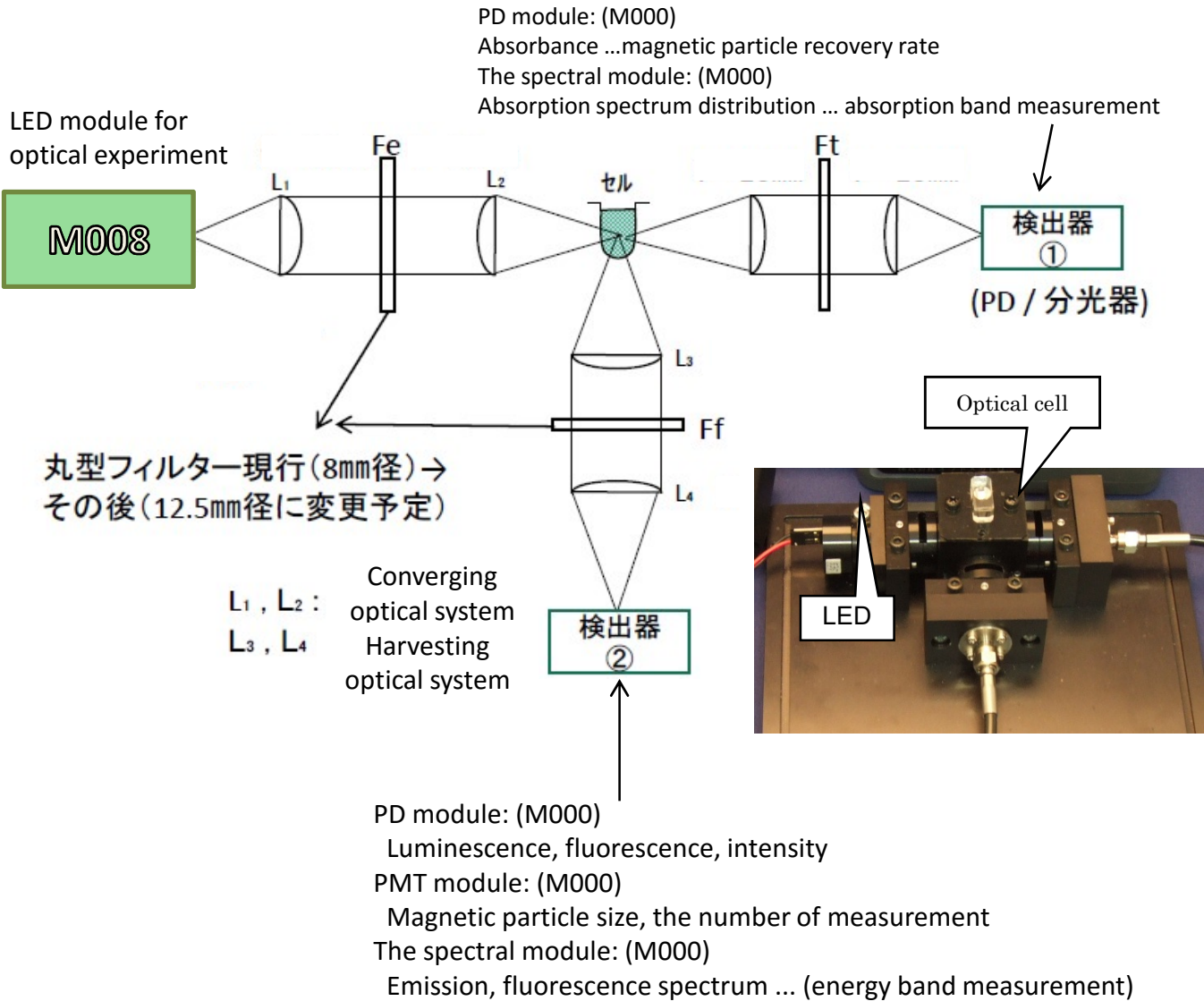
## Characteristic

- Using a multi-wavelength LED to the excitation light source, variable strength to the six levels.
- Excitation, fluorescence detection and optical filter can be selected.
- Design an optical system for the absorption and fluorescence detection as an engine part.
- Detector, can be selected PD · PMT module mini-spectrometer modules for different purposes.

## Application

- Spectroscopic analysis and inspection applications of the sample in the bio-medical applications.
- Reflection and transmission (absorption) and the fluorescence of the measurement applications of various materials.

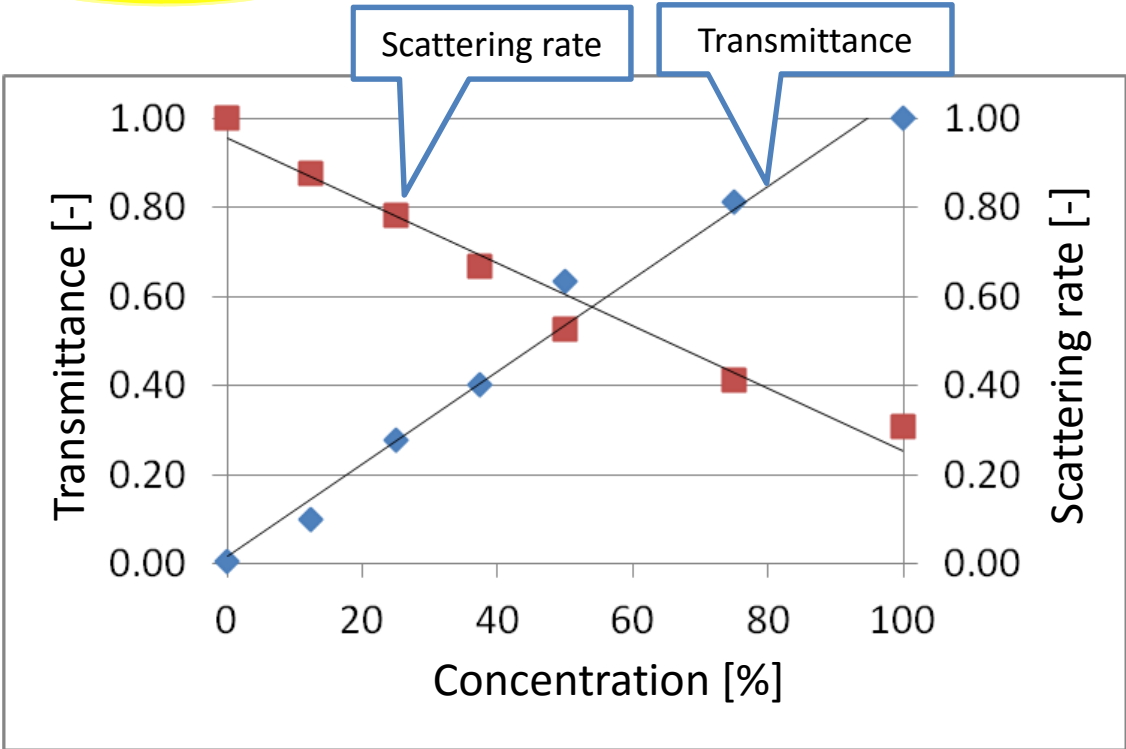
# Layout drawing



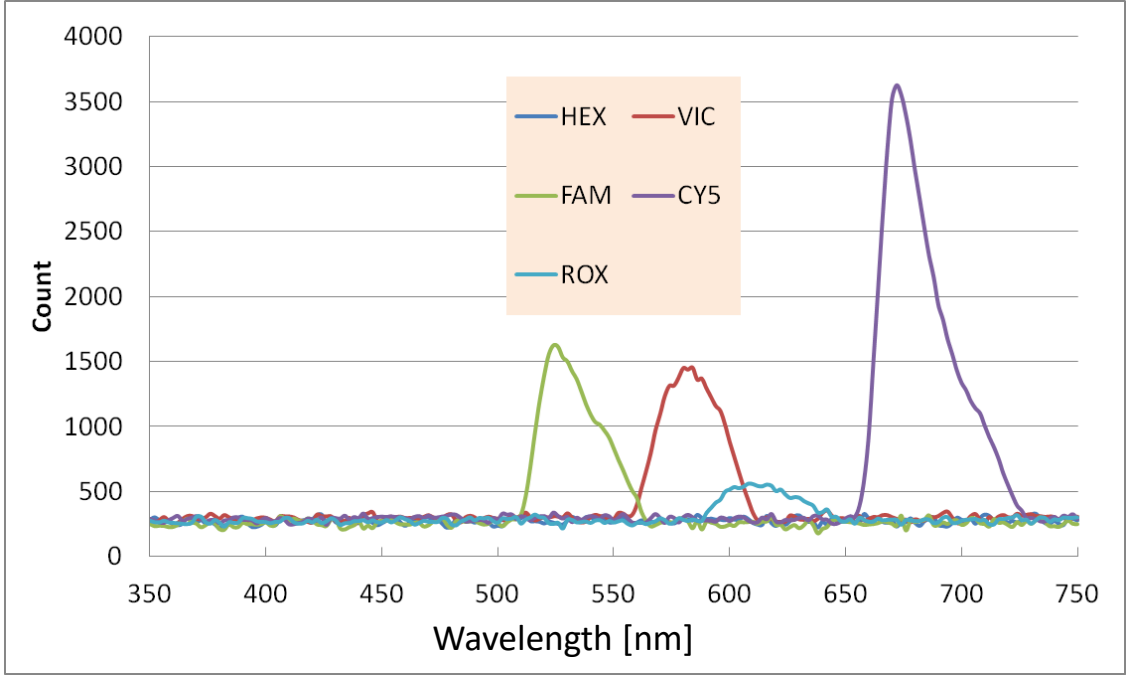
# Specification

Item	contents
Wavelength range	600 ~ 1100 [nm]
Mount	Flat field in-plane polychromator
Grating	Toroidal diffraction grating 20 × 25 (W × T) (effective area 18 × 23)
The number of grooves	480 lines / mm
Near infrared input connector	
Data output connector	
Data options	
Power supply	5 V DC 200 mA (Powered by USB or auxiliary power supply)
Assembly size	65 × 80 × 56
Optical options	Miniature lamp module, optical fiber with SMA (single line, two-branch fiber)

Measurement example



Measurement results of the recovery of the magnetic particles used in chemiluminescent immunization.



Fluorescence measurement data of the PCR reagents