

# Introduction of the Solid Sample Holder with a Transmission Hole (P/N : 250-0366)

## INTRODUCTION

When measuring the fluorescence in a solid sample or high concentration solution, a solid sample holder is used and the fluorescence from the sample surface is measured. In the solid sample holder with a transmission hole introduced this time, there is a transmission hole in the sample holder and this structure allows the transmitted light from the excitation light to escape. In the analyses of samples such as glass, films, and high concentration solutions which transmit the excitation light, this holder has the effect to reduce the scattered light and background caused by the scattered light.

### SAMPLE

Sample: Fluorescence thin film plate

### ACCESSORY

Solid sample holder with a transmission hole (P/N: 250-0366) (custom made)



## ANALYTICAL CONDITIONS

Instrument	: F-7000		
Excitation wavelength	: 465 nm	Slit on excitation side	: 5 nm
Response	: Automatic		
Fluorescence start wavelength	: 430 nm	Slit on fluorescence side	: 5 nm
Detector	: R928F		
Fluorescence end wavelength	: 750 nm	Scan speed	: 1200 nm/min
Photo multiplier Vol.:	250 V		

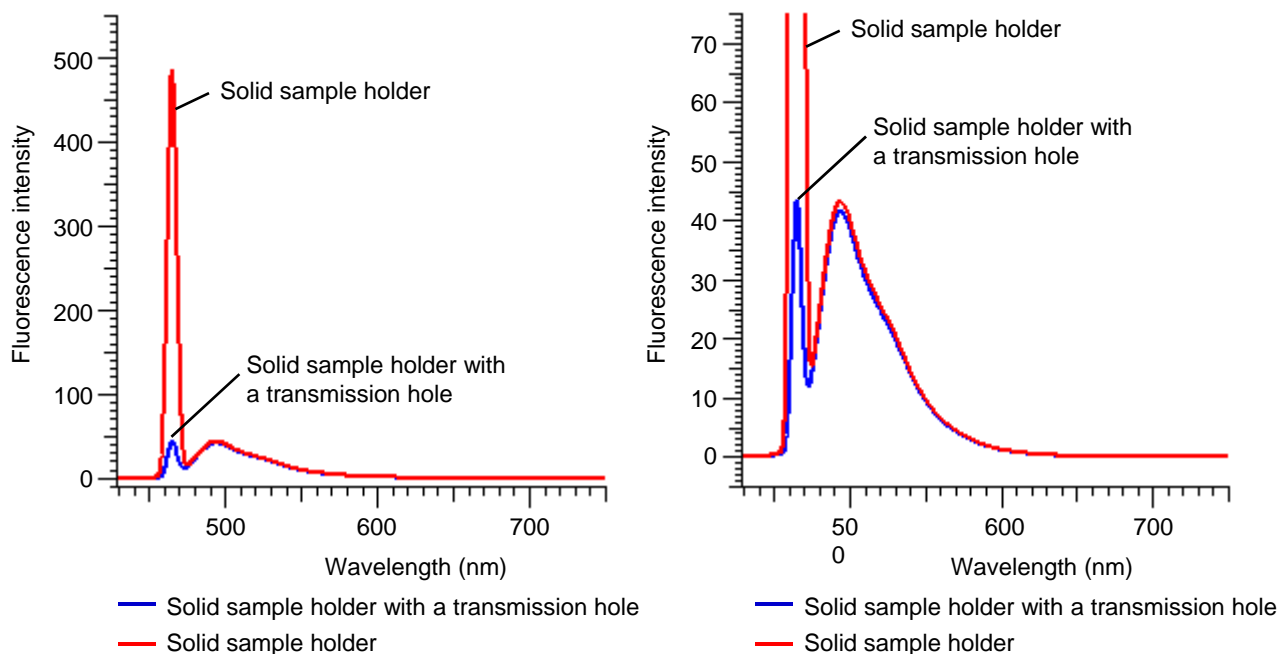


Figure 1 Comparison of fluorescence spectra for fluorescence thin film  
(Left) Whole spectra, (Right) Enlarged spectra

In the analyses of samples such as glass, films, and high concentration solutions which transmit the excitation light, this holder has the effect to reduce the scattered light and background caused by the scattered light.

### KEY WORDS

Material/Processing Material Related, Glass/Ceramic, Fluorescence Resin Board, Solar Cell, Display, Organic EL, Fluorescence Spectrum, Fluorescence Resin, FL, F-7000, F-2700

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Figure 2 Appearance of solid sample holder (Left) Standard product, (Right) With a transmission hole



Figure 3 Appearance from the excitation light entrance (Left) Standard product, (Right) With a transmission hole

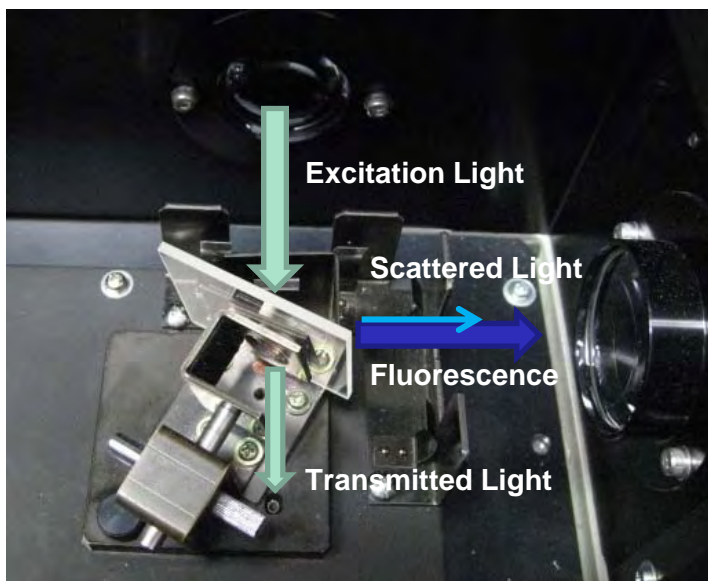


Figure 4 Appearance of sample chamber

The sample holder has a transmission hole and the structure allows the transmitted light of the excitation light to escape.

This holder has the effect to reduce the scattered light and background caused by the scattered light.

Table 1 Comparison of solid sample holders

	Solid sample holder (650-0161)	Solid sample holder with a transmission hole (250-0366)
Opaque flat plate	○	○
Transparent flat plate	△	○
Powder*1	○	○
Liquid*2	△	○

\*1 Use the powder cell comes with the holder.

\*2 Prepare the cell separately .

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Fluorophotometer (FL)

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