



# WAVE® Fluorescence Detector

The WAVE® Fluorescence Detector enables high sensitivity detection of fluorescently labeled nucleic acids separated with the WAVE® System or the WAVE® Oligo System. The WAVE Fluorescence Detector is controlled by Navigator™ Software and is fully compatible with the WAVE® Fragment Collector Model FCW 210 and the WAVE Oligo System.

Continuously variable excitation and emission wavelengths enable detection of virtually any fluorescent dye used to label nucleic acids. Greatly increased sensitivity is achieved through both the emission intensity of fluorescent dyes and discrimination between labeled and unlabeled nucleic acid species.



WAVE 3500 Fluorescence Detector



WAVE 4500 Fluorescence Detector

## Specifications

|                           |  |
|---------------------------|--|
| Photometric Principle     | Intensity of transmitted light from the excitation source is continuously monitored.<br>Detector output is a ratio of the fluorescent emission energy to the transmitted excitation energy.  |
| Light Source              | 150 W Xenon lamp<br>Excitation wavelength setting range: 200 - 850 nm<br>Emission wavelength setting: 250 - 900 nm   |
| Excitation and Emission   | Excitation side spectral bandwidth: 15 nm<br>Emission side spectral bandwidth: 15, 30 nm (variable)  |
| Recorder Output           | 10 mV full scale   |
| External Output Terminals | Analog output for processor: 1 V full scale<br>Analog output for recorder: 10 mV full scale  |
| Sensitivity               | 3500: Signal to noise ratio of 350 or higher with Raman spectrum of water at a wavelength of 350 nm with a time constant of 2.0 sec<br><br>4500: Signal to noise ratio of 700 or higher with Raman spectrum of water at a wavelength of 350 nm with a time constant of 2.0 sec |
| Flow Cell Capacity        | Standard cell 12 µL (irradiated capacity)  |
| Physical Measurements     | 3500 Dimensions: (26 cm W x 50 cm D x 23 cm H) (10" W x 20" D x 9" H)<br>Weight: 19 kg (42 lb)<br><br>4500 Dimensions: (34 cm W x 40 cm D x 30 cm H) (14" W x 16" D x 12" H)<br>Weight: 23 kg (51 lb)  |

## Products

### Product

Fluorescence Detector for WAVE 3500 Systems

Fluorescence Detector for WAVE 4500 Systems

### Catalog No.

FDX-99-0002

FDX-99-4500

[www.transgenomic.com](http://www.transgenomic.com)

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