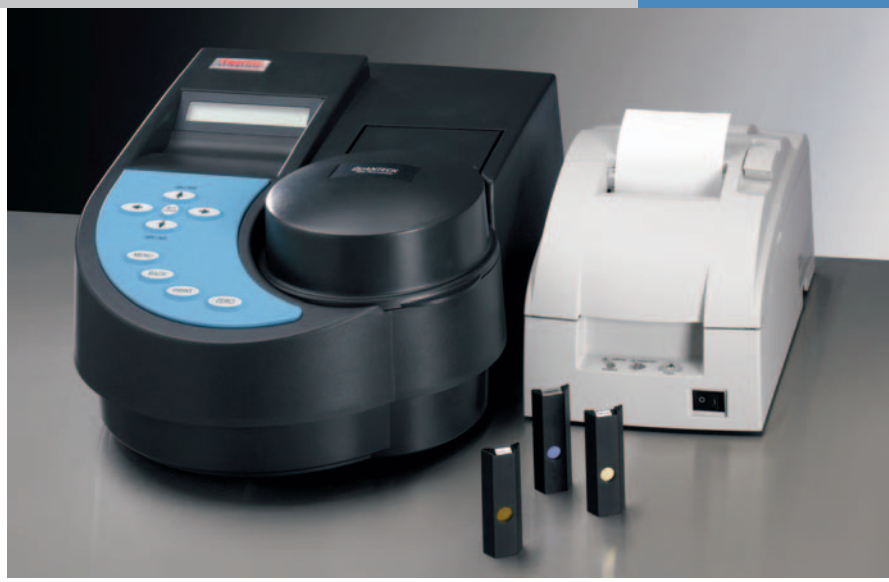
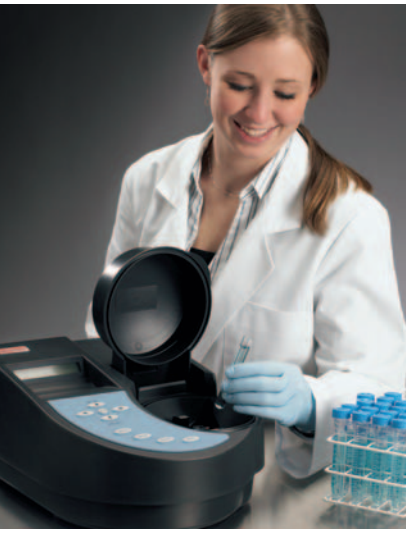
Whether it is the simple analysis of fluorescein or a more complex FRET biological assay, the Quantech™ digital filter fluorometer delivers accurate results with the sensitivity you demand. This compact fluorometer saves valuable bench space while offering excellent throughput for fluorescence assays.

Quantech Digital Filter Fluorometer

Accurate and sensitive fluorescence measurements





Quantitation Made Simple

The intuitive, built-in software of the Quantech digital filter fluorometer walks the user step-by-step through quantitative analysis experiments. Choose from a simple, single-point calibration standard method or a more complex multi-point calibration curve. Simple instructions on the screen guide the user through the entire measurement process including blanking, building a calibration curve, and analyzing samples. Tailor methods to your SOPs and store up to nine calibration curves each with up to 9 standards.

Need to change experiments? Simply create a new method, install the appropriate filters and start measuring samples.

The Automatic Gain adjustment feature eliminates time-consuming manual adjustment of the detector bias voltage (or gain). This automatically optimizes the linearity and working concentration range of the analysis. Automatic gain optimization allows the Quantech fluorometer to deliver the sensitivity and linearity you demand. Do not sacrifice sensitivity, measure fluorescein concentrations down to 20 ppt.

The simple design of the Quantech fluorometer uses optical filters to select excitation and emission light, making it easy to change from one analysis to the next.

An optional external printer provides a text and graphics printout of the calibration and sample data. An RS-232 port allows you to interface the fluorometer to a LIMS system for data storage.

Product Specifications

Sensitive Life Science Assays

Balanced UV excitation and a red sensitive PMT combine to provide a superior solution for the life science laboratory. Use the Quantech fluorometer to measure DNA and protein concentrations 1000-fold less than can be analyzed by absorption methods. For example, use the PicoGreen® assay to measure DNA samples as dilute as 25 pg/mL. Use one instrument for many different assays without scanning, picking peak values, and performing manual calculations. *Need more data?* Use the Quantech fluorometer to run FRET, quenching, or enzymatic assays with higher throughput.

An Instrument for Every Application

Four models of the Quantech digital filter fluorometer are available to meet the specific needs of your laboratory.

The **Basic Model** is a low-cost instrument designed for routine assays in the visible region of the spectrum. This model uses a quartz-halogen lamp providing excitation light from 340 to 750 nm. The PMT detector offers fluorescence and luminescence detection from 300 to 650 nm.

The **Wide Band Model** offers both flexibility and value for studies that require UV excitation and full-range emission detection. This model features both a quartz-halogen and a mercury lamp to create an excitation range spanning 254 to 750 nm. A red sensitive PMT measures emission from 190 to 870 nm. This model is well suited for laboratories performing assays in the UV or near-infrared.

Designed specifically for the life science lab, the **Life Science Model** features a quartz-halogen lamp and a mercury lamp that excites a coated phosphor for uniform excitation energy in the UV from 270 to 315 nm. This provides greater flexibility to life science and QA/QC researchers who analyze compounds that absorb in the UV region. The total excitation range spans 254 to 750 nm. The emission detection range of 190 - 870 nm is covered by a red sensitive PMT.

The **Chromatography Detector Model** can be used as a cost-effective solution for laboratories looking to add fluorescence detection to their separation techniques. This model features an analog output that can interface directly with many controllers and chromatography software packages. Designed specifically to cover the entire UV-Visible spectrum this model features both Quartz-Halogen and mercury lamps for an excitation range from 254 to 750 nm. The emission detection range of 185 - 870 nm is covered by a red sensitive PMT.

Increase Productivity

Using a filter fluorometer greatly enhances the productivity of your laboratory, allowing you to generate data quickly without scanning and calculations. The ergonomic design of the Quantech digital filter fluorometer helps facilitate multiple quick measurements. Additionally, there are no moving parts in the instrument, which translates to little or no maintenance and superior up-time.

GLP Made Simple

Routine diagnostics are performed automatically, each time the instrument is powered-on. The built-in software forces a 15-minute warm-up time ensuring measurements are made with stable excitation light and detector electronics. An optional external printer provides text and graphical printouts of calibration and sample data. An RS-232 interface allows you to export ASCII data directly into a LIMS system for storage and analysis.

Ordering Information

Description	Part Number
Quantech Base Model Filter Fluorometer, 100V	FM109514
Quantech Base Model Filter Fluorometer, 120V	FM109515
Quantech Base Model Filter Fluorometer, 230V	FM109510-33
Quantech Wide Band Filter Fluorometer, 100V	FM109534
Quantech Wide Band Filter Fluorometer, 120V	FM109535
Quantech Wide Band Filter Fluorometer, 230V	FM109530-33
Quantech Chromatography Detector Filter Fluorometer, 120V	FM109545
Quantech Chromatography Detector Filter Fluorometer, 230/240V	FM109540-33
Quantech Life Science/UV Filter Fluorometer, 120V	FM109555
Quantech External Printer, 120V	AY1095X1
Quantech External Printer, 240V	AY1137X1

For more information on filters and accessories for the Quantech digital filter fluorometer, visit www.thermo.com/qta