



Quantus™ Fluorometer Specifications

Size	22.7 × 11.5 × 4.5cm
Weight	400 grams
Linear Dynamic Range	Five (5) orders of magnitude, assay-dependent
Limit of Detection	1pg/ml double-stranded DNA with QuantiFluor® dsDNA Dye (50pg/ml using standard protocol) 3.9pg/ml RNA using QuantiFluor® RNA Dye
Detectors	Solid-state silicon sensor
Wavelengths	Excitation Filters: Red, 640nm shortpass; Blue, 495nm shortpass Emission Filters: Red, 660–720nm; Blue, 510–580nm
Calibration Type	Single-point (blank and standard)
Sample Tube	0.5ml PCR tubes (We recommend Axygen (Cat.# PCR-05-P))
Automatic Sleep Mode	After 1 hour of inactivity
Power Requirements	5V, 0.2A maximum
Computer Requirements (for optional Quantus™ Software)	Windows® 8, Windows® 7 (32 or 64 bit) .NET Framework 4.0 or later At least one USB port available
Warranty	1 year

Ordering Information

Quantus™ Fluorometer	Cat.# E6150
QuantiFluor® dsDNA System	Cat.# E2670
QuantiFluor® ssDNA System	Cat.# E3190
QuantiFluor® RNA System	Cat.# E3310

Products may be covered by pending or issued patents or may have certain limitations. Please visit our Web site for more information.

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Quantus
FLUOROMETER

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An affordable, sensitive single-tube fluorometer for fluorescence-based quantitation of DNA and RNA.
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Find Out How Much Nucleic Acid You *Really* Have.

Sensitivity

Use of the Quantus™ Fluorometer with QuantiFluor® Dyes provides sensitivity up to 40,000 times higher than that of absorbance-based quantitation using the NanoDrop® spectrophotometer, depending on the assay used.

Cost Savings

- Realize savings of up to 25% over similar instruments.
- No computer is required.
- No need for special accessories.

Better Results

Successful and accurate quantitation leads to higher success rates in downstream assays such as PCR, cloning, transfection and next-generation sequencing.

Convenience

Your new fluorometer might be as close as your nearest Helix™ on-site stocking cabinet.

Quantus™ Software

The Quantus™ Software is easy to install to allow data transfer from the Quantus™ Fluorometer to a computer. With the Quantus™ Software, you no longer have to record fluorescence measurements manually, and you can easily assign and change sample names using the computer keyboard.

Dual Channels

Measure fluorescence using two channels:

Blue fluorescence channel:

Excitation wavelengths up to 495nm (495nm shortpass), emission at 510–580nm

Red fluorescence channel:

Excitation wavelengths up to 640nm (640nm shortpass), emission at 660–720nm

Seamless Workflow

The Quantus™ Fluorometer is preprogrammed with protocols for Promega QuantiFluor® Dye Systems for single-stranded DNA, double-stranded DNA and RNA quantitation.

Flexibility

The Quantus™ Fluorometer is optimized for use with QuantiFluor® Dyes, but the fluorometer also is compatible with other fluorescent quantitation assays.

Specificity

Fluorescence-based nucleic acid quantitation methods are more specific than absorbance-based methods that rely on A_{260} or A_{280} measurement.

Ease of Use

Intuitive menus and a large LCD allow easy navigation.

The single-point calibration process saves time by eliminating the need to generate a standard curve for each set of unknown samples. The Quantus™ Fluorometer saves the calibration data.

Bench Space

The compact instrument is only 22.7 × 11.5 × 4.5cm.

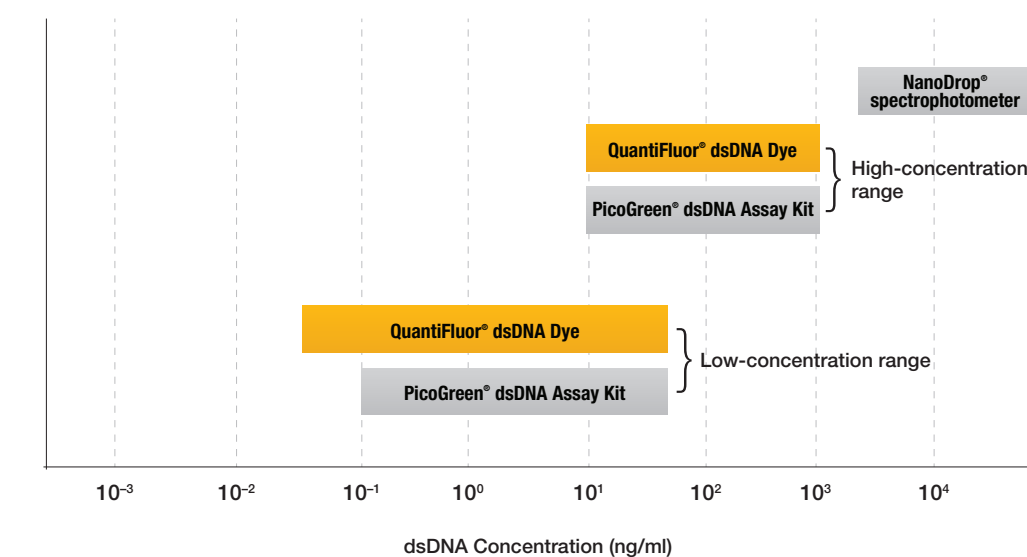


Quantitate with Confidence.

High Sensitivity

Fluorescence-based nucleic acid quantitation methods are more sensitive than absorbance-based methods. This allows you to complement your absorbance-based methods and quantify your target molecule over a wider range of concentrations.

The high sensitivity makes the Quantus™ Fluorometer perfect when working with sample types such as formalin-fixed paraffin-embedded (FFPE) tissue that contain low levels of nucleic acid. You can confidently proceed to your downstream detection assays, knowing that there is DNA or RNA present.



Superior Specificity

Fluorescence-based nucleic acid quantitation methods also are more specific than absorbance-based quantitation methods that rely on A_{260} or A_{280} measurement:

- Single-stranded DNA, double-stranded DNA and RNA absorb strongly at 260nm and cannot be distinguished by absorbance-based quantitation methods.
- Contaminants that absorb at 260nm, such as proteins or guanidine isothiocyanate, can cause an overestimation of nucleic acid concentrations.

