The World's Most Sensitive Microvolume Spectrophotometer

- Full Spectrum UV-Vis
- Integrated Fluorescence
- Powerful Sample QC
- Flexible Export, Wi-Fi, Email, Ethernet, USB

Patent US9442009

Recommended by Scientists Worldwide
DeNovix DS-11 Series: Confident Quantification

2017 and 2018 Reviewers’ Choice Life Science Product of the Year

The DS-11 Series Spectrophotometer/Fluorometer has been recognized as the top rated life science instrument by scientists worldwide. We deliver innovative, easy-to-use, highly precise instruments with customer service that is second-to-none. Our experienced team and technical advisory board includes scientists, engineers and founding members of NanoDrop Technologies, Inc. We stand behind our USA-made products with a two-year factory warranty on DS-11 Series Spectrophotometer / Fluorometers. Search for DeNovix on SelectScience.net to read hundreds of independent product reviews.

Microvolume Absorbance
- 0.5 to 1µL
- Full spectrum UV-Vis
- 0.75 – 37500 ng/µL dsDNA

Cuvette Absorbance
- Full spectrum UV-Vis
- Standard quartz and disposable cuvettes
- 0.04 – 750 ng/µL dsDNA

Flexible Export
- Email
- Network and label printers
- USB
- Network Drives

Color Options
- Blue
- White
- Gray
- Red

Powerful Data Handling
- Automatically store results
- Search, report and graph saved data

Sample Contamination Alerts
- SmartQC™ monitors samples and reports contamination

Multiple Models, Unmatched Sensitivity and Widest Dynamic Range

DeNovix offers a choice of models to meet your current and future research needs. Simply select the integrated instrument that includes your desired combination of microvolume absorbance, cuvette absorbance and fluorescence. The DS-11 Series delivers best-in-class detection limits and dynamic range saving analysis time and bench space with instruments that fit your applications.

<table>
<thead>
<tr>
<th>Model</th>
<th>Microvolume</th>
<th>Cuvette</th>
<th>Fluorescence</th>
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<tbody>
<tr>
<td>DS-11 FX+</td>
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<td>DS-C</td>
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<td>QFX</td>
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Optional USB Fluorometer Module
Integrated UV-Vis and Fluorescence Modes

Microvolume - Rapid 1uL UV-Vis Measurements

DeNovix Spectrophotometers quantify nucleic acids and protein using only 0.5 – 1.0 µL of sample. Just pipette and measure - no dilutions necessary. Instant on-screen results include concentration, a full spectrum output, purity ratios and SmartQC™ contamination alerts. DeNovix SmartPath® Technology ensures instruments are calibrated for life with no drift or service downtime. Bridge Testing® eliminates broken samples columns and ensures exceptional results, even for 1 µL protein samples.

Cuvette - Improved Detection Limits and Functionality

Use standard quartz or disposable cuvettes for up to 10 mm pathlength absorbance measurements (190-840 nm). Cuvette applications include nucleic acids, proteins, colorimetric assays, OD600 and custom standard curves. Systems include a cuvette block heater for Kinetics studies from 37-45°C.

Fluorometer – Sensitive, Specific Quantitation

The lower detection limit of dsDNA and other biomolecules may be improved 1000x when using fluorescent techniques. Specialized assay chemistries enable highly sensitive and molecule specific quantification, e.g. measuring only dsDNA in samples containing RNA and other contaminants. DeNovix fluorometers can be used with most commonly available fluorescence kits including DeNovix dsDNA Fluorescence Assays and Qubit® Assays.

Software by Life Scientists, for Life Scientists

Built-in EasyApps® make DeNovix instruments easy to learn and quick to use. Our software is ready to use right out of the box. No PC set-up or software installation is required.

- Nucleic Acid Quantification
  - dsDNA, RNA, ssDNA

- Protein and Peptide Quantification
  - BSA, IgG, custom proteins

- Colorimetric Assays
  - Bradford, BCA, Lowry, Pierce 660

- Kinetic Assays
  - Fully customizable, 37-45°C

- OD600 Microbial Cell Cultures
  - Optical density and cell/mL calculations

- Fluorescence Nucleic Acid Quantification
  - DeNovix dsDNA, DeNovix RNA, Qubit®, custom assays

- Fluorescence Protein Quantification
  - Commonly used kits and custom assays

- Basic Fluorometer
  - Pre-configured and user-defined fluorophores

- User Accounts
  - Password protect data, methods and settings

- Data App
  - Store and search millions of results

Scientist Recommended

"The machine is excellent. I strongly recommend it to others."  
Rating: 5.0  ★★★★★

"I love it, because of the accuracy and convenience."  
Rating: 5.0  ★★★★★

"Best machine in my lab."  
Rating: 5.0  ★★★★★

Try in Your Lab! Free Trial Program

"The machine is excellent. I strongly recommend it to others."  
Rating: 5.0  ★★★★★

"I love it, because of the accuracy and convenience."  
Rating: 5.0  ★★★★★

"Best machine in my lab."  
Rating: 5.0  ★★★★★
Extended Product Line

**QFX Fluorometer**
Affordable, ultra-sensitive four-channel fluorometer with software pre-installed for commercially popular assays. Includes full network connectivity.

**DS-C Spectrophotometer**
Cuvette-only instrument for UV-Vis applications (190-840 nm). Intuitive operation, full network connectivity and pre-installed EasyApps for rapid quantification.

**FX Fluorometer Module**
Add the USB connected FXModule to any DS-11 Series Spectrophotometer to enable all DeNovix Fluorometer apps. Features the same sensitivity and four-channel flexibility as the DS-11 FX+, DS-11 FX and QFX.

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**DeNovix Fluorometers and Assays Combine for Unmatched Sensitivity**
DeNovix fluorometers combined with DeNovix assays outperform equivalent Qubit® kits in both sensitivity and dynamic range. DeNovix offers a full range of dsDNA and RNA kits. Each assay is a simple mix-and-measure, 2-point standard protocol. The breakthrough DeNovix dsDNA Ultra High Sensitivity Assay enables rapid and specific quantification to 0.5 pg/µL dsDNA and the single DeNovix RNA Assay has 1.5 x the dynamic range of both Qubit® assays combined.

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**Spectrophotometer Microvolume Mode**
*(DS-11, DS-11+, DS-11 FX, DS-11 FX+)*
- Minimum Sample Size: 0.5 µL
- Pathlength: 0.5 mm (auto ranging to 0.020 mm)
- Light Source: Pulsed Xenon flash lamp
- Detector Type: 2048 element CCD
- Wavelength Range: 190 - 840 nm
- Wavelength Accuracy: 0.5 nm
- Absorbance Precision: 0.015 AU (1 cm) or 1%, whichever is greater
- Absorbance Accuracy: 1.5% at 0.75 AU at 260 nm
- Spectral Resolution: 1.50 FWHM @253.65 nm
- Absorbance Range: 0.015 – 750 AU (1 cm)
- Detection Limit: 0.04 mg/mL BSA; 0.75 ng/µL dsDNA
- Maximum Concentration: 1125 mg/mL BSA; 37500 ng/µL dsDNA
- Measurement Time: 2 seconds
- AutoRun Function: Yes
- Power Consumption: 10 W (max 30 W)
- Contaminant Detection: SmartQC™ Sample Guidance

**Spectrophotometer Cuvette Mode**
*(DS-11+, DS-11 FX+, DS-C)*
- Beam height: 8.5 mm
- Heating: 37 - 45°C +/- 0.5°C
- Pathlength: 10, 5, 2, 1, 0.5, 0.2, 0.125 mm
- Detection Limit: 0.002 mg/mL BSA (1cm)
  - 0.04 ng/µL dsDNA (1cm)
- Maximum Concentration: 75.0 ng/µL dsDNA (1cm)

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**Fluorometer Mode**
*(DS-11 FX, DS-11 FX+, QFX, FX Module)*
- LED Sources: UV (375 nm), Blue (470 nm), Green (525 nm), Red (635 nm)
- Excitation Filters: UV (361-389 nm), Blue (442-497 nm), Green (490-558 nm), Red (613-662 nm)
- Detectors: Photodiode, detection range 300-1000 nm
- Tube Type: 0.5 mL thin-wall PCR tubes
- Onboard Controller (No PC required)
- Operating System: Custom Android OS
- CPU: TI OMAP Dual Core ARM Processor
- Display: 1280 X 800 high definition color display
- Touch Screen: Projective capacitive
- Gesture Recognition: Multipoint touch, swipe, pinch
- Glove Compatibility: All common lab gloves
- Internal Storage: 32 GB flash memory
- Audio: Built-in speaker
- Connectivity: Wi-Fi, Ethernet, 3 USB ports
- Accessories: Printer; barcode reader, keyboard, mouse

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**General**
- Weight: 2 kg
- Footprint: 20 cm X 33 cm
- Operating Voltage: 12 VDC
- Approvals: UL/CSA, CE, FCC, Japan CAB
- Warranty: 2 Year Standard
- Colors: Arctic White, Brazilian Blue, Fire Red, Tungsten Silver
- Patented Design: US9442009. Apparatus and Method for Making Optical Measurements of Samples

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