



 The World's Most Sensitive Microvolume Spectrophotometer
 Full Spectrum UV-Vis
 Integrated Fluorescence
 Powerful Sample QC

> Flexible Export, Wi-Fi, Email, Ethernet, USB



Reviewers' Choice Life Science Product of the Year

Patent US9442009

DENOVIX Spectrophotometer

Recommended by Scientists Worldwide







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DS-11 FX +





# **DeNovix DS-11 Series: Confident Quantification**

## 2017 Reviewers' Choice Life Science Product of the Year

Since 2013 DeNovix has shipped thousands of instruments to customers worldwide. We deliver innovative, easy-to-use, highly precise instruments with customer service that is second-to-none. We are proud to receive more five star rating customer reviews than any other spectrophotometer. 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 an industry leading three-year factory warranty on all DS-11 Series instruments.



## 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 bestin-class detection limits and dynamic range saving analysis time and bench space with instruments that fit your applications.

	DS-11 FX+	DS-11 FX	DS-11 +	DS-11	DS-C	QFX
Microvolume						
Cuvette						
Fluorescence			0	0	0	

# **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<sup>TM</sup> 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.

#### Scientist Recommended

**66** The machine is excellent. I strongly recommend it to others. **77** 

Rating: 5.0 ★ ★ ★ ★

**6** I love it, because of the accuracy and convenience. **7** Rating: 5.0  $\star \star \star \star \star$ 

**6** Best machine in my lab.

Rating: 5.0  $\star \star \star \star \star$ 

SelectScience Independent Product Reviews

Try in Your Lab! Free Trial Program

# Software by Life Scientists, for Life Scientists

Built-in EasyApps<sup>®</sup> and our breakthrough Android<sup>™</sup> operating system 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, Qubit®, Quantus® and 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

# **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 fourchannel flexibility as the DS-11 FX+, DS-11 FX and QFX.



## **DeNovix Fluorometers and Assays Combine for Unmatched Sensitivity**

4000

3000

2000

1000

0

DeNovix fluorometers combined with DeNovix dsDNA assays outperform equivalent Qubit® kits in both sensitivity and dynamic range. DeNovix offers three ranges of sensitivity and kit sizes. 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.

#### Spectrophotometer Microvolume Mode (DS-11, DS-11+, DS-11 FX, DS-11 FX+) Minimum Sample Size 0.5 µL

Minimum Sample Size Pathlength Light Source Detector Type Wavelength Range Wavelength Accuracy Absorbance Precision

Absorbance Accuracy Spectral Resolution Absorbance Range Detection Limit Maximum Concentration Measurement Time AutoRun Function Power Consumption Contaminant Detection 0.5 mm (auto ranging to 0.020 mm) Pulsed Xenon flash lamp 2048 element CCD 190 - 840 nm 0.5 nm 0.002 AU (0.5 mm) or 1%, whichever is greater 1.5% at 0.75 AU at 260 nm 1.50 FWHM @253.65 nm 0.015 - 750A (1 cm) 0.04 mg/mL BSA; 0.75 ng/µL dsDNA 1125 mg/mL BSA; 37500 ng/µL dsDNA 2 seconds Yes 10 W (max 30 W) SmartQC<sup>™</sup> Sample Guidance

#### Spectrophotometer Cuvette Mode (DS-11+, DS-11 FX+, DS-C)

Beam height Heating Pathlength Detection Limit

Maximum Concentration

8.5 mm 37 - 45°C +/- 0.5°C 10, 5, 2, 1, 0.5, 0.2, 0.125 mm 0.002 mg/mL BSA (1cm) 0.04 ng/µL dsDNA (1cm) 75.0 ng/µL dsDNA (1cm)

Qubit® is the property of Thermo Fisher Scientific and its subsidiaries. Android is a trademark of Google, Inc. Quantus® is a registered trademark of Promega Corporation.

#### DeNovix Inc. Wilmington, DE 19810 USA Phone: +1.302.442.6911 www.denovix.com

#### **Broad Range Assay High Sensitivity Assay** Ultra High Sensitivity Assay 4000 ng/µL 300 pg/µL 250 ng/µL 260 300 195 225 2000 ng/µL 130 150 100 ng/µL 65 75 No Assay 0.1 na/ul 0.5 pa/uL 10 pg/µ 0 0 DeNovix Qubit DeNovix Qubit DeNovix Qubit

#### Fluorometer Mode (DS-11 FX, DS-11 FX+, QFX, FX Module) LED Sources UV (375 nm), Blue (470 nm).

Excitation Filters Emission Filters

Detectors

Tube Type

 Onboard Controller (No PC required)

 Operating System
 Cu

 CPU
 TI

 Display
 12

 Touch Screen
 Pr

 Gesture Recognition
 MI

 Glove Compatibility
 All

 Internal Storage
 32

 Audio
 Bu

 Connectivity
 W

 Accessories
 US

 mouse
 Storage

#### General

Weight Footprint Operating Voltage Approvals Manufacture Location Warranty Patented Design Photodiode, detection range 300-1000 nm 0.5 mL thin-wall PCR tubes ed) Custom Android OS TI OMAP Dual Core ARM Processor 1280 X 800 high definition color display Projective capacitive Multipoint touch, swipe, pinch All common lab gloves 32 GB flash memory (QFX - 8GB) Built-in speaker

Wi-Fi, Ethernet, 3 USB ports

Green (525 nm), Red (635 nm)

435-485 nm, 514-567 nm,

565–650 nm. 665-740 nm

UV (361-389 nm), Blue (442-497 nm),

Green (490-558 nm), Red (613-662 nm)

USB printer; barcode reader, keyboard,

2 kg 20 cm X 33 cm 12 VDC UL/CSA, CE, FCC, Japan CAB USA 3 Year Standard US9442009. Apparatus and Method for Making Optical Measurements of Samples

