

DeNovix®



Patents Pending

Spectrophotometer / Fluorometer Series

- 1µL and Cuvette Full Spectrum UV-Vis
- Multi-Channel Fluorescence
- Stand-Alone, Compact Design (no PC)
- Intuitive Android™ Interface & Built-in EasyApps®
- Flexible Export: E-mail, Network Drives & Printers, USB, Wi-Fi

Scientist Rated



SelectScience®

Independent Product Reviews

The DeNovix Product Family

Instruments available in any of the four colors shown!



Combined Absorbance and Fluorescence!

The DS-11 FX+: The Gold Standard for Dynamic Range

The DeNovix DS-11 FX+ Spectrophotometer / Fluorometer (patents pending) gives life scientists the most complete tool available for rapidly measuring nucleic acid and protein samples. Quantify the widest concentration range of any single instrument by using fluorescence or UV-Vis absorbance methods. Whether you are measuring 0.5 pg/μL dsDNA samples with the DeNovix Ultra High Sensitivity Assay, or 1125 mg/mL BSA using microvolume absorbance, DeNovix handles your application. DeNovix offers multiple model choices allowing labs to select the right instrument for current and future research. All instruments include a 3 year factory warranty.

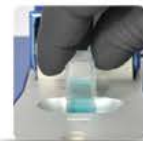


Measurement Modes



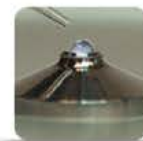
Fluorometer: 0.5 mL thin-walled PCR tube

Fluorometer



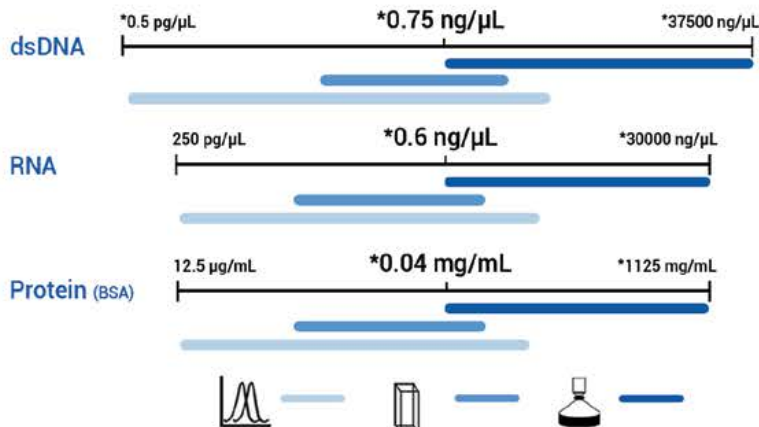
Cuvette: standard quartz and disposable cuvettes, full spectrum UV-Vis

Cuvette



Microvolume: 0.5 - 1.0 μL full spectrum UV-Vis

Microvolume



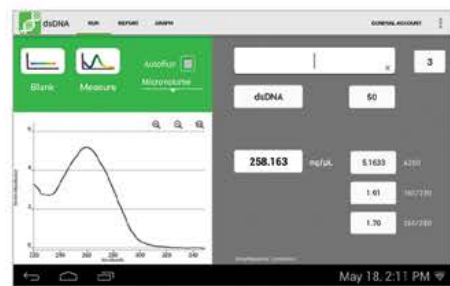
*Best in Class Limits of Detection!

The DS-11 FX+ delivers results you can trust. Our instruments feature world leading upper and lower detection limits including a microvolume lower detection limit of 0.75 ng/uL dsDNA (0.04 mg/mL BSA). The instrument also sets the standard for dsDNA quantification via fluorescence. Detect samples to 0.5 pg/uL dsDNA when using the DeNovix Fluorescence Assays and Fluorometer mode of the DS-11 FX or QFX.

Confident Quantification!

1 μ L Sample UV-Vis Analysis

DeNovix Spectrophotometers quantify proteins and nucleic acids via UV-Vis absorbance and require only 0.5 – 1.0 μ L of sample. Instantly view results on screen including full spectrum output, concentrations, purity ratios, etc. Suited for any absorbance applications within its 190-840 nm range. Just pipette and measure. **It's that simple!**



Microvolume Mode: SmartPath® Technology with BridgeTesting®

The DS-11 is always calibrated - no drift and no service downtime. SmartPath Technology controls the pathlength in real time ensuring accurate and precise measurements. BridgeTesting is our proprietary process to compress and monitor a sample during measurements to ensure the liquid column is intact. This guarantees even 1 μ L protein samples are measured with confidence.



Cuvette Mode: Lower UV-Vis Detection Limits & Added Functionality

Utilize standard quartz or disposable cuvettes in the DS-11+ or DS-11 FX+ models for up to 10 mm pathlength absorbance measurements. Cuvette mode is commonly used for quantification via Colorimetric assays, OD600 and more. Cuvette models also include a built-in cuvette heater and a Kinetics app for temperature controlled studies at 37-45°C.

Stand-Alone with Intuitive EasyApps

Built-in EasyApps and our breakthrough Android operating system make DeNovix instruments easy to learn and quick to use. Our compact instruments are ready right out of the box - no PC set-up or software installation is required. Make rapid absorbance and fluorescence measurements utilizing application-specific EasyApps. Easily build and save your own applications using powerful, yet simple, custom method apps. DeNovix systems also include account management, built-in email and free software updates for the life of your instrument.



Glove-compatible 7" HD touchscreen provides a responsive, fluid interface with pinch/zoom/swipe control

Connect to Your Results



Want data saved to your network drive? Printed in a table? Need to email a color jpg of overlaid UV-Vis spectra? How about scanning a barcode or printing a cryotube label? Customized field names for your LIMS system? No problem! DeNovix instruments give you all the Wi-Fi, Ethernet, USB and printer export options you need to get your data just where you want it and how you like it.

Free Trial Program

Find out why scientists love DeNovix instruments! Evaluate a system in your lab at no charge. Register at denovix.com for a free 7 day trial. DeNovix covers all shipping costs. Trial terms on website.

QFX Fluorometer

This QFX is perfect for NGS sample QC, single-cell dsDNA quantification and compatible with dozens of fluorescence based assays including all DeNovix dsDNA Fluorescence Assays. Rapidly and selectively quantify 1 – 20 μ L dsDNA samples over a range of 0.5 μ g/ μ L to 4,000 μ g/ μ L. The QFX includes all of the incredible network connectivity and functionality of our highly rated DS-11 & DS-11 FX instruments. The QFX offers better sensitivity and a broader detection range than the Qubit at a similar price. Free Trials available.



DeNovix dsDNA Fluorescence Assays

The DeNovix family of dsDNA assays includes three ranges of sensitivity. Each assay is a simple mix-and-measure, two-point standard kit and is available in evaluation or larger sizes. DeNovix assays outperform equivalent Qubit kits both in sensitivity and dynamic range. Our breakthrough dsDNA Ultra High Sensitivity assay allows detection to 0.5 μ g/ μ L. Assays may be purchased via webstore or any global distributor.

Specifications

Spectrophotometer Microvolume Mode (DS-11, DS-11+, DS-11 FX, DS-11 FX+)

Minimum Sample Size	0.5 μ L
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	0.002 AU (0.5 mm) or 1%, whichever is greater
Absorbance Accuracy	1.5% at 0.75 AU at 260nm
Spectral Resolution	1.50 FWHM @253.65 nm
Absorbance Range	0.015 – 750A (1 cm)
Detection Limit	0.04 mg/mL BSA; 0.75 ng/ μ L dsDNA
Maximum Concentration	1125 mg/mL BSA; 37500 ng/ μ L 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+)

Beam height	8.5 mm
Heating	37 - 45°C +/- 0.5°C
Pathlength	10, 5, 2, 1 mm
Detection Limit	0.002 mg/mL BSA (1cm) 0.04 ng/ μ L dsDNA (1cm)
Maximum Concentration	75.0 ng/ μ L dsDNA (1cm)

Fluorometer Mode (DS-11 FX, DS-11 FX+, QFX)

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)
Emission Filters	435-485 nm, 514-567 nm, 565 – 650 nm, 665-740 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	USB printer, barcode reader, keyboard, mouse

General

Weight	2 kg
Footprint	20 cm X 33 cm
Operating Voltage	12 VDC
Approvals	UL/CSA, CE, FCC, Japan CAB
Manufacture Location	USA
Warranty	3 Year Standard

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