

Absorbance & Fluorescence Combined!



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 to Network, USB, Wi-Fi, LIMS, Print



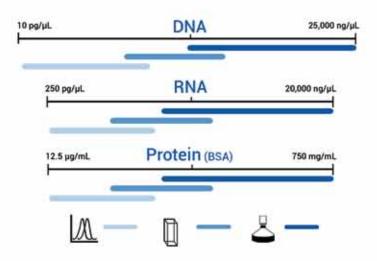
Instruments available in any of the four colors shown! (except FX Module)

Combined Absorbance and Fluorescence!

The DS-11 FX - A New Standard for Dynamic Range

The DeNovix DS-11 FX Spectrophotometer / Fluorometer (patent 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 10 pg/µL dsDNA samples or 750 mg/mL BSA, DeNovix handles your application. DeNovix offers multiple model choices allowing labs to select the right instrument for your current and future research.







Full Spectrum Analysis

DeNovix Spectrophotometers enable absorbance measurements of 0.5 to 1.0 µL samples. The 190 to 840 nm full spectrum capability makes it an ideal choice for UV-Vis applications such as protein and nucleic acid quantification. 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 1µL 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 models also include a built-in cuvette heater and a Kinetics app for temperature controlled studies at 37-45°C.

Fluorescence Freedom!

DeNovix fluorometers provide assay independence unlike any other. FX instruments are pre-configured for common commercially available quantification assays. Easily run assays such as Qubit[®] dsDNA BR, Qubit[®] dsDNA HS, or Quant-iTTM PicoGreen[®]. Assay standard curves, including simple two-point methods, are conveniently built in to fluorometer EasyApps[®]. All instruments also include a spare channel for future customization to new assays or fluorophores.

OFX Stand-Alone Fluorometer

The QFX is a feature-rich, highly-sensitive fluorometer. Each QFX includes DeNovix Android™ OS functionality such as Wi-Fi, Ethernet and USB connectivity as well as easy export to printers, LIMS, network drives, etc.

Channel	Excitation	Emission
Blue	470 nm	514-567 nm
Green	525 nm	565-650 nm
Red	635 nm	665-740 nm

FX Fluorometer Module - Instant Flexibility

Add fluorometer capability to any DS-11 or DS-11+ Spectrophotometer by utilizing a FX Fluorometer Module. Simply plug this USB accessory into your DeNovix instrument and immediately all fluorometer applications are at your fingertips!

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. De-Novix 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.

Specifications

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 0.030 mm) Light Source Pulsed Xenon flash lamp

2048 element CCD Detector Type Wavelength Range 190 - 840 nm

Wavelength Accuracy 1 nm

Absorbance Precision 0.002 AU (0.5 mm path) or 1%.

whichever is greater Absorbance Accuracy 2% at 0.75 AU at 260nm Spectral Resolution 1.50 FWHM @253.65 nm Absorbance Range 0.04 - 500 (1 cm equivalent) Detection limit 0.10 mg/mL BSA; 2.0 ng/µL dsDNA Maximum Concentration 750 mg/mL BSA; 25,000 ng/µL dsDNA

Measurement Time Less than 4 seconds

AutoRun Function Yes with electromagnetic arm

position relay

10 W (max 30 W) Power Consumption

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

Beam height 8.5 mm

37 - 45°C +/- 0.5°C Heating 10. 5. 2. 1 mm Pathlenath

0.10 ng/µL dsDNA (10mm pathlength) Detection Limit Maximum Concentration 75.0 ng/µL dsDNA (10mm pathlength)

Qubit®, Quant-it™ and PicoGreen® are the property of Thermo Fisher Scientific and its subsidiaries. Android is a trademark of Google, Inc.

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

Blue LED (~470 nm), Green LED Light Sources (~525 nm), Red LED (~635 nm)

Excitation Filters Blue: 442-497 nm, Green: 490-558, Red: 613-662 nm

Emission Filters Channel 1: 514-567 nm, Channel 2: 565-650 nm.

Channel 3: 665-740 nm Detectors Photodiode, detection range 300-1000 nm

Tube Type 0.5 mL thin-wall PCR (polypropylene) tubes

Onboard Controller (No PC required)

Custom Android™ OS Operating System 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 aloves Internal Storage 8GB flash memory Audio Built-in speaker

Connectivity Wi-Fi, Ethernet, 3 USB ports Accessories USB printer: Barcode reader

General Weight

2kg 20 cm X 33 cm Footprint

12 VDC Operating Voltage

Approvals UL/CSA, CE, FCC, Japan CAB

Manufacture Location

DeNovix