

DeNovix DS-C Cuvette Spectrophotometer

The DeNovix DS-C is a simple-to-use UV-Vis cuvette spectrophotometer with outstanding dynamic range, sensitivity and flexibility. Rapidly quantify biomolecules using any cuvette with an 8.5 mm z-height.

Rating: Not Rated Yet

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Manufacturer [DeNovix](#)

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Description

The **DeNovix DS-C** is a simple-to-use UV-Vis cuvette spectrophotometer with outstanding dynamic range, sensitivity and flexibility. Rapidly quantify biomolecules using any cuvette with an 8.5 mm z-height. The instrument includes preinstalled EasyApps for nucleic acids, proteins, colorimetrics assays, OD600, Kinetics, Custom Methods and more.

- **Intuitive EasyApps Software**
- **Wi-Fi, Ethernet, e-mail, Networks and Print**
- **32GB for Millions of Results and Methods**
- **Optional Fluorescence Upgrade**

Easy to learn. Fast to use.

The DS-C features the most powerful and intuitive software in its class. Pre-installed DeNovix EasyApps® and a breakthrough Android™ touchscreen interface ensure error-free operation and sample results under 2 seconds. Every instrument is ready right out of the box and backed by an industry-leading three-year warranty.

- Autosave millions of samples.
- Common quantification assays pre-configured
- Easily create custom assays

Fluorescence Freedom!

Add a DeNovix USB FX Module to enable powerful fluorescence quantification using the DS-C. DeNovix Fluorescence EasyApps are preloaded on the instrument and instantly become enabled when the USB model is connected. Use fluorescent assays for dsDNA, RNA and protein

quantification from DeNovix or several other manufacturers. Four fluorescent channels encompass a wide fluorophore excitation (361-662 nm) and emission (435-740 nm) range.

Unrivaled Connectivity and Storage.

Built-in Wi-Fi, Ethernet and USB allow easy export of the data you want in the format you need. 32 GB of memory allows storage of millions of results!

- Email a csv or color jpg of your results right from EasyApps
- Automatically save data to network drives or LIMS
- Flexible export to easily rename and save the fields you desire
- Print results or graphs to network and label printers
- Save to USB

DS-C Spectrophotometers are available in your choice of four DeNovix colors.

Specifications

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

| | |
|--|---|
| Beam height | 8.5 mm |
| Heating | 37-45 °C +/- 0.5 °C |
| Pathlength | 10, 5, 2, 1 mm |
| Absorbance Range | 0.0008-1.5 AU (1 cm) |
| Maximum Concentration | 75 ng/μl dsDNA (1 cm) |
| Detection Limit | 0.002 mg/ml BSA; 0.04 ng/μl dsDNA (1 cm) |
| Light Source | Pulsed Xenon flash lamp |
| Detector Type | 2048 element CCD |
| Wavelength Range | 190-840 nm |
| Wavelength Accuracy | 0.5 nm |
| Spectral Resolution | 1.5 nm (FWHM at Hg 253.7 nm) |
| Absorbance Precision | 0.015 AU (1 cm), or 1%, whichever is greater |
| Absorbance Accuracy | 1.5% at 0.75 AU at 260 nm |
| Absorbance Range | 0.015 – 1.5 (1 cm equivalent) |
| Fluorometer Mode (with FX Module) | |
| Light Sources | UV LED (~375 nm), Blue LED (~470 nm), Green LED (~525 nm), Red LED (~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 Real Time thin-wall PCR tube (polypropylene) |
| Onboard Controller (No PC required) | |
| Operating System | Custom Android™ OS |
| CPU | TI OMAP 1.5 GHz Dual Core ARM Processor |
| Display | 1280 X 800 high definition color display |
| User Input | Touch screen with swipe and pinch motion; glove compatible |
| Internal Storage | 32GB flash drive |
| Connectivity | 3 USB ports for printer, barcode reader and USB drive |
| Networking | Ethernet and Wi-Fi |
| General | |
| Colors | Arctic White, Brazilian Blue, Fire Red, Tungsten Silver |
| Measurement Time for Spectrophotometry | 2 seconds |
| Measurement Time for Fluorescence | 2 seconds |
| Footprint | 20 cm X 27 cm |
| Weight | 1.5 kg |
| Operating Voltage | 12 VDC |
| Operating Power Consumption | 10 W; max 30 W |
| Approvals | CE, UL/CSA, FCC and Japan CAB |
| Manufacture Location | USA |

EasyApps® Software

DeNovix EasyApps® Software

Pre-configured Apps ensure optimized workflows while simple to use Custom Method Apps enable researchers to quickly create and save methods for quantifying DNA, RNA and Protein. DeNovix's EasyApps® Software software provides a multitude of choices for reviewing and exporting results. Separate accounts can be set up and password protected. All data is automatically saved and searchable by account, sample name, sample type, application and date.

Application Highlights

Overview

Key Features

- Intuitive app Icons for quick recognition
- Familiar Android navigation touch gestures and functional icons
- Fluid pinch, zoom glove compatible touch interface
- AutoRun option for streamlined operation
- Optimized screens for reports and graph overlays
- Password protected accounts for project and data management
- Absorbance represented as 1 cm equivalent for all apps- no confusion between applications
- Sample name field is key-focused for easy barcode reader use
- All data is automatically archived and easily exported in tab-delimited format

Nucleic Acids - Absorbance and Fluorescence

dsDNA

RNA

ssDNA

Microarray

Key Features: Absorbance

- Separate preconfigured apps for optimized workflow
- Preconfigured and user defined factors for ssDNA ensures appropriate concentration calculations
- High absorbance capability: up to 37,500 ng/ul for dsDNA
- 260/280 and 260/230 ratios displayed
- 11 Preconfigured dyes and fluorophores for Microarray
- Option to add an unlimited number of new dyes for quick recall in Microarray

New Fluoro Protein

New RNA

New ssDNA

Key Features: Fluorescence

- Preconfigured commonly used Qubit®, Quant-it™ and Qunatifluor® assays
- Easy configuration of additional assays
- Single or multi-replicate standard curve options
- User control of line fit, trend line analysis, subtraction of blank
- User control of assay and reported sample concentration units
- Save and re-use curves and lists of standard concentrations

Protein - Absorbance and Fluorescence

Protein A280

Peptide 205/215

Labeled Proteins

Colorimetrics

Key Features: Absorbance

- Preconfigured and user defined protein types for A280 and Labeled Proteins
- Preconfigured Peptide app for easy peptide analysis at A205/215
- Quick addition of new user defined protein types for improved workflow
- Ultra short pathlength enables high absorbance capability: up to 750 mg/ml BSA
- 11 Preconfigured dyes and fluorophores for Labeled Proteins
- Option to add an unlimited number of new dyes for quick recall in Labeled Proteins
- BCA, Bradford, Lowry and 660 nm colorimetric assays optimized for ease of use
- Quick save and recall of standard curves available

New Fluoro Protein

Key Features: Fluorescence

- Preconfigured commonly used Qubit® and Quant-it® assays
- Easy configuration of additional assays
- Single or multi-replicate standard curve options
- User control of line fit, trend line analysis, subtraction of blank
- User control of assay and reported sample concentration units
- Save and re-use curves and lists of standard concentrations

UV-Vis & Custom User Methods - Absorbance

UV-Vis

Standard Curve Methods

Formula Methods

Key Features

- Simple but powerful apps enable measurement of more than just nucleic acids and proteins
- Full spectrum analysis (190 to 840 nm)
- Broad absorbance range for highly concentrated samples (up to 500 A, 1 cm equivalent)
- Add new user-defined standard curve methods
- Add custom formulas to eliminate downstream calculations
- Add new kinetics methods (DS-11+ model)

Basic Fluorometer & Custom Methods - Fluorescence

New Basic Fluorometer

Key Features

- Add new standard curve based fluorescent assays (nucleic assay, protein or other)
- Basic Fluorometer app returns RFU values for many preconfigured and user-defined dyes/fluorophores

Kinetics & OD 600

Kinetics

OD 600

Key Features

- DS-11+ model enables cuvette based kinetics studies
- Full spectrum analysis (190 to 840 nm), with dual or single wavelength monitoring
- Built-in heater with temperature control between 37° to 45° C.
- Dual graphs enable absorbance vs time or absorbance vs wavelength plots
- All kinetic data saved
- Save new kinetics methods (DS-11+ model)
- Estimated cell number calculator included in OD 600 app

Accounts & Data

Individual Accounts

Data Management

Key Features

- Password protected accounts available
- All data automatically saved & searchable by account, sample name & type, application and date
- Configurable reports easily accommodate LIMS and user preferred formats
- Print microfuge tube labels using a DeNovix supported printer
- Print reports to a networked printer or DeNovix supported label printer
- Export full data sets via email; save to a network folder or USB thumb drive.

Reviews

There are yet no reviews for this product.