

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

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| Minimum Sample Size | 0.5 μ L |
| Pathlength | 0.5 mm (auto ranging to 0.02 mm) |
| 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 – 750 (1 cm equivalent) |
| Detection limit | 0.04 mg/ml BSA; 0.75 ng/ μ l dsDNA |
| Maximum Concentration | 1125 mg/ml BSA; 37500 ng/ μ l dsDNA |
| Lower Sample Surface Material of Construction | 303 stainless steel and sapphire window |
| Upper Sample Surface Material of Construction | 303 stainless steel and quartz fiber |

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

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| Beam height | 8.5 mm |
| Heating | 37-45 $^{\circ}$ C +/- 0.5 $^{\circ}$ C |
| Pathlength | 10, 5, 2, 1, 0.5, 0.2, 0.125 mm |
| Absorbance Range | 0.0008-1.5 AU (1 cm) |
| Detection Limit | 0.002 mg/ml BSA; 0.04 ng/ μ l dsDNA (1 cm) |
| Maximum Concentration | 75 ng/ μ l dsDNA (1 cm) |

Fluorometer Mode (DS-11 FX, DS-11 FX+ and FX Module)

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| 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)

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| Operating System | Custom Linux [®] OS |
| CPU | Quad-core Cortex-A72 |
| Display | 7" 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

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| 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 33 cm |
| Weight | 2 kg |
| Operating Voltage | 12 VDC |
| Operating Power Consumption | 10 W; max 30 W |
| Approvals | CE, UL/CSA, FCC and Japan CAB |
| Manufacture Location | USA |