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FLx800™ Multi-Detection Microplate Reader



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● Specifications

|                       |                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Detection method      | Fluorescence, Luminescence:<br>Low Noise Photomultiplier tube                                                                                                                             |
| Read method           | Endpoint, kinetic and area scanning under computer control                                                                                                                                |
| Microplate types      | 6- to 384-well plates, PCR plates (FLx800TBP)                                                                                                                                             |
| Reading speed         | Kinetic, full 96-well plate in <35 seconds (depends on settings)                                                                                                                          |
| Wavelength range      | Excitation: 300-650 nm<br>Emission: 300-700 nm<br>(300-800 nm with optional PMT)                                                                                                          |
| Wavelength selection  | Deep blocking interference filters                                                                                                                                                        |
| Filter wheel capacity | Excitation: 4 positions, Emission: 4 positions                                                                                                                                            |
| Filters supplied      | 2 excitation and 2 emission filters                                                                                                                                                       |
| Bandpass              | Variable, dependent on filter                                                                                                                                                             |
| Dynamic range         | 0-99.999 RFUs<br>0-99.999 RLUs                                                                                                                                                            |
| Sensitivity           | Sodium fluorescein 2.5 pg/ml SF (1.3 fmol/well) typical*<br>Luciferase 0.1 pg/well typical<br>ATP 100 amol/well limit of detection<br>(*Black plate, top measurement, 3mm diameter probe) |
| Standard probes       | 3.0 mm top<br>5.0 mm bottom                                                                                                                                                               |
| Light source          | Tungsten Halogen, 1000 hours lifetime                                                                                                                                                     |

|                     |                                                                                                                                                                                                      |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Temperature control | 4°C above ambient to 50°C (I models)                                                                                                                                                                 |
| Shaking             | Linear shaking (I models)                                                                                                                                                                            |
| Reagent dispensers  | 1 syringe pump                                                                                                                                                                                       |
| Dispense volume     | 5-1000 µl in 1 µl increments                                                                                                                                                                         |
| Onboard software    | 55 user-programmable protocols                                                                                                                                                                       |
| PC Software         | KCjunior, KC4 (optional)                                                                                                                                                                             |
| Power               | 100-240 V <sub>AC</sub> 50/60 Hz                                                                                                                                                                     |
| Dimensions          | 15" W x 16" D x 9" H<br>(38.1 x 40.64 x 22.89 cm)                                                                                                                                                    |
| Weight              | 30 lbs (13.6 kg)                                                                                                                                                                                     |
| Regulatory          | For in-vitro diagnostic use (Except in the European Union).<br>All BioTek microplate instrumentation is CE and ETL marked. For details on approvals and standards compliance, please contact BioTek. |

Specifications subject to change.

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