

EXPERT PLUS microplate reader



EXPERT PLUS

The new concept in rapid microplate reading

The Expert Plus microplate reader is a stand alone instrument that combines a large graphical display with easy to use on-board software, digital light control for optimum performance and multi channel optics for fast analysis times. Qualitative, quantitative and kinetics capabilities are available with a range of curve-fit methods including linear, parabolic, cubic, point to point, spline and 4-parameter. Up to 120 methods can be stored in memory, as can the results from up to 100 plates and these results are downloadable to an external PC using the Control Plus software which is supplied as standard. The Expert Plus is the ideal choice for analysts who have a number of 96 well plate methods to be run and the results can be easily printed out to an external printer via the standard parallel port. It has both exciting styling and design that place it at the forefront of its class.

FEATURES

Powerful on-board software Quantitative, qualitative and kinetic data reduction and any combination thereof. Assay formulas can include validation, outlier elimination, transformation, factors and floating cut-off.

Control Plus™ Windows-based Software Allows methods to be set up and stored on a PC prior to download to the Expert Plus. In addition, results can be transferred from the Expert Plus to the PC for storage, manipulation and printing.

8 channel optical system with Digital light control system Provides fast 5 second read time per plate and optimum performance.

Automatic self-test and calibration before each microplate run Ensures measurement quality – every time.

Front loading, self-centring plate carrier Facilitates easy access and robotics capability.

Optional QC-plate and QC-software System validation made easy.

TECHNICAL DATA

Measurement range	0.000 to 4.000 OD
Wavelength range	400 - 800 nm (Expert Plus) / 340 - 800 nm (Expert Plus UV)
Interference filters	405, 450, 492 and 620 nm (Expert Plus) 340, 405, 492 and 620 nm (Expert Plus UV) supplied as standard up to six filters possible
Accuracy	+/- 1.0% and +/- 0.005 OD up to 2.5 OD)
Reproducibility	+/- 0.5% and +/- 0.005 OD up to 2.5 OD
Plate format	96-well, flat, round and V-bottom
Reading speed	5 seconds for a complete plate
Light source	50 Watt Tungsten Halogen lamp
Measurement system	8-channel optical system with self-calibration and Digital light control
Shaking	4 modes – user selectable
Data output	RS-232 bidirectional and Centronics parallel, USB optional
Display	Graphical LCD display 240 x 128 dots with backlight
Keyboard	23-key membrane keypad with tactile feedback
Software	On-board software provides Qualitative, Quantitative and Kinetics capabilities. For added flexibility please choose one of our PC software packages
Method and result storage	120 methods and V120 standard curves can be stored in memory together with the results of 100 plates
Dimensions and weight	27 x 43 x 24 cm / 10.6" x 16.9" x 9.4" (W x D x H), 12 kg / 22 lbs
Power requirements	90 to 250 V, 50/60 Hz, 80 VA

ORDER INFORMATION

EXPERT PLUS
Part number: G020150

EXPERT PLUS UV
Part number: G020151

QC PLATE AND WINQC SOFTWARE
Part number: G010160

As part of our policy of continuous product development we reserve the right to alter specifications without notice. The products are CE compliant.



Filters are easily changed



Large choice of calculation methods



Directly connectable to a printer



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