



MP-3020 MICROPLATE SPECTROPHOTOMETER

DETAILS

MP-3020 is a compact microplate spectrophotometer that combines modern touchscreen technology with excellent performance for UV-Vis measurements in 6- to 384-well microplates, cuvettes and in micro-volume samples with the available plate. No need to worry about limited onboard software, since **MP-3020** comes with full function software, ready to read and analyze data at the touch of a few buttons! For maximum versatility, **MP-3020** can read from 200 nm to 999 nm in 1 nm increments for single, dual and multi-wavelength measurements in end point and kinetic read methods.

Spectral scanning and well area scanning add to the system's wide-ranging application capabilities. (carrying out DNA/RNA purity & concentration check) For cell-based and other temperature sensitive assays, **MP-3020's** 4-Zone incubation to 65 °C reaches an even broader range of applications. A variety of data output options are available, including WiFi, Bluetooth and a USB flash drive, making **MP-3020** a fully contained microplate spectrophotometer workstation.

FEATURES

- » UV-Vis wavelength selection in 2 µL micro-volume samples , 6- to 384-well plates and standard cuvettes
- » Large color touchscreen with available WiFi, Bluetooth and flash drive connectivity
- » Full data analysis onboard, with Windows® 8 OS
- » Advanced incubator design to 65 °C and new anti-condensation mode
- » Advanced shaking profiles including linear, orbital and double orbital

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Analytical Technologies Limited

An ISO 9001 Certified Company

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SPECIFICATION

Detection modes	UV Absorbance
Read methods	Endpoint, kinetic, spectral scanning, well area scanning
Microplate types	6- to 384-well plates
Temperature control	4-Zone™ incubation to 65 °C with Condensation Control + 0.2 °C at 37 °C
Shaking	Linear, orbital, double orbital
Software	Analytical Technologies Data Analysis Software and under Gen5 control, Secure for 21 CFR Part 11 compliance (option)
Wavelength selection:	Monochromator
Wavelength range:	200 - 999 nm, selectable in 1 nm increments
Light source:	Xenon flash lamp
Dynamic range:	0.0 - 4.0 OD
Automation:	BioStack and 3rd party automation BioSpa 8 Automated Incubator
Detector:	Photodiode

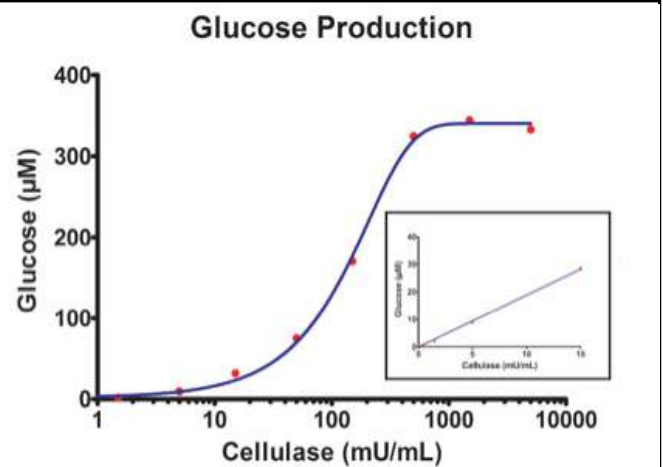
PERFORMANCE

Performance noted below is for 96-well microplates and cuvette measurements.	
Monochromator	Band Width: 2.9 nm wavelength repeatability: ± 0.2 nm wavelength accuracy: ± 2 nm
Resolution:	0.001 OD (onboard software) 0.0001 OD (under Gen5 control)
Path length correction:	under Gen5 Control
OD linearity:	<1% from 0 to 2.5 OD
OD accuracy:	<1% from 0 to 2.5 OD
OD repeatability:	<0.5% at 2.0 OD
Stray light:	0.03% at 230 nm
Read speed:	96 wells sweep read: 8 seconds 384 wells sweep read: 14 seconds

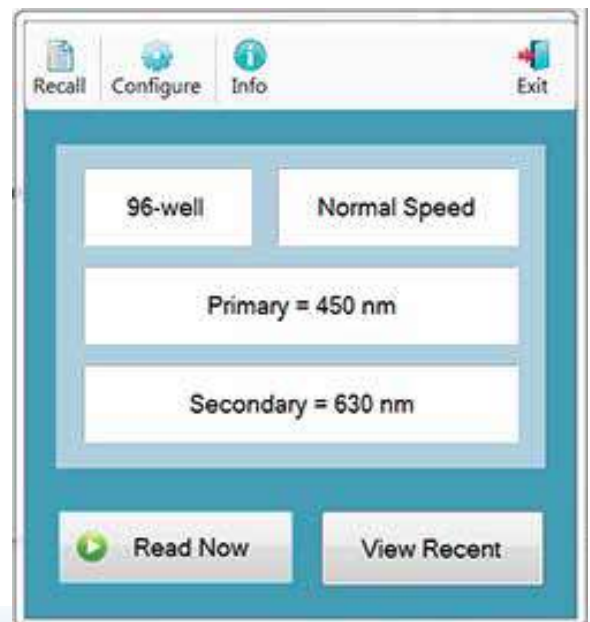
PHYSICAL CHARACTERISTICS

Connectivity:	1 USB for external PC control 1 USB for peripheral devices
Power:	100 - 240 Volts AC 50/60 Hz
Dimensions:	Touchscreen configuration: 15.5" D x 12.5" W x 13" H (39.3 x 32 x 33 cm) Non-touchscreen configuration: 15.5" D x 12.5" W x 8" H (39.3 x 32 x 20.3 cm)
Weight:	Touchscreen configuration: 25 lbs (11.3 kg) Non-touchscreen configuration: 20 lbs (9.1 kg)

Applications



- » Nucleic acid and protein direct quantification
- » Micro-volume assays
- » Biofuel research applications
- » Cytotoxicity assay
- » Cell proliferation assay
- » End point or kinetic ELISA
- » Spectral scanning



Regulatory compliances



Corporate Social Responsibility

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Analytical Foundation

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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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