

### Microplate spectrophotometer, Epoch and Take 3



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- Robust, low maintenance microplate spectrophotometer
- 200nm to 999nm wavelength range
- 6 to 384 microplate reading capability
- Controlled with the Gen5 data analysis software

#### Take3™ multi-volume plate

- Microspots: up to sixteen 2µL samples can be run at one time for direct nucleic acid and protein quantification
- BioCells: BioCell™ locations available for quick 10mm pathlength measurements
- Cuvette: a standard stoppered cuvette can be measured
- Compatible readers: Epoch™, PowerWave™ XS2 and all Synergy™ readers equipped with absorbance detection
- Sample volume: minimum 2µL in microspot locations
- Optical pathlength: 0.5mm
- Detection limit: 2ng/µL (dsDNA) typical
- Gen5™ software interface: comes with Take3 utility module, compatible with Gen5 and Gen5 Secure
- Predefined applications: dsDNA, ssDNA, RNA quantification; protein quantification

Epoch's monochromator based UV-Vis wavelength selection offers expanded options for the life science laboratory without using interference filters. Epoch is compatible with the innovative Take3™ multi-volume plate to quickly measure up to sixteen 2µL samples.



#### Technical Specification - General

Read modes	Absorbance: endpoint, kinetic, spectral scan, well area scan
Microplate configuration	6, 12, 24, 48, 96, and 384 well microplates with standard 128mm x 86mm footprint and maximum height of 0.8" Take3 multi-volume plate compatible
Software	Comes with Gen5. Compatible with all editions of Gen5
Wavelength range, nm	200 to 999, selectable in 1 increments
Bandpass [typical]	5nm
Range	0 to 4.000
Resolution	0.0001
Wavelength accuracy, nm	±2
Wavelength repeatability, nm	±0.2
Accuracy	0 to 2 OD: ±1% ±0.010 OD 2 to 2.5 OD: ±3% ±0.010 OD
Linearity	0 to 2 OD: ±1% ±0.010 OD 2 to 2.5 OD: ±3% ±0.010 OD
Repeatability	0 to 2 OD: ±1% ±0.005 OD 2 to 2.5 OD: ±3% ±0.005 OD
Read speed	Normal: 49s (96 well), 169s (384 well) Rapid: 38s (96 well), 131s (384 well) Sweep: 15s (96 well), 31s (384 well)

Catalogue No	Alt. No	Description
<b>PJB-530-350A</b>	EPOCH	Epoch
<b>PJB-535-451Q</b>	Take3	Multi-volume plate