800™ TS

Absorbance Microplate Reader

GENERAL	
Detection modes	Absorbance
Read methods	End point, kinetic and well area scanning (under computer control)
Microplate types	6-, 12-, 24-, 48-, 96-well microplates 384-well microplates, (NB configurations) Maximum plate height 0.9” (22.86 mm)
Other labware	Terasaki trays (NB configurations)
Temperature control	Ambient +6 °C to 50 °C (800TSI) Ambient +8 °C to 50 °C (800TSUVI)
Shaking	Linear (except NB configurations)
User interface	4.3” color LCD touchscreen display
Onboard software	• Up to 40 user-programmable protocols • Quick menu • Create, edit or run protocols • Save results to USB thumb drive
Software	Gen5™ Software for external computer control and data analysis (optional)
Connectivity	(1) USB Type B for computer control (2) USB Type A for thumb drive and printer
ABSORBANCE	
Light source	Tungsten halogen lamp
Wavelength selection	Filters
Wavelength range	400 – 750 nm 340 – 750 nm (UV configurations)
Bandwidth	10 nm
Filter capacity/supplied	5 positions/4 (5 with UV configurations)
Dynamic range	0 to 4.0 OD (normal & rapid read modes) 0 to 3.0 OD (sweep mode)
Resolution	0.001 OD (standalone mode) 0.0001 OD (under Gen5 control)

BioTek Instruments, Inc. | P.O. Box 998, Highland Park, Winooski, Vermont 05404-0998 USA
Phone: 888-451-5171 | Outside the USA: 802-655-4740 | Fax: 802-655-7941 | Email: customercare@biotek.com | www.biotek.com

OD accuracy	**800TS/800TSI** Normal: ±1.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm Rapid: ±2.0% ±0.020 OD from 0.0 to 2.0 OD @ 405 nm Sweep: ±1.0% ±0.020 OD from 0.0 to 1.0 OD @ 405 nm **800TSUV & 800TSUVI** *Above 400 nm, accuracy specs are the same as 800TS/800TSI* Normal (340-399 nm): ±2.0% ±0.010 OD from 0.0 to 2.0 OD @ 340nm Rapid (340-399 nm): ±2.5% ±0.020 OD from 0.0 to 2.0 OD @ 340nm **80TSNB** Normal: ±1.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm Rapid: ±2.0% ±0.020 OD from 0.0 to 2.0 OD @ 405 nm
OD linearity	**800TS/800TSI** Normal: ±1.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm, ±3.0% ±0.010 OD from 2.0 OD to 3.0 OD @ 450 nm Rapid: ±2.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm Sweep: ±1.0% ±0.010 OD from 0.0 to 1.0 OD @ 405 nm **800TSUV/800TSUVI** *Above 400 nm, linearity specs are the same as 800TS/800TSI* Normal (340-399 nm): ±2.5% ±0.010 OD from 0.0 to 2.0 OD @ 340nm Rapid (340-399 nm): ±2.5% ±0.010 OD from 0.0 to 2.0 OD @ 340nm **800TSNB** Normal: ±1.0% ±0.010 OD from 0.0 to 2.0 OD at 405 nm ±3.0% ±0.010 OD from 2.0 OD to 3.0 OD @ 450 nm Rapid: ±2.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm
OD repeatability	**800TS/800TSI** Normal: ±0.5% ±0.005 OD from 0.0 to 2.0 OD @ 405 nm Rapid: ±1.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm Sweep: ±2.0% ±0.010 OD from 0.0 to 1.0 OD @ 405 nm **800TSUV/800TSUVI** *Above 400 nm, repeatability specs are the same as 800TS/800TSI* Normal (340-399 nm): ±1.5% ±0.005 OD from 0.0 to 2.0 OD @ 340nm Rapid (340-399 nm): ±2.0% ±0.020 OD from 0.0 to 2.0 OD @ 340nm **800TSNB** *For 96-well plates, repeatability specs are the same as 800TS/800TSI* Normal (384-well): ±1.5% ±0.010 OD from 0.0 to 2.0 OD @ 405nm Rapid (384-well): ±2.0% ±0.010 OD from 0.0 to 2.0 OD @ 405 nm
Read speed	96 wells, single wavelength Normal read mode: 30 seconds Rapid read mode: 18 seconds Sweep read mode: 11 seconds 96 wells, dual wavelength Normal read mode: 63 seconds

PHYSICAL CHARACTERISTICS	
Connectivity	1 USB for external PC control 1 USB for optional printer 1 USB for peripheral devices
Power	100 – 240 VAC, 50/60 Hz
Dimensions	16.5"D x 15"W x 7"H (41.9 x 38.1 x 17.8 cm)
Weight	18.5 lbs (8 kg)
REGULATORY	
Regulatory	In Vitro Diagnostic models are available. CE and TUV marked, RoHS compliant.

Specifications are subject to change. Performance specification values represent the average observed factory test values.