

SPECIFICATIONS.

Infinite® F50 Absorbance Reader.



The tables below list the specifications[#] for the Infinite F50 absorbance reader.

General Specifications.

Parameters	Characteristics
Detection mode	Absorbance
Light source	LED, self-calibrating
Photodetector	Silicon photodiodes
Plate type	96-well microplates (including strip-well microplates)
Measurement modes	Endpoint, kinetic and multi-label measurements
Measurement channels	8
Reference channel	1

Measurement Specifications.

Parameters	Characteristics
Measurement time: single wavelength dual wavelength	< 15 seconds < 20 seconds
Wavelength range: Standard	400 - 750 nm
Measurement range: 400 - 750 nm	0 - 4.000 OD
Resolution	0.0001 OD
Accuracy: 450, 492 nm 0.000 - 2.000 OD 2.000 - 3.000 OD	$\leq (1.0 \% + 0.010 \text{ OD})^*$ $\leq (1.5 \% + 0.010 \text{ OD})^*$
Precision: 450, 492 nm 0.000 - 2.000 OD 2.000 - 3.000 OD	$\leq (0.5 \% + 0.005 \text{ OD})^*$ $\leq (1.0 \% + 0.005 \text{ OD})^*$
Linearity: 450, 492 nm 0.000 - 2.000 OD 2.000 - 3.000 OD	$\leq 1 \%$ $\leq 1.5 \%$
Wavelength selection:	Narrow bandwidth interference filters. Up to 8 filters can be mounted in a filter wheel. Standard filters: 405, 450, 492, 620 nm**
Filter wavelength accuracy	Central wavelength ± 2 nm
Filter bandwidth: At 50 % transmission	10 ± 2 nm

Additional Features and Software.

Parameters	Characteristics
Computer interface	USB
Shaking	Linear shaking in four different modes
Software for reader control and data analysis	a) Magellan Standard b) Magellan Tracker (21 CFR Part 11 functionality for GxP labs)

Dimensions and operating conditions.

Parameters	Characteristics
Main power input External power supply	Basic instrument with AC adapter: 100-240 V AC, 50/60 Hz, max. 1.2 A Basic instrument without AC adapter: 24 V DC
Outside dimensions	Infinite F50: Width: 34.7 cm (13.66 inch) Depth: 18.9 cm (7.44 inch) Height: 13.4 cm (5.28 inch) Infinite F50 Robotic: Width: 35.7 cm (14.07 inch) Depth: 19.1 cm (7.51 inch) Height: 13.4 cm (5.28 inch)
Weight	2.6 kg (power supply included)
Operating conditions	Ambient Temperature: Operation: 15 °C to 35 °C (59 °F to 95 °F) Storage: -30 °C to 60 °C (-22 °F to 140 °F) Relative humidity: 20 % to 80 % non-condensing at operation temperature

Instrument Accessories.

- The list below contains the available optional accessories for the Infinite F50, which can be ordered additionally:
- Supplementary filters
 - Filter assembly tool (#30017313)
 - MultiCheck™ plate for Infinite F50 family (#30055582)
 - Option QC Kit (contains two special absorbance filters to upgrade the Infinite F50 for the Tecan Pipetting QC Kit used as a verification tool for robotic integration) (#30071463)

Available Product Versions.

Infinite F50 (GP) #30087508
Infinite F50 Plus (IVDR) #30183570
Infinite F50 Robotic #30087509

Specifications are valid for all instruments of the Infinite F50 family: Infinite F50, Infinite F50 Plus and Infinite F50 Robotic.
* Better than or equal to x % of measurement value plus corresponding OD value.
** Additional filters available separately.
*** Typical performance values (TPV) represent the average observed factory tested values.

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