



Infinite® F50 family – Reliable. Validated. Compact.

Innovative 8-channel absorbance readers with advanced LED technology

Infinite F50 – Innovative design with top price-performance ratio

The Infinite F50 is Tecan's next-generation, state-of-the-art 8-channel absorbance microplate reader that provides not only accurate, reproducible and fast measurements but sets a new standard in compact, innovative design. With its easy-to-use control and data analysis software, the Infinite F50 is ideal for a variety of ELISA applications.

Reliable and validated hardware and software in an outstandingly compact footprint

Fast results	<ul style="list-style-type: none">• Advanced optics with eight measurement channels for fast reading• Optimized light intensity via reference channel for enhanced performance
Maintenance-free	The Infinite F50 uses the latest LED technology to replace the traditional halogen lamp light source, providing longer maintenance-free life, lower energy consumption and compact dimensions. LEDs typically last 10 times longer than halogen lamps at the same efficiency, making inconvenient lamp changes and waiting for the lamp to warm up a thing of the past.
Proven reliability	Reliability of the Infinite F50 is proven by Tecan's unique quality tests resulting in a Mean Time to First Failure (MTTF) value of >100,000 plates, typically corresponding to several years of successful operation.
Warranty	The 24-month warranty period for the Infinite F50 underlines the quality of Tecan's detection instruments that is demonstrated by the installed base of more than 20,000 Tecan microplate readers worldwide.
Validated	Both the Infinite F50 absorbance reader and Magellan™ software have been designed, tested, verified and validated according to ISO 13485:2003 quality system standards. Together with the optional Magellan Tracker software, the system meets the 98/79/EC IVD directive for in vitro diagnostic products and is prepared to meet the FDA regulation 21 CFR part 11, ensuring technical compliance and integrity of generated data.
Compact	The innovative, state-of-the-art engineering enables unprecedented compactness, reflected in a footprint of about four microplates. This reader can easily fit into any laboratory, saving valuable bench space.

Comprehensive and powerful data analysis

The Infinite F50 comes complete with Magellan – Tecan's established reader control and data analysis software – allowing quick and easy measurements, comprehensive data reduction and excellent data presentation on cost-effective netbooks, as well as on laptops or standard PCs.

Powerful

- full qualitative and quantitative EIA analysis
- all major curve fittings (eg. point-to-point, linear and non-linear regression, polynomial, logit-log, four- and five-parameter fits)
- comprehensive QC function (such as plate-to-plate QC for trending of standards and controls displayed in a Levy-Jennings graph)
- a range of data import and export options (Excel®, ASCII, ASTM)
- a range of kinetic data reduction features (such as mean and max slope, enzyme kinetics, etc.)**

Easy access

- wizard-based user interface guides you through the software step-by-step
- available in nine languages (Chinese, English, French, German, Italian, Japanese, Portuguese, Russian and Spanish)
- example files for qualitative and quantitative ELISA assays and learning tutorials

Compliant

Magellan Tracker software provides electronic signatures, records and multilevel user management to offer full functionality to meet FDA's Title 21 CFR Part 11 and 98/79/EC IVD-D, allowing diagnostic applications in clinical laboratories and other regulated environments. The Infinite F50 is also compliant with the Restriction of Hazardous Substances (RoHS) and the Waste Electrical and Electronic Equipment (WEEE) directives.

Essential quality control with the MultiCheck™ package

The MultiCheck package for the Infinite F50 offers a fast and easy way to verify and document the performance of your microplate reader. It provides a system check appropriate for installation qualification (IQ) and operational qualification (OQ), which is essential to ensure reliable, valid measurement data and reader functionality over time.

Convenient LIS option

The hand-held barcode scanner (LIS option) is a time-saving and convenient option that allows reading of barcodes from sample IDs or plate IDs with automatic transfer into Magellan software and data export to the appropriate Laboratory Information System (LIS).



Netbook not included

m magellan
data analysis software

qc tools
ensure your results

Infinite F50 features and benefits

- 8-channel ELISA reader for fast measurements
- Additional reference channel for optimized light intensity
- 2 year warranty & tested reliability of $\geq 100,000$ plates
- endpoint, kinetic and multi-label measurements for a variety of applications
- shaking with variable time & speed
- Magellan software for powerful and validated data analysis
- learning tutorials, example files and a selection of nine languages for getting started easily
- 98/79/EC IVD-D and FDA 21 CFR part 11 for regulated environments

Infinite F50 Robotic

Discover how smoothly the Infinite F50 Robotic ELISA plate reader, powered by the Magellan data analysis software, will integrate into robotic platforms, such as the Tecan Freedom EVO®.

Compact

- Ultra-compact design of the Infinite F50 Robotic saves valuable deck-space
- Plate loading position in portrait mode helps to streamline the workflow
- Allows smooth plate transfer between modules such as reader & incubator, etc.
- Eliminates need for a re-gripping station to change plate orientation

Easy

- Removable section of instrument cover allows easy teaching of the positions for plate loading & unloading with a robotic manipulator arm
- Innovative teaching tool helps in cases when there is not enough space to remove the cover, e.g. when instruments are stacked in a shelf

Fast

- Advanced optics with eight measurement channels for fast reading
- Optimized light intensity via reference channel for enhanced performance

Innovative

- 10 times longer maintenance-free lifetime of the innovative LED lamp
- Makes lamp changes a thing of the past & helps to cut maintenance costs

Reliable

- The Infinite F50 Robotic reader has been designed for maximum reliability
- Integrated sensors monitor critical parameters such as plate loading, etc.
- 2 year warranty & a tested reliability of > 100.000 plates come as standard



Green innovations

Take advantage of the green innovations included in the Infinite F50 and Infinite F50 Robotic ELISA plate readers and learn more how you can save money & go green:

Green



- 10 times longer maintenance-free lifetime of the innovative LED lamp
- 50% lower power consumption compared to typical ELISA readers
- Makes lamp changes a thing of the past & helps to cut maintenance costs
- No electricity wasted for lamp warm-up – just switch on & start reading

RoHS

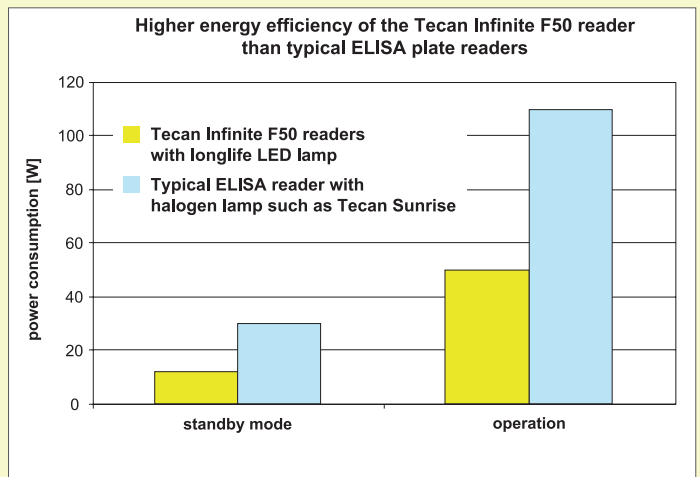
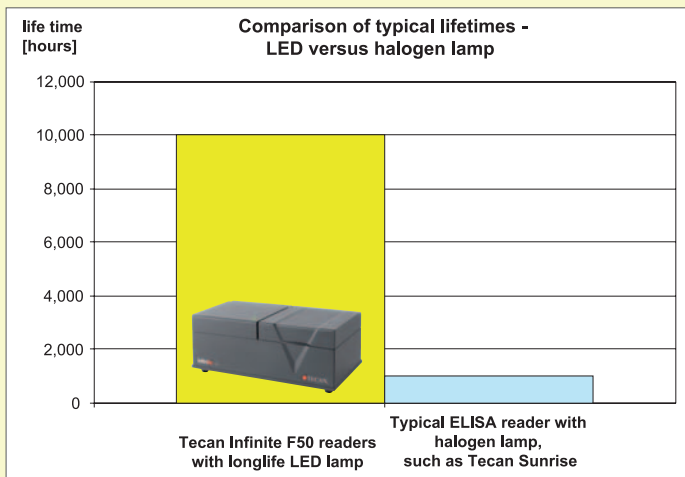


- Innovative design helps with the restriction of hazardous substances, such as lead, mercury, cadmium, hexavalent chromium and others
- Prepared to meet the China-RoHS directive, as well as the strict European directive 2011/65/EU, which will be mandatory in 2016

Efficiency



- Advanced design & high quality components used for the Infinite F50 family make it possible to combine excellent performance with low weight
- This increases transport efficiency & helps to lower CO₂ emissions compared to typical ELISA readers such as the Tecan Sunrise



Infinite F50 & Infinite F50 Robotic – Typical performance values

General specifications	
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 range	0 – 4 OD
Resolution	0.0001 OD
Wavelength range	400 – 750 nm
Wavelength selection	up to 8 filters on wheel standard filters 405, 450, 492 and 620 nm***
Accuracy at 450 / 492 nm	
0.000 – 2.000 OD	≤ (0.5 % + 0.010 OD) typical
2.000 – 3.000 OD	≤ (1 % + 0.010 OD) typical
Precision / Reproducibility at 450 / 492 nm	
0.000 – 2.000 OD	≤ (0.5 % + 0.005 OD)
2.000 – 3.000 OD	≤ (1.0 % + 0.005 OD)
Linearity	
0.000 – 2.000 OD	≤ 1.0 %
2.000 – 3.000 OD	≤ 1.5 %
Shaking	linear shaking in 4 different modes
Computer interface	USB 1.1 / 2.0
Dimensions Infinite F50 / Infinite F50 Robotic	height: 13.4 cm (5.28 in) / 13.4 cm (5.28 in) width: 34.7 cm (13.66 in) / 35.7 cm (14.07 in) depth: 18.9 cm (7.44 in) / 19.1 cm (7.51 in)
Weight	< 3 kg
Power supply	External power supply: 100 – 240 V AC, 50 / 60 Hz, max. 1.2 A (auto sensing)

Tecan – Who we are

Tecan is a leading global provider of laboratory instruments and solutions in biopharmaceuticals, forensics, clinical diagnostics, academic centers and life science industries, and specializes in the development and production of automation solutions, detection instruments such as microplate readers, microarray-related products and washers.

Founded in Switzerland in 1980, Tecan has manufacturing, research and development sites in both North America and Europe, and maintains a sales and service network in 52 countries. To date, Tecan has distributed approximately 20,000 microplate readers worldwide and is committed to continuous technological improvements and compliance to global quality standards.

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*together with Magellan Tracker software

**For further details please refer to Magellan software features (www.tecan.com/magellan).

***additional filters available separately

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