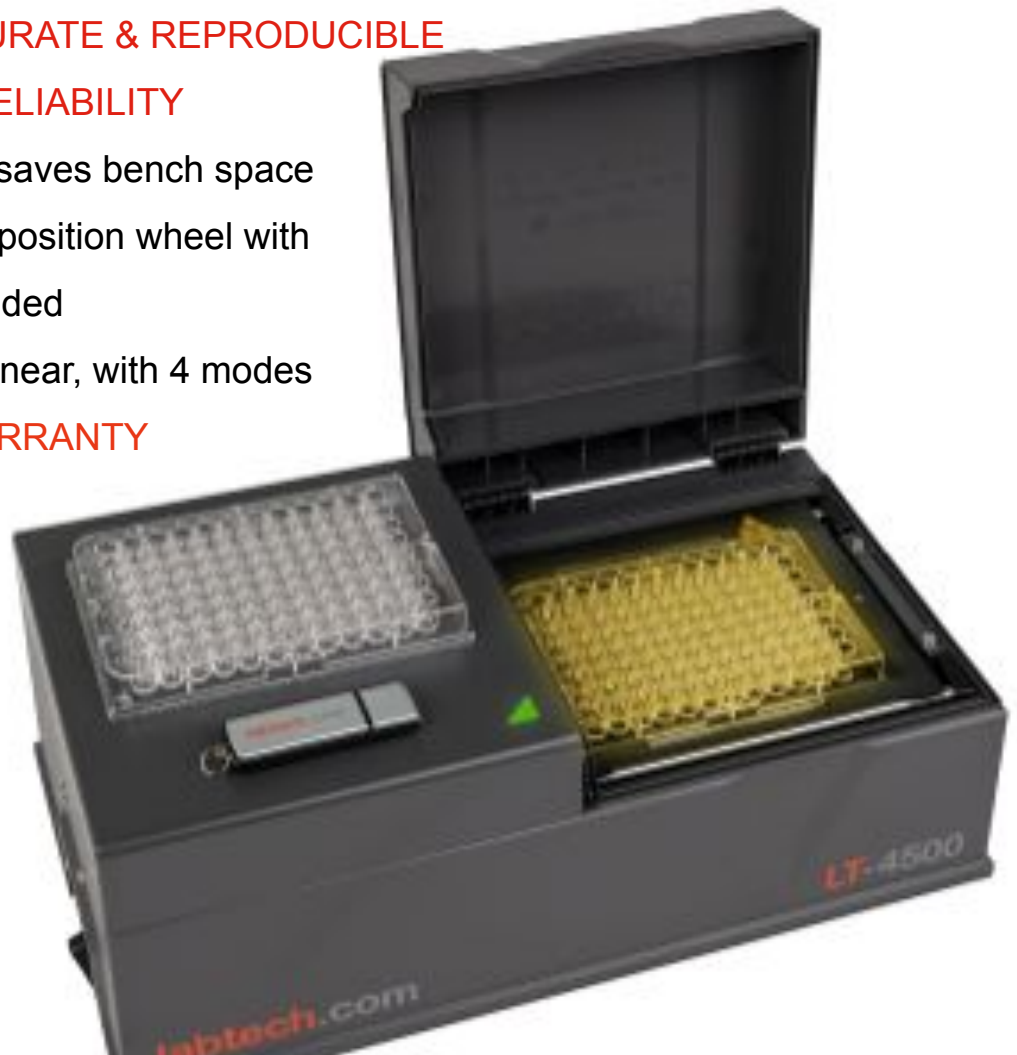**A compact absorbance reader using innovative LED technology complete with compliant PC control and data analysis software.**

MICROPLATE READER
Labtech LT-4500 Absorbance Reader

Why LT-4500?

- SOFTWARE: included, IVD-D and 21 CFR part 11 compliant

- PLUG & PLAY: for easy set-up within minutes

- FAST, ACCURATE & REPRODUCIBLE

- PROVEN RELIABILITY

- COMPACT: saves bench space

- FILTERS: 8 position wheel with 4 filters included

- SHAKING: linear, with 4 modes

- 2 YEAR WARRANTY

Labtech International Ltd

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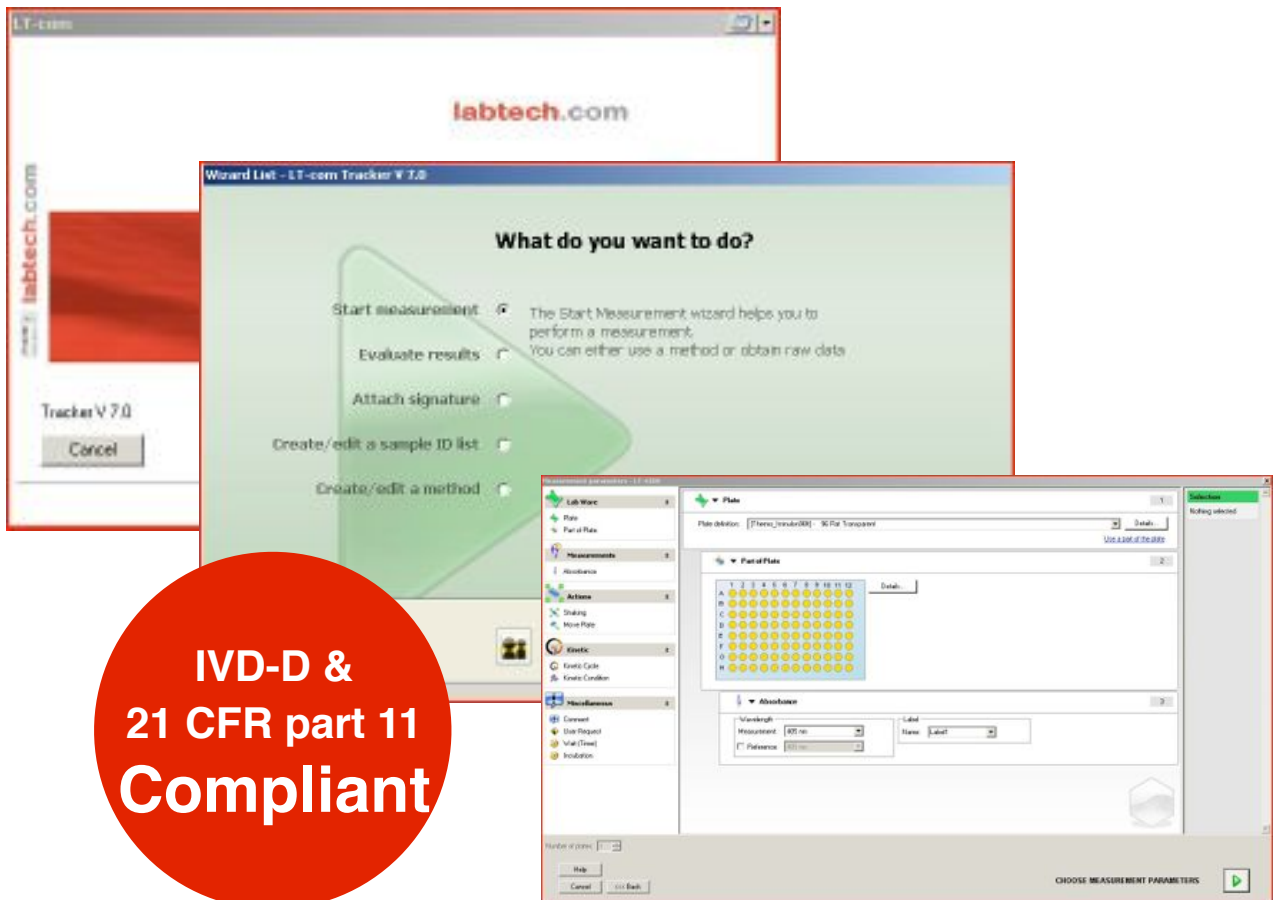
The Labtech LT-4500, compact absorbance reader using innovative LED technology.

The LT-4500 is Labtech's next generation reader providing fast, accurate and reproducible data from an ultra-compact design. The LT-4500 is a high performance visible absorbance reader supplied as standard with 21 CFR part 11 compliant LT-com PC software.

Labtech has used more than 20 years experience with microplate technology to produce an absorbance reader and software package to fit into all lab environments. At the heart of the LT-4500 is an innovative LED based optical system, which provides excellent data quality, ease of use and reliability together with low maintenance requirements. The LT-4500 is controlled by the new LT-com software package, which provides flexible qualitative and quantitative analysis capability, and the package has been designed from the outset to allow compliance with key regulatory requirements.

Key instrument features

- Compact design - 34.7 X 18.9 cm footprint saves valuable benchspace

- Easy setup - Plug and play USB interface allows easy setup in minutes

- Fast and accurate results- 8 channel (+1 reference) optical system ensures fast read times with accurate and reproducible results

- Proven reliability - Tested reliability of >100,000 plates

- Filters - Four standard filters with space for up to 4 optional filters that are user installable without the need for tools

- Shaking - Linear shaking with four modes

- LT-com data analysis software supplied as standard

LED technology

- Long maintenance free service life

- No warm up time or waiting

- 50% lower energy consumption than traditional readers

- No cooling fans or vents, therefore no dust drawn onto optics reducing light transmission

LT-com Software

The LT-4500 comes supplied as standard with Labtech's new LT-com PC control and data analysis software. This market leading package offers an intuitive drag and drop approach and wizard based interface to simplify protocol setup and data analysis:

Key software features

- Designed to meet the 98/79/EC IVD-D directive and the FDA 21 CFR part 11 regulation for data integrity

- Electronic signatures, records and multilevel user account management for use in clinical or regulated environments

- Choice of nine languages (English, Japanese, Chinese, French, German, Italian, Portuguese, Russian and Spanish)

- Full qualitative and quantitative analysis functionality including all major curve fits

- Fully flexible data exporting options including Excel®, ASCII and ASTM

- Comprehensive QC features including plate to plate QC

- Comprehensive kinetic data reduction capability

- Supplied on USB flash drive for easy installation on netbooks, laptops or desktop computers

IVD-D & 21 CFR part 11 Compliant

LT-4500 Specifications

Light source	LED, self calibrating
Detectors	Silicon photodiodes
Measurement channels	8 + 1 reference
Wavelength range	400 – 750 nm
Wavelength selection	Filter (8 filter positions)
Supplied filters	405, 450, 492 and 620 nm
Plate formats	96 well (including strip microplates)
Measurement range	0 – 4 OD
Resolution	0.0001 OD
Accuracy at 450 / 492 nm	
0.000 – 2.000 OD	≤ (0.5% + 0.010 OD) typical
2.000 – 3.000 OD	≤ (1.0% + 0.010 OD) typical
Precision / Reproducibility at 450 / 492 nm	
0.000 – 2.000 OD	≤ (0.5% + 0.005 OD) typical
2.000 – 3.000 OD	≤ (1.0% + 0.005 OD) typical
Linearity	
0.000 – 2.000 OD	≤ 1.0%
2.000 – 3.000 OD	≤ 1.5%
Computer Interface	USB 1.1/2.0
Dimensions (cm)	13.4 (h) x 34.7 (w) x 18.9 (d)
Weight	< 3 kg
Power Supply	External: 100- 240 V AC, 50 / 60 Hz (auto sensing)

Ordering information

Part Code	Description
LT-4500	LT-4500 Absorbance Plate Reader includes compliant LT-com analysis and control PC software and 2 year warranty.