

## Technical data

LFT 100 - Lateral Flow Tester	
<b>Working principle</b>	High-resolution image capture with large field of view Evaluation of greyscale line profiles Comparison with calibration curve
<b>Test size</b>	up to 90 mm x 60 mm
<b>Optical calibration</b>	Grey standard
<b>Test parameterization</b>	Via touchscreen, 2-D barcode or RFID scanner (optional)
<b>Reproducibility</b>	2 %
<b>Interfaces</b>	USB, LAN, RS232
<b>PC developer software</b>	Developer software with expert rights for remote control and parameterization via PC
<b>Application software</b>	Display of data, export to PC
<b>User interface</b>	Touchscreen display
<b>Input of patient ID and charge-specific parameters</b>	By external 2-D barcode reader or RFID (optional) or manually via touchscreen
<b>Degree of protection</b>	IP 21
<b>Internal Memory</b>	for up to 1.500 test results
<b>Touchscreen display</b>	Resistive, can be operated with protective gloves
<b>Operating time</b>	about 8 hours in battery mode
<b>Charging time</b>	11 hours (with external power supply)
<b>Conformity</b>	CE, IVD

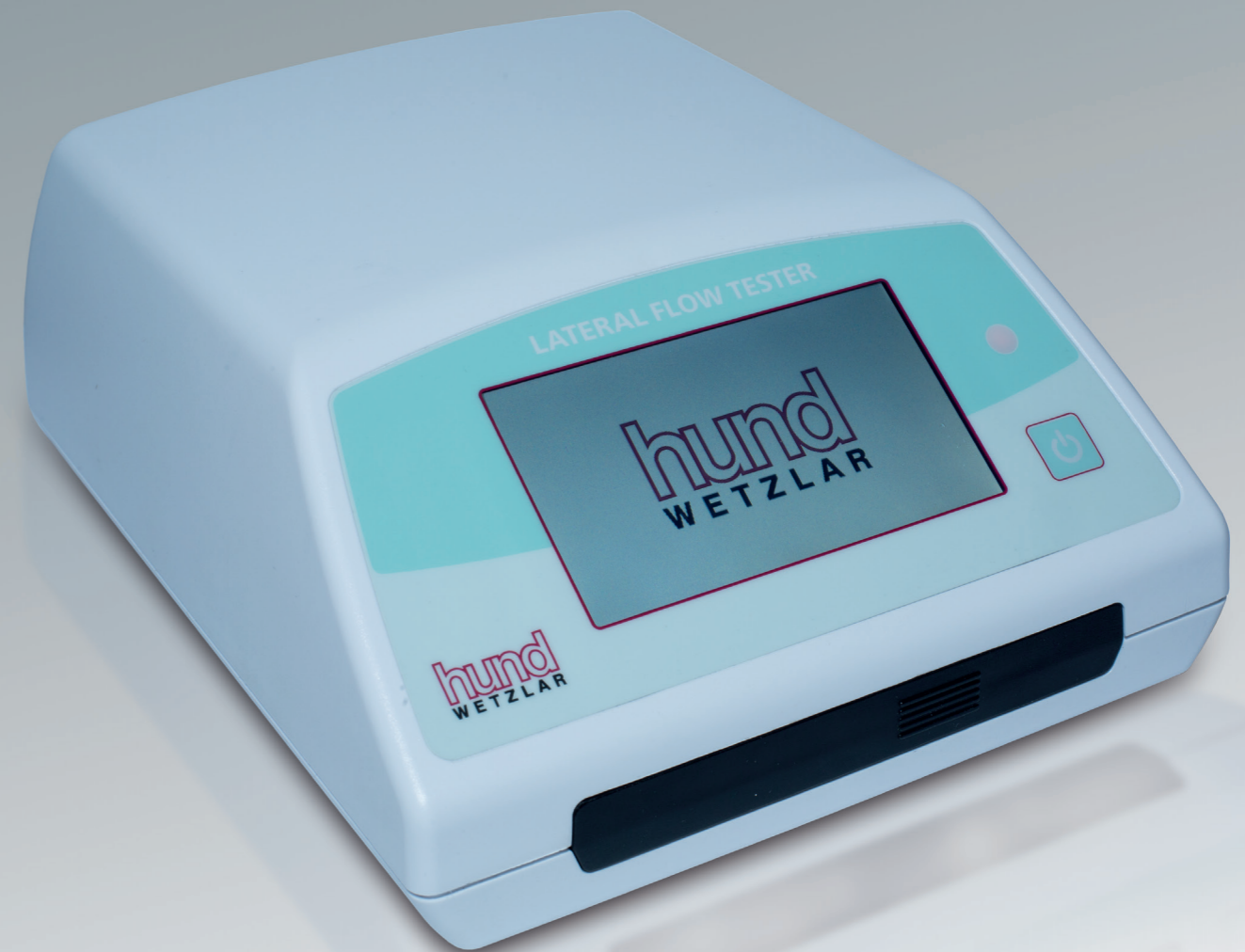
Technical data subject to changes without notice.

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**LFT 100 - Lateral Flow Tester**

**One reader for all types  
of Lateral Flow Tests**

# LFT 100 - Lateral Flow Tester

## Unmatched flexibility and accuracy

The LFT 100 is a standalone instrument for quantitative analysis of predefined lateral-flow tests at the point of care. New tests can easily be added by setting the calibration parameters through the development software. In addition, the LFT 100 is ready to analyze a large variety of tests with high accuracy.

### Your major benefits:

- **Unmatched flexibility:** quantitative reader for many types of lateral flow assays
- **Fast and reliable** camera-based technology w/o moving parts, auto control included
- **Interfaces** barcode or RFID reader
- **Ease-of-use** parametrization via PC connection

### Areas of use:

- Clinical diagnostics
- Point-of-care tests
- Drug monitoring
- **Medical field tests** for rescue services, police, border patrols and other emergency units
- **Quality tests** in the feed and food industry

## Unmatched flexibility

Lateral flow testers are usually designed for one single type of test. The LFT 100 facilitates the analysis of many different test geometries. The range of possible assays covers all sizes from comparably simple dipsticks to more versatile multi-stripe, multiline test systems for parallel testing of different targets.

The camera-based instrument features a large field of view, a high frame rate and high resolution to cover a multitude of different test sizes. The instrument thus becomes a versatile and future-safe tool for test providers and users and allows the development of tests based on a large variety of lateral-flow tests from various providers.

## Applications

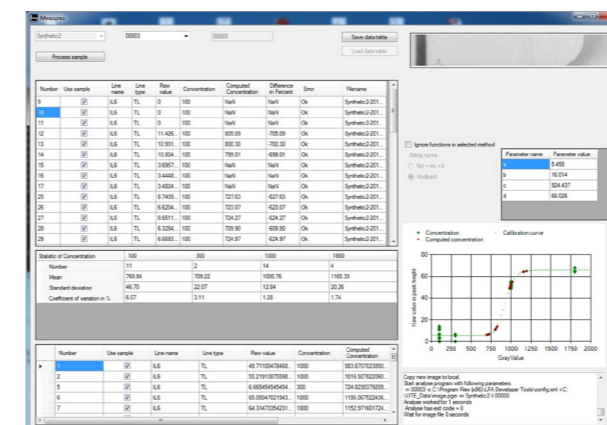
Lateral-flow testing is a wide-spread method for rapid diagnosis of diabetes, allergies, sepsis and bacterial inflammations, just to name a few. The method is also employed to determine the presence and concentrations of, e. g., cardiac markers, prostate-specific antigen (PSA) or illicit drugs in blood or stool samples. Apart from medical applications, lateral-flow tests are also used to determine certain toxins in food or animal feed.

Different applications require different test stripe geometries which, in general, vary between different manufacturers. The LFT 100 can examine a wide variety of tests ranging from simple dipsticks to multi-stripe, multiline tests.



## Easy to use

The calibration parameters and evaluation methods are generally supplied with each assay. They can either be typed into the instrument via the touchscreen display or, more conveniently, read through an optional, external barcode scanner or RFID reader via USB. For assay developers, the developer software offers a comfortable calibration mode to determine the calibration parameters for new tests and to generate the respective 2-D barcode or RFID code. The intuitive PC based user interface ensures fast and reliable diagnostic results at the point of care.



## Reliable operation and reproducible results

Before a new measurement is initiated, the LFT 100 starts a self-test sequence to ensure that the instrument works within predefined tolerances. This guarantees reliable and reproducible diagnostic results. In addition, the illumination setup and possible influences of temperature and dust is permanently controlled and compensated without extending the measurement and analysis time interval.

The LFT 100 is qualified as an In-Vitro Diagnostic Device (IVD) according to European Directive 98/79/EC. Thus, it complies with all relevant safety regulations.

**Method: IL6**  
**Lot: 00067**  
**Patient: Hans Meier**

# 100 $\mu\text{mol/ml}$

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