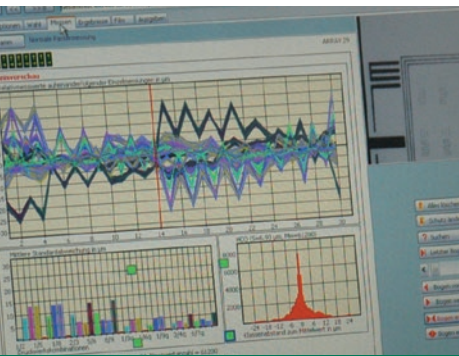


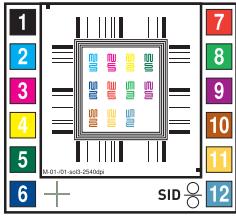
Register Measuring System LUCHS IV

The fourth generation of the LUCHS Register Measuring System with a completely new device concept and new measuring elements. Application areas in offset, flexo and digital printing. Scope of delivery consists of only the handheld measuring head – connectible to an already available laptop by USB – and the control software.



Polygraphische innovative
Technik Leipzig





Register Measuring System

LUCHS IV

Working Principle

The registration accuracy of a printing press or processing machine is determined by the capture and analysis of special measuring elements with the LUCHS IV camera measuring head.

The measuring elements can be placed in many different positions across the printed sheet.

The automatic analysis assigns the measured results to the corresponding printing units and positions on the printed sheet and summarises the results in various protocols and graphs.



PITSID develops systems for the graphic arts industry together with the Sächsisches Institut für die Druckindustrie.

The current product assortment comprises devices for measuring and testing print registration, contact pressure, traction force, packing height, gap widths, UV curing, IPA concentrations, book block strength and also printing plate positioning in plate bending devices and roller adjustments.

PITSID Polygraphische innovative Technik Leipzig GmbH

D-04329 Leipzig
MommSENstraße 2
Tel +49 341 25942-0
Fax +49 341 25942-99
info@pitsidleipzig.com
www.pitsidleipzig.com

Technical Data

Measurement uncertainty

< 5 µm (when following the measurement guidelines and with good print quality < 2µm)

Measuring elements and areas of application

- Simultaneous registration measurement in both longitudinal and lateral directions, complete analysis of up to 12 printing units with one measurement
- Special measuring elements for rough substrates and application in flexo and digital printing
- Optional: Measurement of special doubling-free elements in offset printing
- Optional: Special measurement for the registration of sheet, cut or folded edges

Compatibility and enhancements

- Measured data compatibility to LUCHS II/III
- Possibility to measure the new measuring elements in 4 directions
- Considerable improvement of the measurement capability of light, low-contrast inks due to the use of a colour camera
- Faster measuring head positioning due to a larger field of view

Output of results

- Choice of different result graphs (measured value sequence, standard deviation, frequency distribution, etc.)
- Relative sheet view represents the positional change and distortion of the sheet while moving through the printing press
- Possible choice of different result protocols or the creation of individual protocols using the protocol editor
- Protocol output using a standard printer or data export

Device components

Handheld measuring head connectible to an already available laptop/PC using a USB 2.0 connection and the control software, carrying case

Hardware and software requirements

- Min. 2.13 GHz CPU, Dual Core
- Min. 4 GB RAM
- Min. 500 MB free disk space
- USB 2.0 port without power limitations
- Operating system: Windows 7 (32/64) or higher in German or English

Measuring head

Dimensions (W x H x D): 145 x 90 x 50 mm

Weight: 600 g

USB 2.0 connection: Power consumption of 500 mA at 5 V