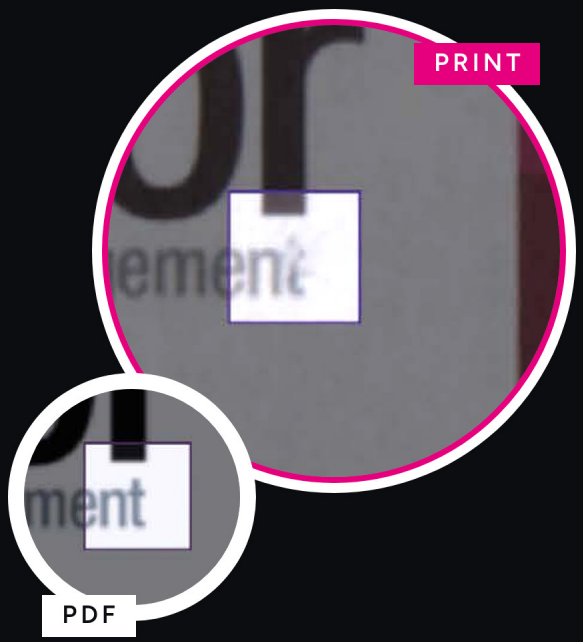
LithoScan SIP



NEW LITHOINSPECT SIP

Scan. Compare. Approve.



100 % inspection of the printed sheet at up to 1200 dpi: against the customer PDF or the approved sheet — with local AI and, on request, spectral color measurement.

S Spectral

Color measurement and color control with built-in spectral and density sensors.

I Image to image

The sheet is compared with a previously approved sheet.

P Scan to PDF

The sheet is compared with the print-ready PDF.



HOW AN INSPECTION WORKS

From scan to decision in about a minute.

Place the sheet face up and press Scan. The vacuum pulls it flat and **nothing touches the print** — even wet sheets can be checked. The software **finds every up by itself**.

1 Choose the job

Enter the job name; matching PDFs from the prepress folder are suggested.

2 Confirm the preview

Select the printing separations and mark the die line if needed.

3 Place the sheet

Face up, contact-free, pulled flat by the vacuum.

4 Scan

The sheet is captured and every up is found within seconds.

5 Review the defects

Accept, reject or comment — defect by defect.

6 Print the report

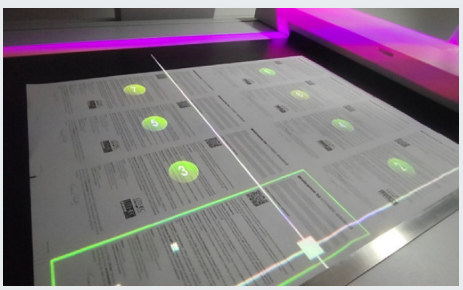
One joint report or one per product.

Comparison with the PDF

The default. The PDF is the reference; everything in the print that does not match is reported.

Comparison with the approved sheet

Tighter and faster: once a sheet is approved, every further scan is compared directly with it.



Laser Locator (option): shows the defects directly on the sheet.

Up to 32 PDFs per job

Different ups on one sheet are found in any rotation.

Rescans show only what is new

Only defects that appeared since the last scan are shown.

One scanner, several presses

Each press keeps its PDFs, its last scan and its decisions.

Repeated defects at once

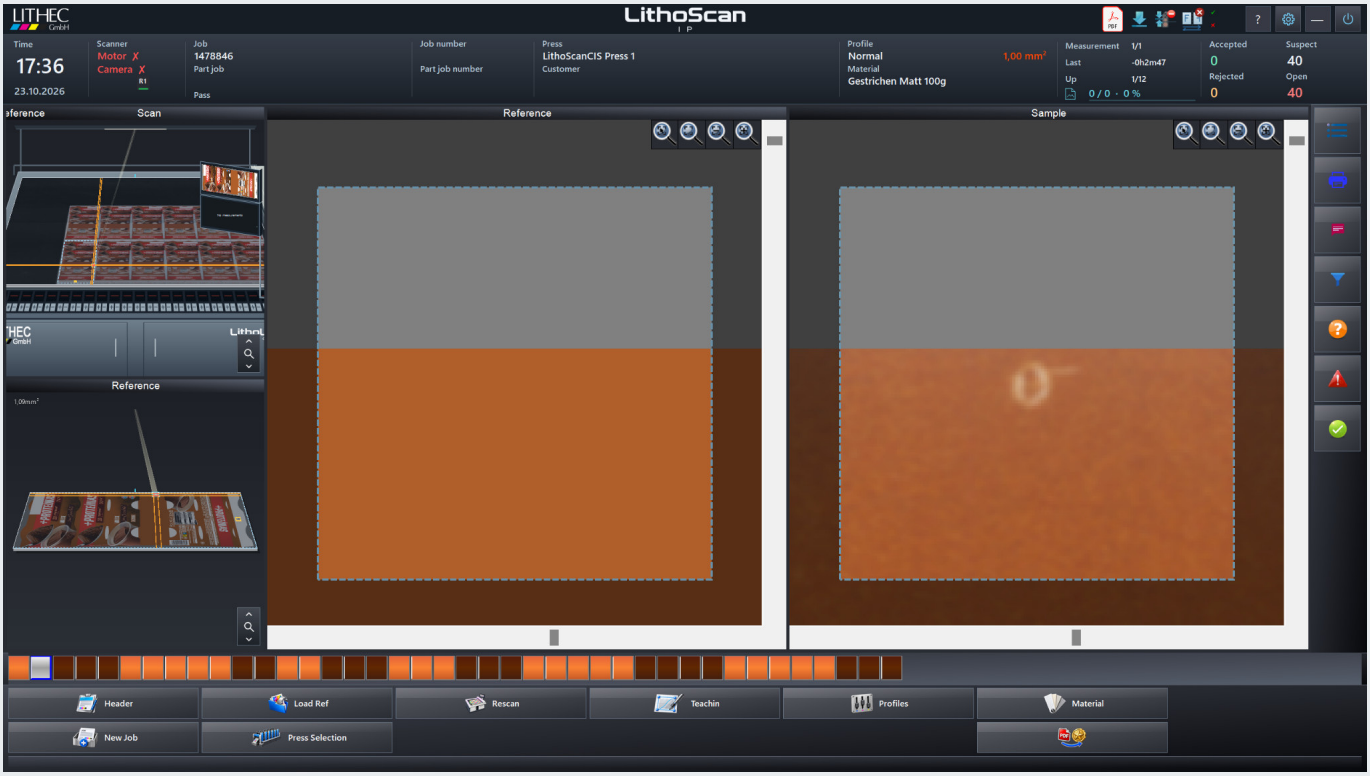
The same defect on several ups is judged with one click.

NEW LITHOINSPECT SOFTWARE V7

Faster. More reliable. With local AI.

INSPECTION TIME · LITHOSCAN (S)IP 106 · 480 DPI

35 s	30 s	60 s	45 s
Full sheet, first run	Full sheet, rescan	6–20 ups, first run	6–20 ups, rescan



The new interface: the sheet in 3D on the left, reference and scan in the middle, the defect bar below.

Local AI NEW
A neural network classifies the defects directly on the system — no internet connection.

PDF prerendering NEW
A folder watcher (local or network) converts PDFs while the system is idle: up to 2 minutes saved.

New white and dark calibration NEW
A new procedure for calibrating the camera.

Faster reports NEW
The inspection report is created much faster.

QR and barcode evaluation NEW
To ISO, available as an option.

Recovery tool NEW
Back up and restore a working state.

More reliable results NEW
Fewer suspect cases; blanket defects and scratches detected more reliably. No ICC calibration needed.

Live filters and sharpness NEW
Filter defects live by size and type; change the sharpness without rescanning. Up to 1200 dpi.

New interface NEW
Touch-optimized, with much faster displays.

In-app update NEW
New versions directly from within the application.

Braille evaluation NEW
Checks Braille, available as an option.

Documentation in all languages NEW
Manual and technical docs in nine languages.

EDITIONS AND RETROFIT

New or. retrofitted.

Camera and software can be retrofitted to any existing Densitronic or older LithoScan installation. As software only, LithoInspect also compares PDF with PDF.

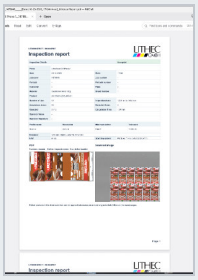


LithoScan editions

	I	IP	SIP
Scan to scan	✓	✓	✓
Scan to PDF	·	✓	✓
Spectral color measurement and control	·	·	✓

What is detected

- Damaged or deformed blankets
- Ink contamination and small ink spots
- Scratches, streaks, smearing, doctor-blade lines
- Hickeys, foreign particles, ghosting
- Typographic defects: wrong fonts, broken characters, missing glyphs



The inspection report

- Cover page with job, profile and verdict
- Overview with defect positions
- Per defect: print, reference, difference image, size
- Statistics by defect class and verdict
- One report per sheet or per product

Technology

- Scanner in three sizes: 1,100 × 750, 1,650 × 1,200 and 2,200 × 1,650 mm
- Up to 1200 dpi, RGB line camera with maintenance-free LED illumination
- Vacuum table, industrial PC and touch monitor
- Up to 5 presses on one scanner
- Interface and manual in nine languages
- Options: Laser Locator, QR and barcode evaluation to ISO, Braille evaluation

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This flyer shows the system in full specification. The actual scope of performance depends on the edition and on the order specification. Times measured on LithoScan (S)IP 106 at 480 dpi. Subject to technical change. All trademarks named are the property of their respective owners.
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