

C O R E H I S T O L O G Y S O L U T I O N S

LEICA IP C & IP S

DON'T LOSE SIGHT OF A PATIENT



LEICA IP C
CASSETTE PRINTER

LEICA IP S
SLIDE PRINTER

Advancing Cancer Diagnostics
Improving Lives

Leica
BIO SYSTEMS



DON'T LOSE SIGHT OF YOUR SPECIMENS

Print directly onto cassettes and slides to create legible labels. Leica IP C cassette and IP S slide printers help to avoid transcription errors, smudged labels and mix-ups caused by illegible handwriting. It's the secure way to correctly link a specimen in your laboratory to a patient needing answers.



RELIABLE IDENTIFICATION

Print standard characters, logos and barcodes for reliable specimen tracking. With the Leica IP printers, you choose identifiers that enable trackability in your laboratory.

DURABLE LABELS

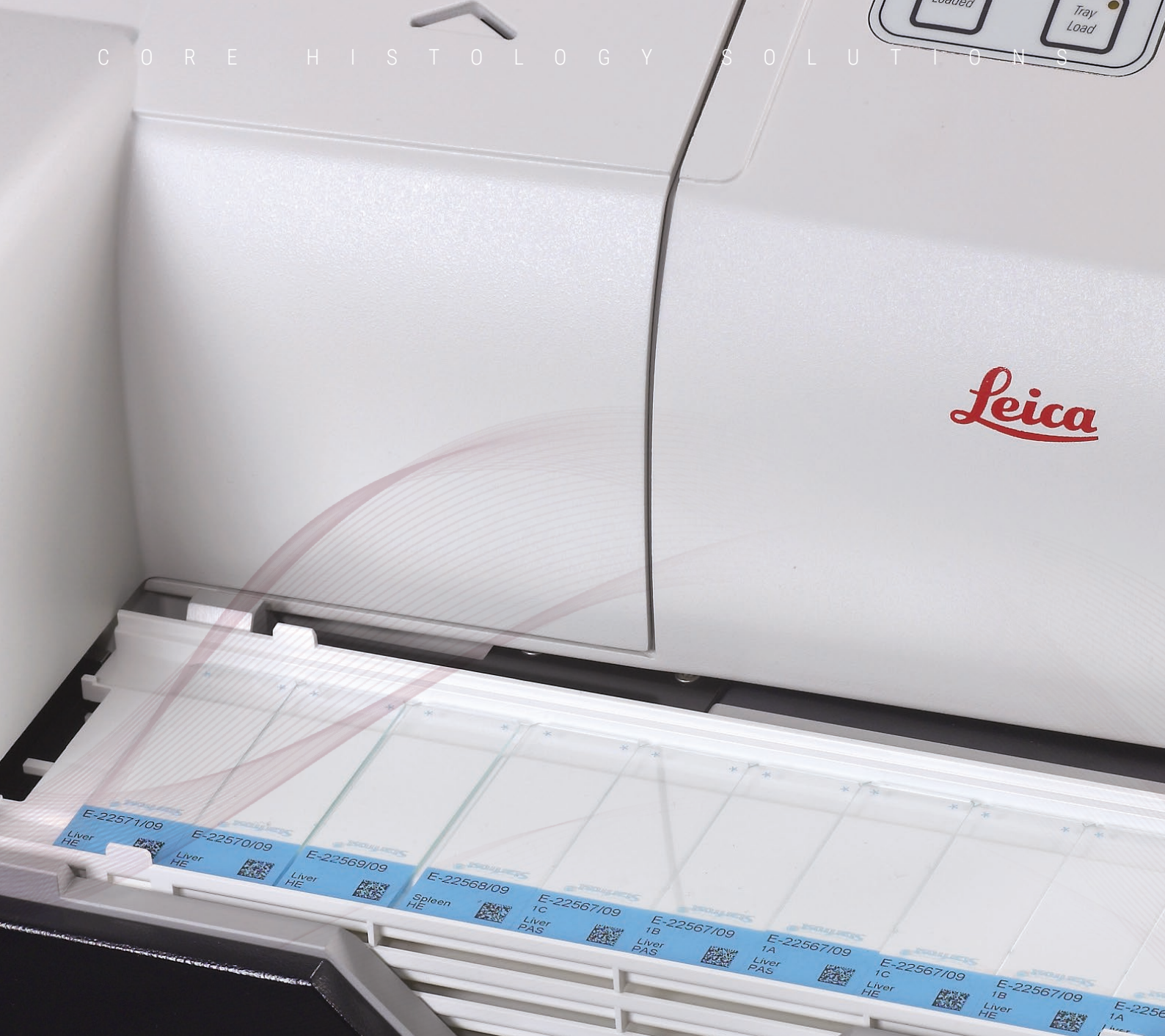
Leica IP printers use a resistant ink that prevails against the routine reagents used in your histology laboratory. The imprint on each cassette and slide remains readily identifiable throughout the histology process and storage period.

REDUCED ERRORS

Direct printing on cassettes via LIS or PC connectivity reduces opportunities for human error and misidentified specimens. This process helps to avoid transposed numbers, misread handwriting and peeling or misaligned labels. The ability to print scanner-readable barcodes enables trackability.

ORGANIZED WORKFLOW

Organize cassettes and slides to create an orderly workflow. Each printer has multiple magazines to accommodate a variety of cassettes and slides. To help reduce specimen mix-up, the optional unload station can group cassettes and slides on trays while maintaining the correct sequence.



DON'T LOSE SIGHT OF LABORATORY PRODUCTIVITY



Efficiently produce labeled cassettes and slides while you concentrate on the actual work. It's the productive way to correctly link a specimen in your laboratory to a patient needing answers.

AUTOMATED

Set up the printer, then walk away. With large capacity magazines, LIS or PC control and optional unload station, the Leica IP C and IP S automate specimen labeling, whilst supporting staff productivity.

FAST

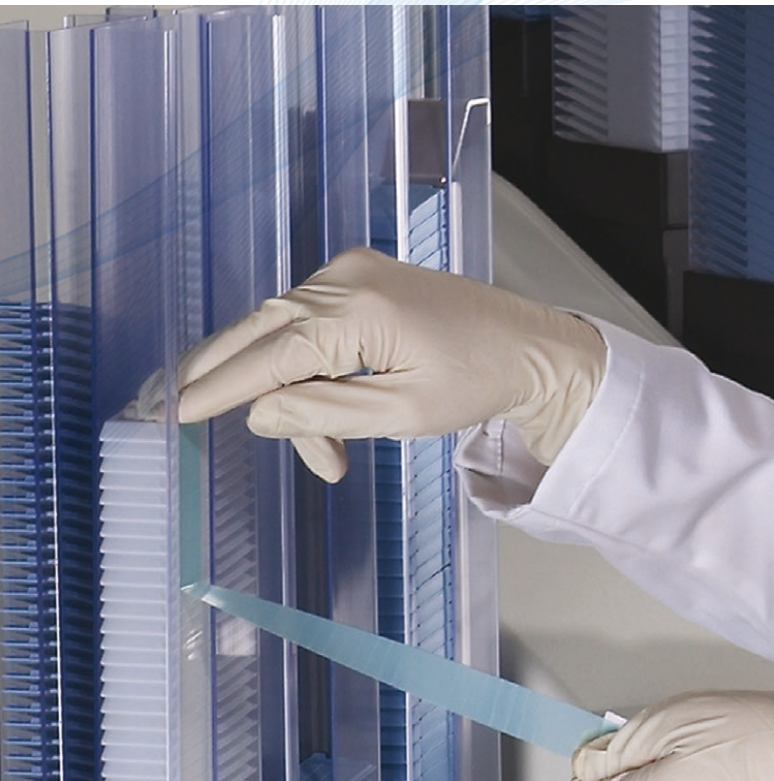
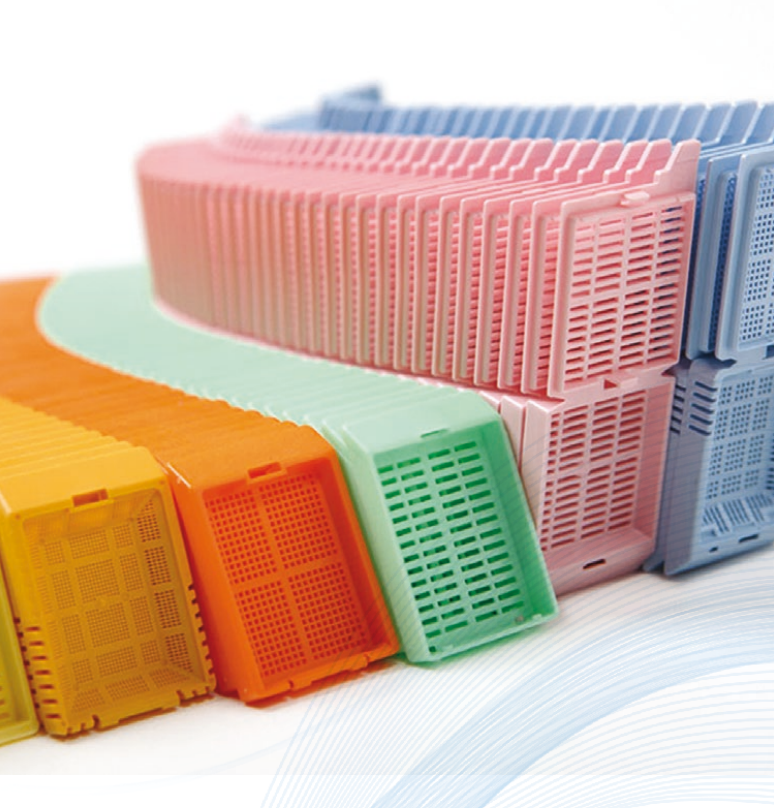
Don't waste valuable time waiting for labeled cassettes and slides. The Leica IP C and IP S have the speed to stay ahead of demand. The Leica IP C delivers up to 15 labeled cassettes/minute (batch printing) while the Leica IP S labels up to 14 slides/minute.

LARGE CAPACITY

Meet your laboratory's workload demands. With high-capacity magazines, the Leica IP C and IP S need minimal maintenance during a shift. The Leica IP C has a 480-cassette capacity, the Leica IP S holds up to 450 standard slides. Both can label up to 60,000 items on a single ink cartridge.

FLEXIBLE

Mix and match cassette and slide types to suit the laboratory's case load. The six magazines of the Leica IP C printer accept a wide variety of cassette types; load each separately so you have a range of styles and colors available. Use the three magazines on the Leica IP S to load different slide types and label colors. With this wide range of compatible cassettes and slides, Leica IP printers offer the flexibility to match your laboratory's needs.



LEICA IP C

COMPLETE CASSETTE LABELING SOLUTIONS

Quickly load the Leica IP C printer with Leica Biosystems taped IP Cassettes for a complete labeling solution. The recommended cassettes are taped together to facilitate quick and efficient loading. The cassettes printing surface and ink are optimized and validated with your satisfaction in mind. It's the convenient and validated way to increase productivity and improve specimen security.

OPTIMIZED MAINTENANCE

Label up to 60,000 cassettes with each ink cartridge.

EASY-TO-USE

Use the Leica IP C as stand-alone printer or integrated into your LIS system.

ORGANIZED OUTPUT

Sort up to 100 cassettes with the optional unload station. 10 cassettes (per tray) can be conveniently grouped and transported on each of the 10 trays.

LOAD AND WALK AWAY

Six magazines with 80 cassette capacity (480 cassettes in total) give the choice to use different cassette colors, types and imprint angles, even cassettes with attached lids. Magazines can be pre-loaded with an optional external cassette magazine holder.

MULTIPLE OUTPUTS

Print standard characters, logos and common barcode formats.





LEICA IP S

COMPLETE SLIDE LABELING SOLUTIONS

Match Snowcoat® and X-tra® Adhesive clipped corner slides to the Leica IP S for a complete solution. The 45° clipped corner provides smooth transport through the instrument to optimize instrument uptime.

REDUCED MAINTENANCE

Label up to 60,000 slides with each ink cartridge.

EASY-TO-USE

Use the Leica IP S as stand-alone printer or integrate into your LIS system.

ORGANIZED OUTPUT

Sort slides for orderly collection and to avoid specimen mix-up. 11 slides (per tray) can be conveniently grouped and transported on each of the 10 trays.

LOAD AND WALK AWAY

Three magazines hold up to 150 slides each (450 in total). Magazines can be pre-loaded with an optional external slide magazine holder.





LEICA IP C

LEICA IP C TECHNICAL SPECIFICATIONS

Nominal supply voltages (+/- 10%)	100 – 120 V~ / 200 – 240 V~
Nominal frequency	50 – 60 Hz
Power draw	480 VA
Dimensions (with unload station)*	548 x 550 x 980 mm (W x D x H)
Instrument weight (with unload station)	Approx. 44 kg
Working temperature range	15 to 35°C
Relative humidity	max. 80%, non-condensing
Throughput of cassettes	Up to 15 cassettes per minute in serial mode
Cassette print angles	Adjustable for 35° and 45° cassette angles
Print resolution	180/360 dpi
Magazine capacity	6 magazines, can hold up to 80 cassettes each (total 480 cassettes)
Unload station capacity	10 trays, 10 cassettes per tray
External cassette magazine holder capacity	6 magazines, can hold up to 80 cassettes each (total 480 cassettes)
Cassettes per stack	Approx. 40, held together by detachable tape

* with cassette magazine inserted

LEICA IP S

LEICA IP S TECHNICAL SPECIFICATIONS

Nominal supply voltages (+/- 10%)	100 – 120 V~ / 200 – 240 V~
Nominal frequency	50 – 60 Hz
Power draw	480 VA
Dimensions (with unload station)*	548 x 550 x 655 mm (W x D x H)
Instrument weight (with unload station)	Approx. 43 kg
Working temperature range	15 to 35°C
Relative humidity	max. 80%, non-condensing
Throughput of slides	Up to 14 slides per minute in serial mode
Print resolution	180/360 dpi
Magazine capacity	3 magazines, can hold up to 150 slides each (total 450 slides)
Unload station capacity	10 trays, 11 slides per tray
External slide magazine holder capacity	6 magazines, can hold up to 150 slides each (total 900 slides)

* with slide magazine inserted



Leica Biosystems – an international company with a strong network of worldwide customer services:

NORTH AMERICA SALES AND CUSTOMER SUPPORT

North America	800 248 0123
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ASIA/PACIFIC SALES AND CUSTOMER SUPPORT

Australia	1800 625 286
China	+85 2 2564 6699
Japan	+81 3 5421 2804
South Korea	+82 2 514 65 43
New Zealand	0800 400 589
Singapore	+65 6779 7823

EUROPE SALES AND CUSTOMER SUPPORT

For detailed contact information about European sales offices or distributors please visit our website.

Leica Biosystems is an international company with a strong network of worldwide customer services. For detailed contact information on your nearest sales office or distributor please visit our website:

LeicaBiosystems.com

A COMPLETE SPECIMEN ID SOLUTION

PRINTERS

- Use the printing solution that suits your laboratory
- Leica IP C for batch or case labelling cassettes
- Leica IP S for batch or case labelling slides
- HistoCore PERMA S Slide Printer for on-demand printing on specimen slides.

CASSETTES AND SLIDES

Leica Biosystems has a large range of standard and biopsy cassettes plus a range of slides with different corners, coatings and label colors.

HISTOLOGY INSTRUMENTS AND CONSUMABLES

For a complete solution, Leica Biosystems can assist any laboratory with a complete range of histology instruments and matching consumables.



Leica Biosystems is a global leader in workflow solutions and automation. As the only company to own the workflow from biopsy to diagnosis, we are uniquely positioned to break down the barriers between each of these steps. Our mission of "Advancing Cancer Diagnostics, Improving Lives" is at the heart of our corporate culture. Our easy-to-use and consistently reliable offerings help improve workflow efficiency and diagnostic confidence. The company is represented in over 100 countries. It has manufacturing facilities in 9 countries, sales and service organizations in 19 countries, and an international network of dealers. The company is headquartered in Nussloch, Germany. Visit LeicaBiosystems.com for more information.

Advancing Cancer Diagnostic
Improving Lives



CEREBRO

SPECIMEN TRACKING
AND WORKFLOW MANAGEMENT



WHAT IS CEREBRO?

CEREBRO is an integrated specimen identification, tracking, and workflow management solution for anatomical pathology labs with four cascading implementation options:

CEREBRO-ID

- » CEREBRO-ID: Batch print labels, cassettes, and slides at accessioning
- » CEREBRO-ID+: Upgrade to on-demand printing at grossing and sectioning

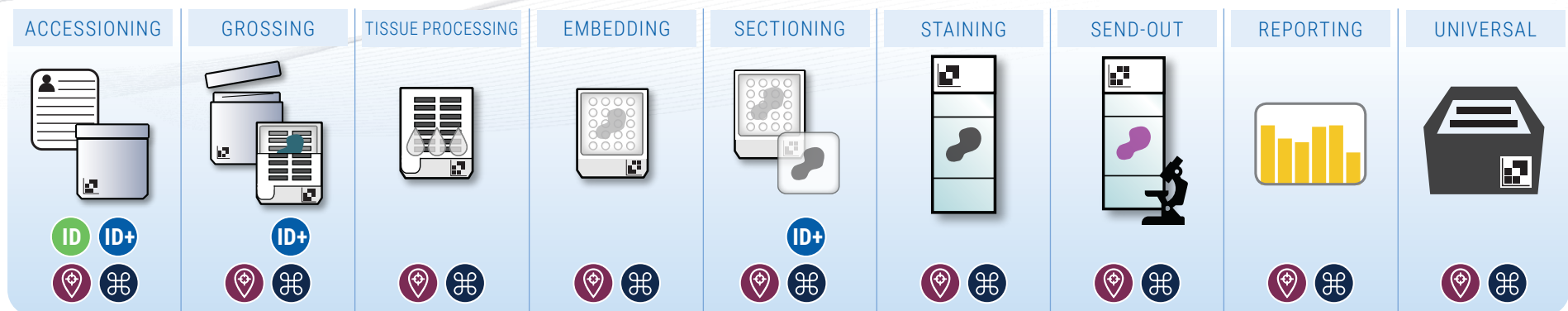
CEREBRO-ID+

CEREBRO-TRACK

- » Batch or on-demand print labels, cassettes and slides at accessioning, grossing, and sectioning
- » Track specimen through all different workflow steps

CEREBRO-COMMAND

- » Batch or on-demand printing
- » Track specimen progress
- » Control case integrity with checks at every step
- » Monitor and manage the workflow with reports and dashboards



PATIENT SAFETY

PROTECT THEIR HEALTH

Don't let identification errors lead to patient misdiagnosis. CEREBRO is a specimen tracking and workflow management system implementing a documented chain of custody. Now, you can go home at the end of each day confident that the correct slides will reach the pathologist for diagnosis.



ID CONFIRMED – ALL SPECIMENS ACCOUNTED FOR – EVERY TASK COMPLETE

With CEREBRO, scanning the item ID actively verifies case details. At each stage you confirm the link between the item and the patient, make sure no items are overlooked, and ensure tasks are correctly completed.

WHEN QUALITY AND PATIENT SAFETY IS PARAMOUNT

CEREBRO is an automated, standardized, lab management tool which cultivates accountability and adherence to critical processes in your specimen processing workflow.

MAINTAIN SPECIMEN IDENTITY

Helps meet guidelines from accrediting bodies e.g., CAP, CLIA and ISO.

FULL LIS CONNECTIVITY

Keeps everything in-sync and leaves nothing to chance.

PREVENT READ AND TRANSCRIPTION ERRORS

Thanks to high quality label printing using Leica Biosystems printers.

USE YOUR PREFERRED PATIENT ID

Share it with existing instruments and systems. Refer to the patient using a single identifier.

FACILITATE COMPLETE TISSUE CARE USING SPECIMEN SPECIFIC NOTES

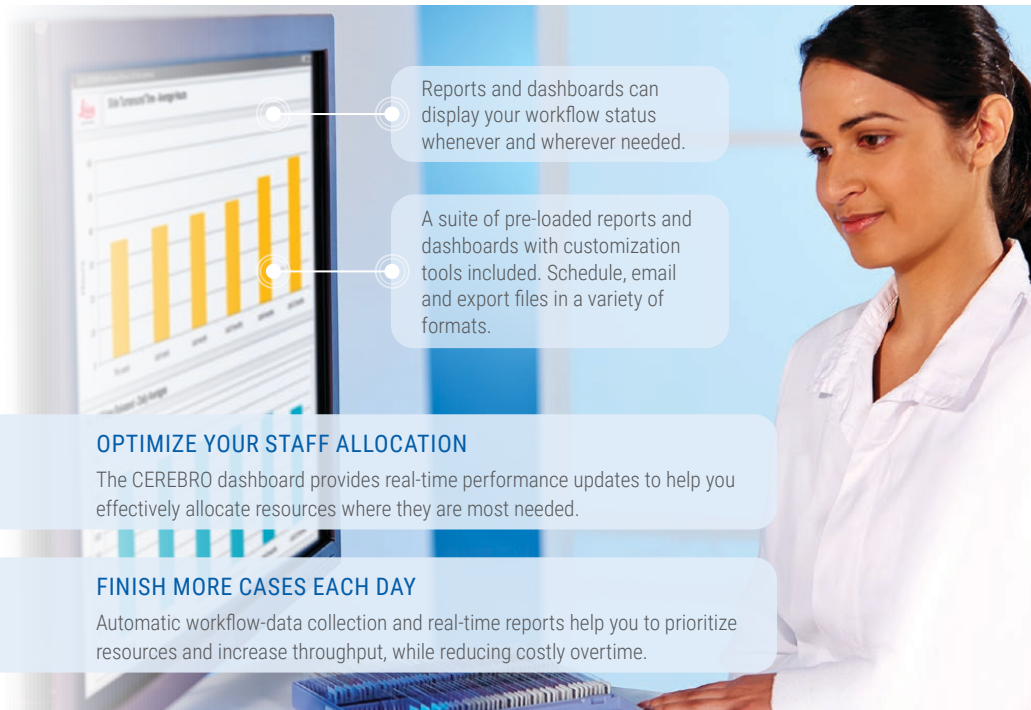
Use predefined or free text notes to pass-on detailed instructions.



PRODUCTIVITY

MAKE INFORMED DECISIONS WITHOUT COMPROMISING PATIENT SAFETY

- » Mistakes are costly. CEREBRO identifies potential errors as they happen, allowing them to be resolved quickly.
- » Maintaining a high quality and efficient operation is challenging. CEREBRO will help standardize your specimen processes and provide you data for continuous improvement.
- » Support lab growth and control expenditures. CEREBRO provides real-time information to make data driven decisions about costs, resources and throughput.



Reports and dashboards can display your workflow status whenever and wherever needed.

A suite of pre-loaded reports and dashboards with customization tools included. Schedule, email and export files in a variety of formats.

OPTIMIZE YOUR STAFF ALLOCATION

The CEREBRO dashboard provides real-time performance updates to help you effectively allocate resources where they are most needed.

FINISH MORE CASES EACH DAY

Automatic workflow-data collection and real-time reports help you to prioritize resources and increase throughput, while reducing costly overtime.



High quality printing using Leica Biosystems Printers makes labeling fast and efficient while eliminating a source of human error.

Advanced connectivity, wide compatibility and complete lab coverage save time by reducing repetitive data entry.

Monitor the status of any specimen. Anywhere, anytime.

Pinpoint where your specimen is immediately with the CEREBRO system's comprehensive audit trail.

ASK HOW ONE HOSPITAL SAVED
2800
HOURS A YEAR*

* Leica Biosystems CEREBRO automated sample tracking by Paul Williams MSc CSc FIBMS, Published in Hospital Healthcare Europe 2015. www.hospitalhealthcare.com

SUPERIOR ADAPTABILITY

DON'T COMPROMISE

Give your lab an advantage. CEREBRO dashboards provide real-time workflow status to help you effectively allocate people where they are most needed.

- » Use your preferred instruments. CEREBRO can integrate with Leica Biosystems and non-Leica Biosystems instruments and IT systems.
- » Just because you have the same type of specimens, doesn't mean your lab works the same way as other labs. CEREBRO allows you to set up your lab the way that suits you.



DESIGNED WITH YOU IN MIND

CEREBRO has been designed specifically for the anatomical pathology lab, featuring familiar iconography which allows easier dissemination of information.



ONE EASY-TO-LEARN SYSTEM

Highly visual and intuitive interface is easy to understand and is powerfully productive.

CEREBRO IS DESIGNED FOR TOUCHSCREEN

Adaptable, regardless of space constraints.

ADJUSTS TO YOU

Flexible mounting options for touchscreens adjust to each operator for ergonomic comfort, productivity and safety.

ADAPTABLE PRINTING

Batch, on-demand or hybrid – it's your choice.

CEREBRO-ID

FOR EFFORTLESS PRINTING

CEREBRO-ID is a simple, yet comprehensive printing solution. It is purpose-built for printing barcodes on labels or directly onto slides and cassettes. It connects to your Laboratory Information System (LIS) as well as instruments.

Start your journey with CEREBRO-ID, then upgrade to more powerful lab automation applications in the CEREBRO suite when you're ready.

CEREBRO-ID KEY FEATURES

- » Cassette, slide and label printing
- » Works with Leica Biosystems or 3rd party printers
- » Connects your LIS to pathology printers
- » Label designer is included
- » User-definable shortcuts and lists for fast data entry
- » Connects to lab instruments (e.g., BOND stainers)
- » Secure access and encrypted data storage



CONFIGURE TO SUIT YOUR SPECIFIC LABORATORY

- » **STANDALONE MODE:**
Accessioning Client used for data entry and printing
- » **LIS DIRECT PRINTING MODE:**
LIS is used for data entry and data is sent to the printer via CEREBRO
- » **LIS FULL INTEGRATION MODE:**
LIS case data is saved in the CEREBRO application for subsequent downstream printing modalities as well as interoperability with other instruments



CEREBRO-ID+

FOR ON-DEMAND PRINTING

Move from batch to on-demand printing via a simple addition of CEREBRO-ID+ workstations wherever you need on-demand printing (e.g., at microtome).

Have as many, or as few, CEREBRO-ID+ workstations as you need. CEREBRO-ID+ can grow with you, every step of the way.



CEREBRO-ID+ KEY FEATURES

In addition to the CEREBRO-ID features, CEREBRO-ID+ offers:

- » On-demand printing wherever it is needed
- » Initiate on-demand printing of cassettes and slides or slide labels simply by scanning a barcode on the specimen jar or cassette
- » Combine in-advance printing with on-demand printing (e.g, cassettes and slides)
- » Server functionality via Accessioning client for sharing data, centralized data storage, and easy administration

CEREBRO-ID and ID+ Printing Solutions can also be used to connect your other Leica Biosystems instruments. You can connect the BOND stainers to the image management software and slide scanners using CEREBRO as the middleware between the systems.



CEREBRO-TRACK

KNOW THE STATUS OF ANY SLIDE, ANY TIME

Adding tracking capability is a natural progression from the ID or ID+ printing solution. CEREBRO-TRACK creates a complete specimen audit trail that can be viewed at any time.

Continue to leverage your investment in ID or ID+ and use your existing workstations for printing. But now, they will also store the tracking information - no need to collect it manually. Additional workstations can be placed wherever you need to track specimen processing.

CEREBRO-TRACK KEY FEATURES

In addition to all CEREBRO-ID and ID+ features, CEREBRO-TRACK offers:

- » Purpose-built workstations for tracking accessioning, grossing, tissue processing, embedding, sectioning, case assembly (send-out)
- » Generic tracking station for tracking specimen archival and workflow deviations, e.g., decalcification step
- » Web-based reports and dashboards to display case item-specific audit trail and tracking information
- » The Case History tab is available in all workstations showing a detailed audit trail for specific case items
- » Report and dashboard designer available for ad-hoc reporting needs



CEREBRO-COMMAND

THE ABILITY TO DRIVE EFFICIENCY AND PATIENT SAFETY

CEREBRO-COMMAND is a full-featured specimen identification, tracking, and workflow management system for histology and cytology. It adds specimen identification safety checks and workflow management features on top of all functionality inherited from ID, ID+, and TRACK versions.

CEREBRO-COMMAND alerts users if steps are missed or cassettes or slides are lost. It safeguards transcription steps at grossing and sectioning, confirming that the tissue ends up in the correct cassettes and slides.

The data collected with each barcode scan can be used to generate dashboards and reports that show key performance indicators, work pending for any step, and urgent work. Collection and delivery of statistics can be automated with scheduled reports.

CEREBRO-COMMAND KEY FEATURES

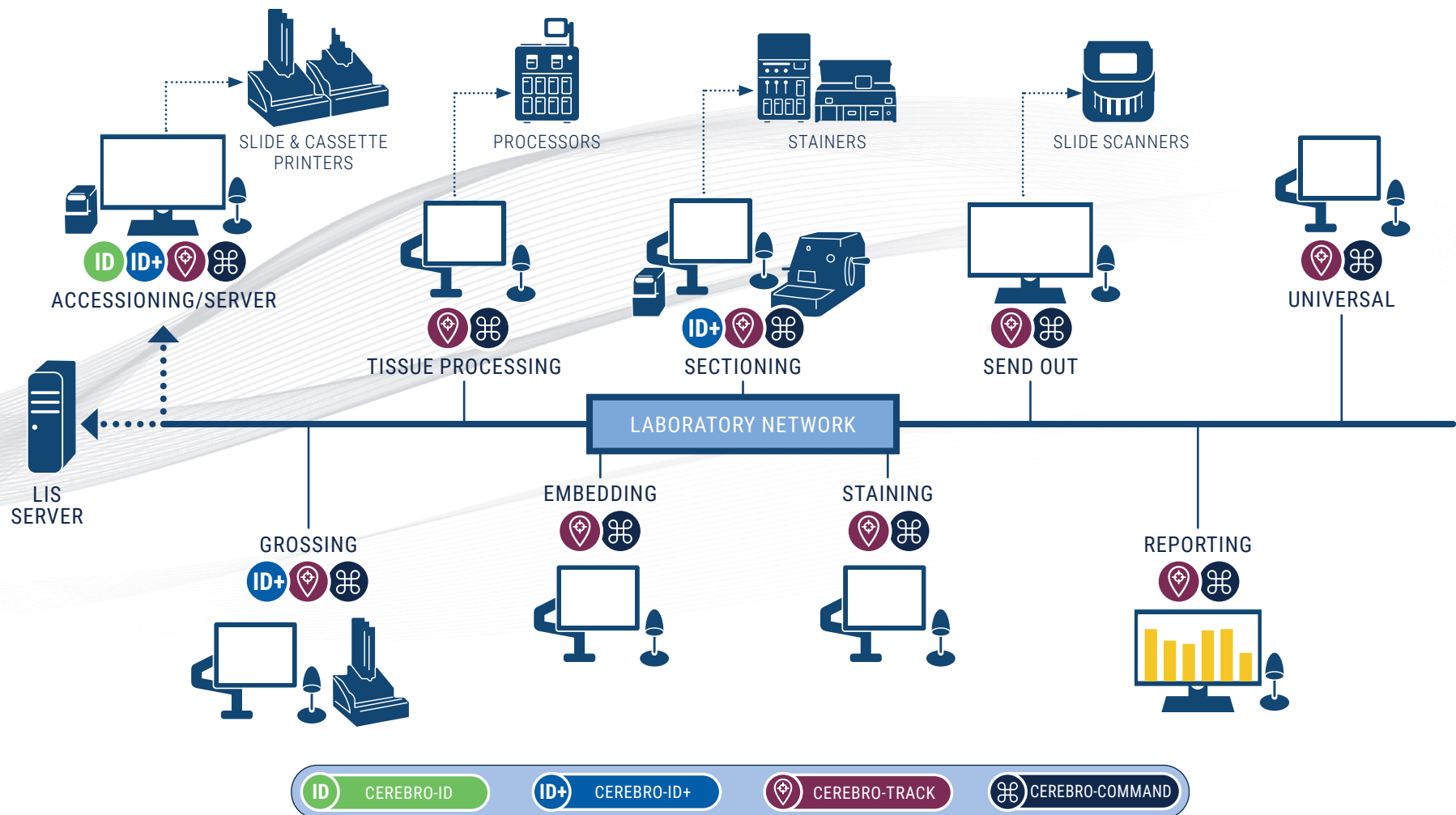
In addition to the full suite of CEREBRO-ID, ID+, and TRACK features, CEREBRO-COMMAND offers:

- » Step-specific counters indicating remaining work, e.g., slides ordered and slides already sectioned
- » Active step-specific missing work warnings, e.g., if all slides have NOT been sectioned
- » Integrity check at grossing and sectioning alerting if a wrong slide or cassette is scanned
- » Screen for each workflow step and workstation to show pending work
- » Reports and dashboards for showing pending and completed work
- » Turnaround-time reports and dashboards

WARNING MESSAGE SCREEN



CEREBRO & THE ANATOMICAL PATHOLOGY LABORATORY WORKFLOW



Not a medical device. Not intended to diagnose, treat, cure, or prevent any disease or health condition.

WHAT IS THE RIGHT CEREBRO FOR ME?

	CEREBRO-ID	CEREBRO-ID+	CEREBRO-TRACK	CEREBRO-COMMAND
LIS CONNECTIVITY	✓	✓	✓	✓
INSTRUMENT CONNECTIVITY	✓	✓	✓	✓
BATCH PRINTING	✓	✓	✓	✓
ON-DEMAND PRINTING		✓	✓	✓
TRACKING AND AUDIT TRAIL			✓	✓
STORAGE ALLOCATION			✓	✓
REPORTS AND DASHBOARDS			✓	✓
CASE NOTES, USER-DEFINED AND FREE TEXT				✓
CASE INTEGRITY CHECKS				✓
WORKFLOW INSIGHTS				✓

START SIMPLE, UPGRADE GRADUALLY TO FULL TRACKING AND WORKFLOW MANAGEMENT SOLUTION



ACCESSIONING



GROSSING



TISSUE PROCESSING



EMBEDDING



SECTIONING



SEND OUT



24" WORKSTATION/SERVER



15" WORKSTATION

OPTIONS

- » Keyboard and Mouse
- » LIS connectivity
- » Instrument connectivity
 - BOND Staining Systems
 - Image Management Systems
 - Roche instruments
 - Agilent instruments
 - Other 3rd party instruments

SOFTWARE

- » Accessioning
- » Grossing
- » Processing
- » Embedding
- » Sectioning
- » Staining
- » Case Assembly
- » Administration, Universal

WORKSTATIONS

- » 24" PC with Touchscreen
- » 15" All-in-one Touchscreen PC

MOUNTING

- » Desk, freestanding
- » Desk, flexible arm
- » Desk, flexible arm, dual screen
- » Wall, flexible arm

PRINTING

- » IP C Cassette Printer
- » IP S Slide Printer
- » PERMA S Slide Printer
- » Cognitive CXi Label Printer
- » Zebra Label Printer

BARCODE SCANNERS

- » Scanner, USB cable, with stand
- » Scanner, wireless, with cradle