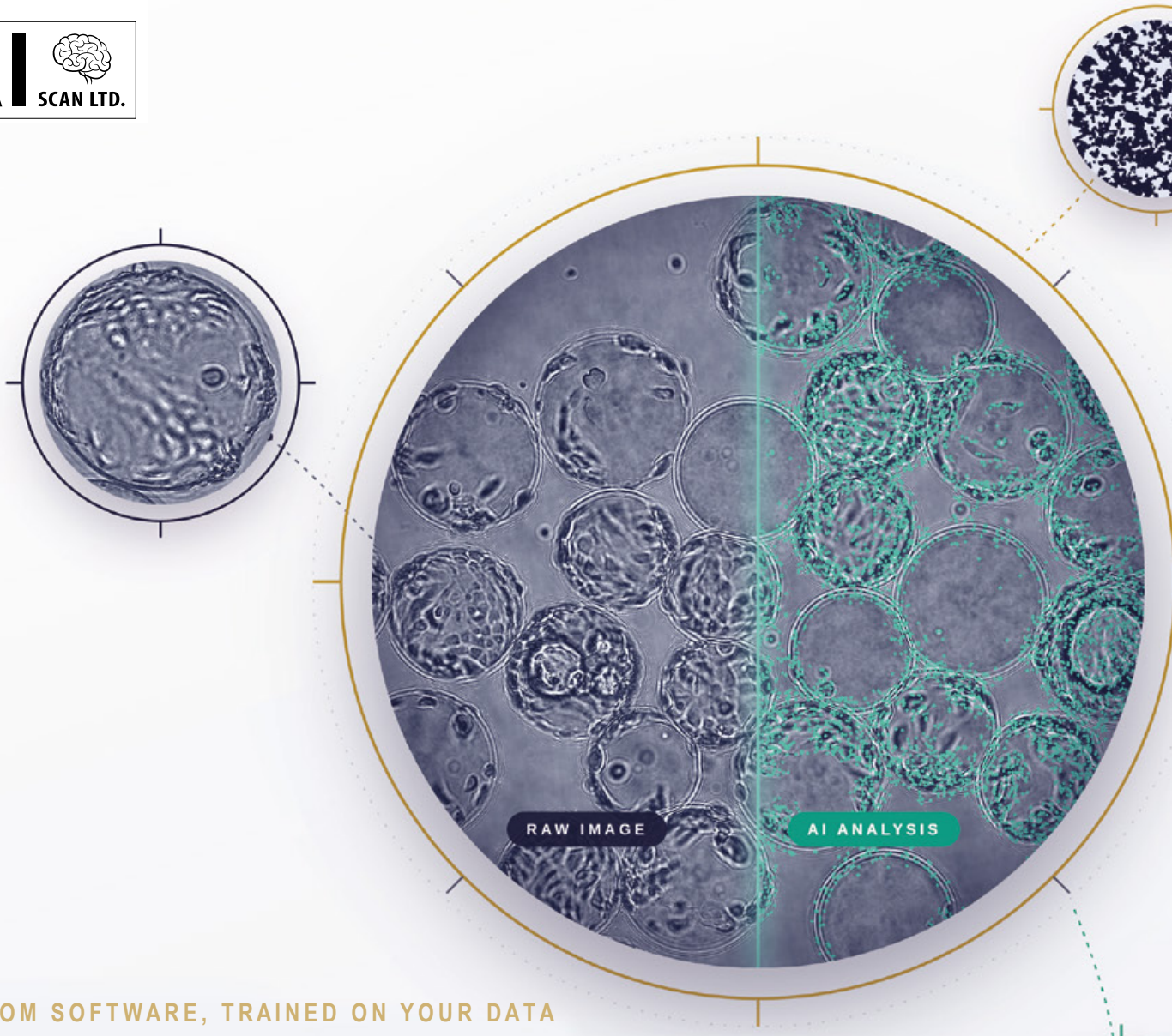
AI SCAN LTD.



CUSTOM SOFTWARE, TRAINED ON YOUR DATA

Images in. Numbers in. Decisions out.

Wherever a trained person looks, counts, classifies, compares or grades an image or a data set, that task can be made reproducible. You bring the grading problem, the data and the criteria; we build AI-based software around them – trained on your samples, for your process.

Instrument-independent

Works with what your microscope or analyser already produces.

Trained on your data

Your samples, your criteria, your environment — not a generic model.

Built for the record

Every result keeps its data and a confidence value, ready for audit.

WHAT AI SCAN IS

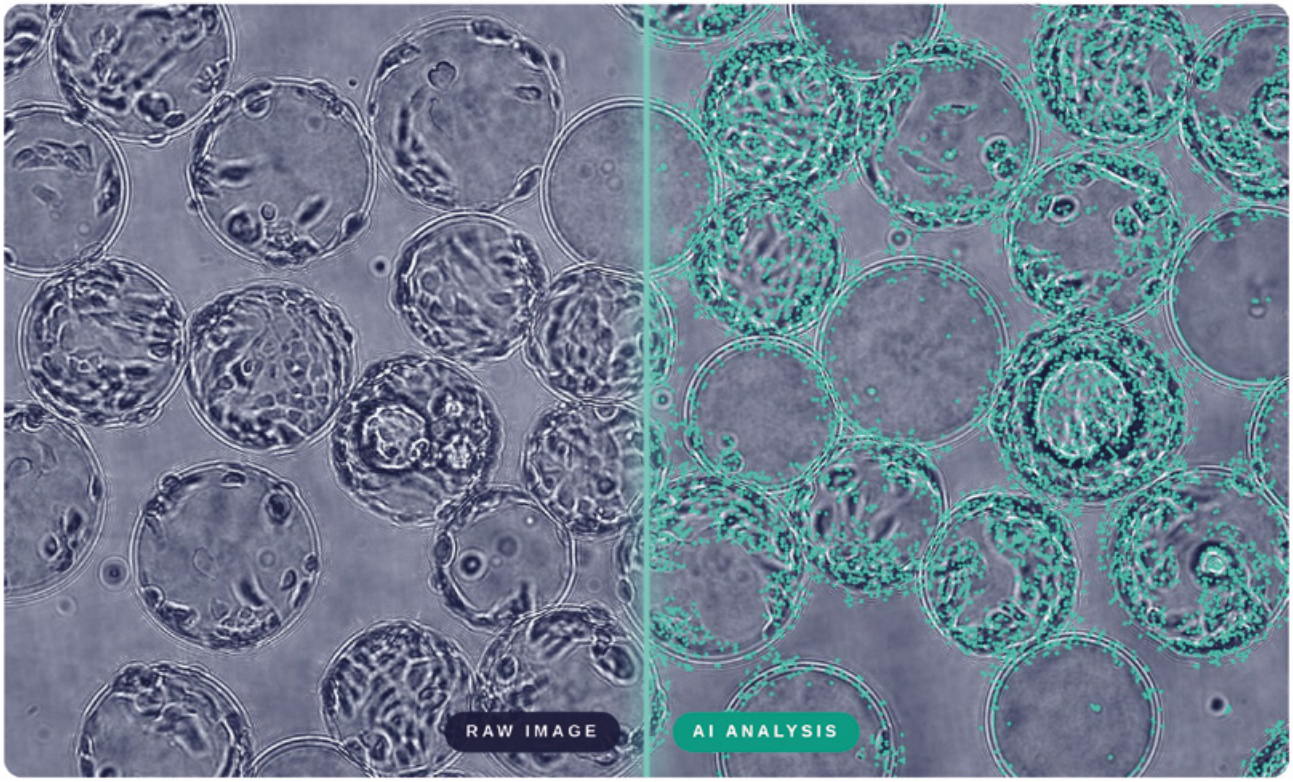
Not a device – the software that grades

AI Scan is not an imaging device and does not replace your instrument. It automates the **manual grading step** – the person who reads what your microscope or analyser already produces. Built from the R&D of Vet-Med-Labor (a diagnostic lab network founded in 2003), it works with image and numerical data, is instrument-independent, and is shaped to your problem, samples and criteria.

THE PRINCIPLE

If a person grades it repeatedly, it can be automated

Problem	The task a person performs today.
Data	The images or numerical data available.
Criteria	The professional rules grading is made by.
Model → Result	Trained on your samples; returns the output the process needs.



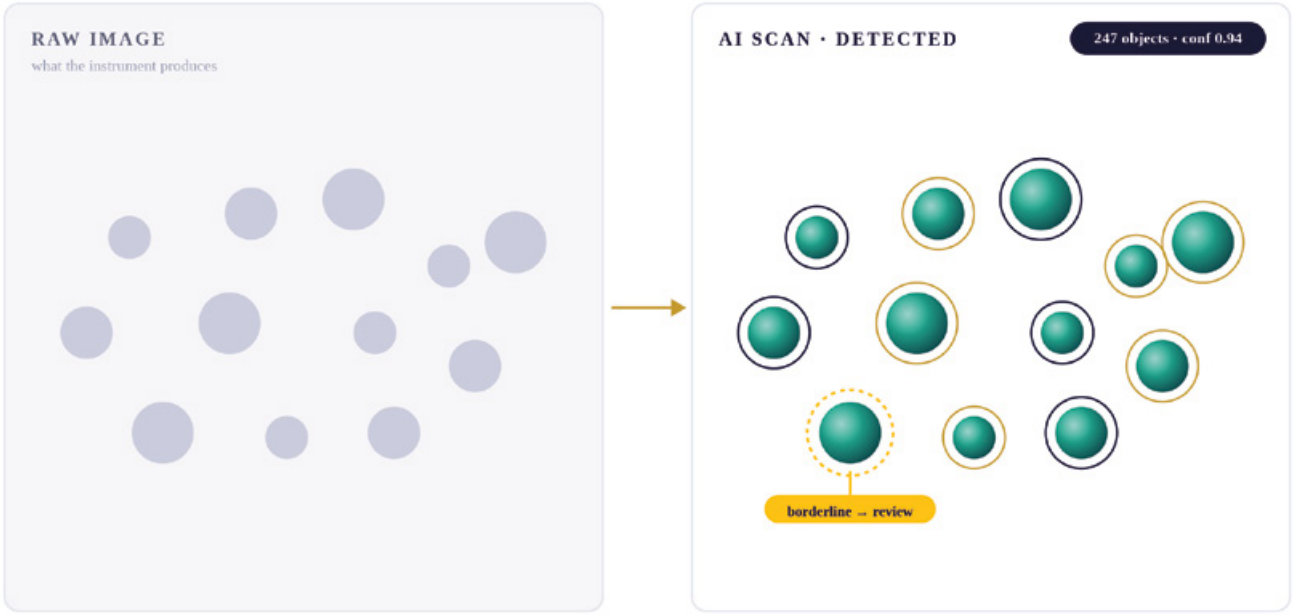
THE SAME MICROCARRIER FIELD — RAW MICROSCOPE IMAGE AND AI SCAN READING SIDE BY SIDE

WHAT THE OUTPUT CAN BE

A number, a category, a decision – or a flagged borderline case

- Counting
- Classification
- State
- Quantities
- Decision
- Borderline

Example reading: raw image (what the instrument produces) → AI Scan · detected 247 objects · conf 0.94; borderline → review.



THE SAME FIELD, READ THE SAME WAY EVERY RUN — OBJECTS COUNTED, CLASSIFIED, AND BORDERLINE CASES FLAGGED

ACCURACY IS NOT REPEATABILITY

Only one of the two is absolute



A tight cluster, every time.

The system grades the same image under the same conditions reproducibly – the reading does not drift. Whether that cluster sits exactly on the bullseye (accuracy on every biological sample) has honest limits, which is why genuine borderline cases are handed back to a person rather than forced. Where a decision must be defensible, reproducibility and a recorded confidence value are often worth more than a headline accuracy figure.

HOW THE SOLUTION IS BUILT

On your own data and criteria

1. Data collection	You provide images or data for the specific task.
2. Labelling	Image- or object-based; your expert can take part.
3. Training	Model built and fine-tuned on the right samples.
4. Testing	You test on your data; weak points feed back in.
5. Handover	The finished software runs in your environment.

FEASIBILITY IS NOT TRAINING

We state both up front

STAGE 1
FEASIBILITY

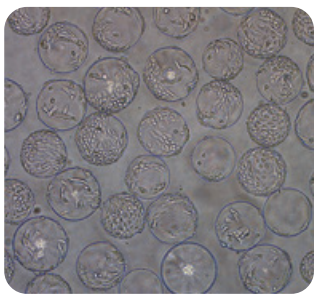
20 images, or one data set. A written opinion in two weeks. Free, no commitment – it tells you whether the task is measurable.

STAGE 2
TRAINING

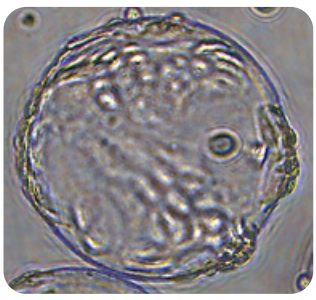
Typically 800–1000 images. Varied and representative of the real process – enough to train a model you can rely on.

STAGE 3
DELIVERED

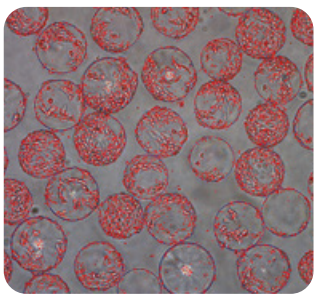
Runs in your environment. On your instrument, in your data environment, integrated and validated with your team.



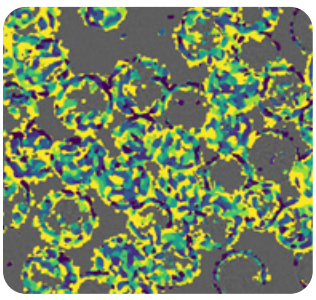
RAW IMAGE



RAW IMAGE



AI ANALYSIS



AI ANALYSIS

WHERE IT FITS

Ten pharmaceutical workflows

01 Cell culture harvest timing
Bead/monolayer confluence from two focal planes.

02 Colony counting & EM plates
Bioburden and EM plates counted the same every shift.

03 Visible particle inspection
Particles, fill level, closure seating; borderline explicit.

04 Lyophilised cake appearance
Collapse, meltback, shrinkage on one scale.

05 Tablet & capsule visual QC
Coating, colour drift, embossing – batch after batch.

06 Particle size & crystal habit
Morphology and size from micrographs, not by eye.

07 Cell count & viability
Counts and viability without operator drift.

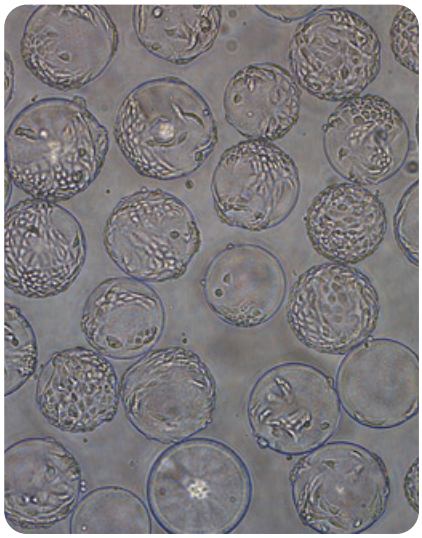
08 Preclinical slide scoring
Lesions pre-detected and ranked before the pathologist.

09 Gels, blots, TLC, chromatograms
Band and peak calls made reproducible.

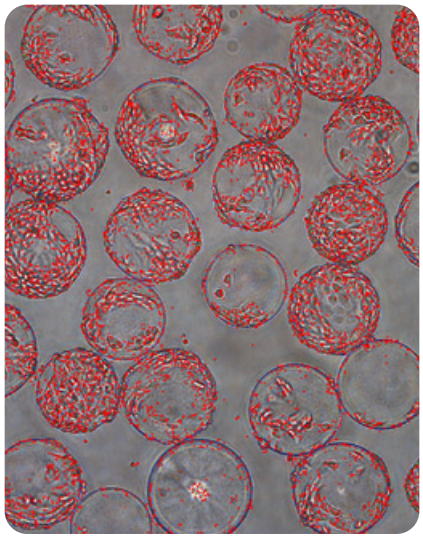
10 Stability study appearance
Colour, clarity, precipitation – same at T0 and 24 months.

NOT ON THE LIST?

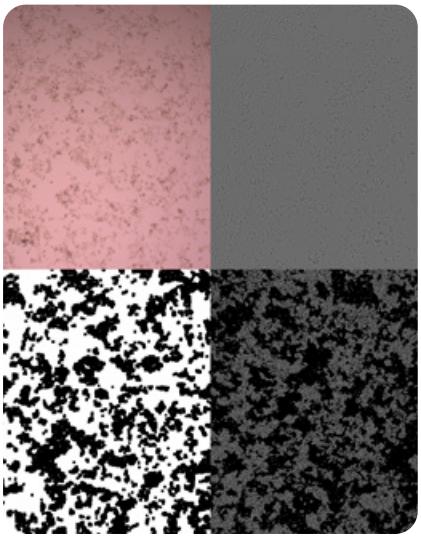
The pattern is always the same: a person looks and makes a call. If that happens in your process, it can be measured instead – tell us which one, and Stage 1 will tell you whether it is feasible.



RAW IMAGE



AI ANALYSIS

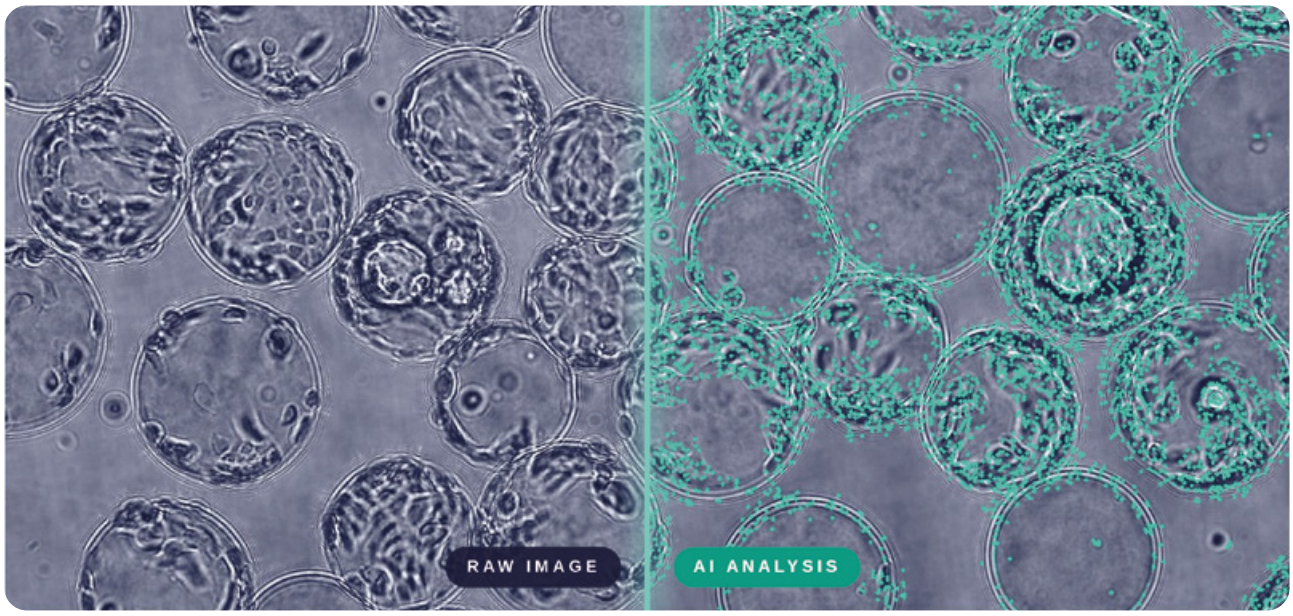


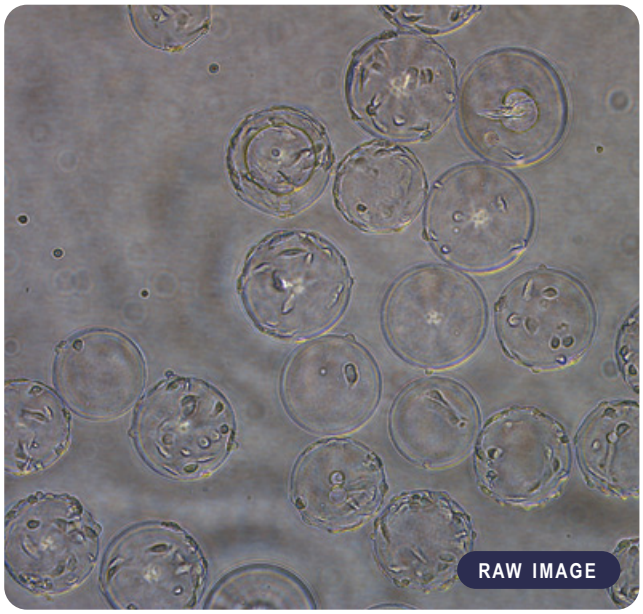
AI ANALYSIS

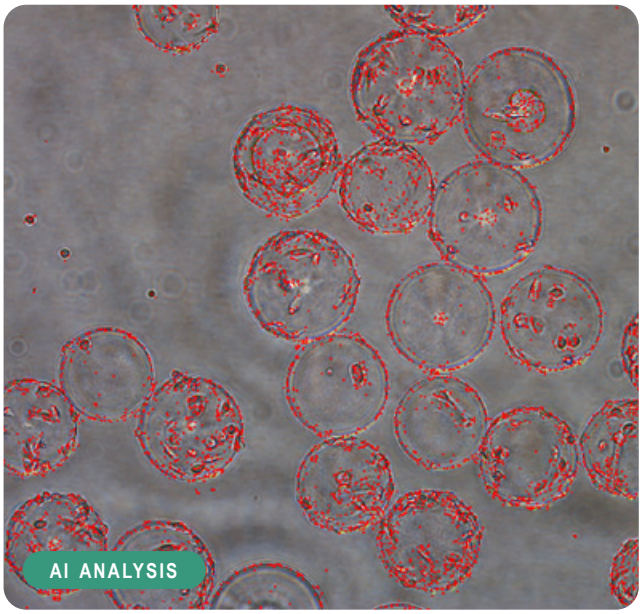
WHAT THE SYSTEM DELIVERS

Manual grading → a reproducible process

Reproducibility	Same image, same model, same result – the reading does not drift between operators or shifts.
Standardisation	Grading criteria fixed and recorded in the process, not carried in someone's head.
Scalability	Data volume can grow; the manual load need not grow with it.
Auditability	Underlying data and the confidence value of every call are retained.
Instrument-independent	Not tied to one microscope or imaging maker – it reads what you already produce.







DATA SECURITY & INTEGRATION

As serious as the algorithm

- Projects can begin under NDA.
- Training images handled on a segregated, offline internal network.
- After handover we have no access to your images – you work in your own system.
- A model trained for one client is never reused for another.
- On-premise operation; integrates with LIMS/MIS over a protocol.

GMP AND VALIDATION

Who validates what

AI Scan provides	Algorithm, software framework and the training/testing documentation.
You validate	Final validation of the complete system, by your QA organisation.

WHY WE PUT IT THIS WAY

Software cannot be „GMP validated" out of the box – validation only exists together with your process, environment and documentation.

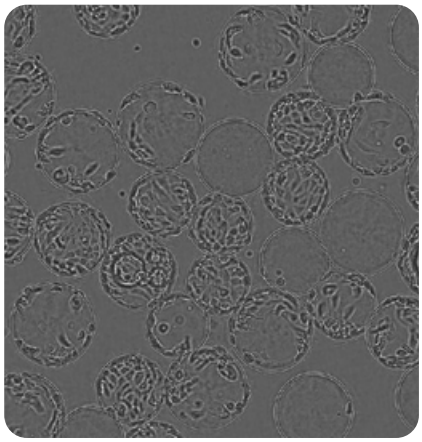
YOUR INSTRUMENT
(microscope / analyser)

→

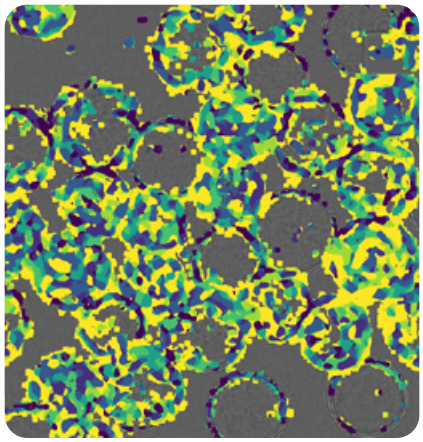
AI SCAN
reads & grades, on-premise)

→

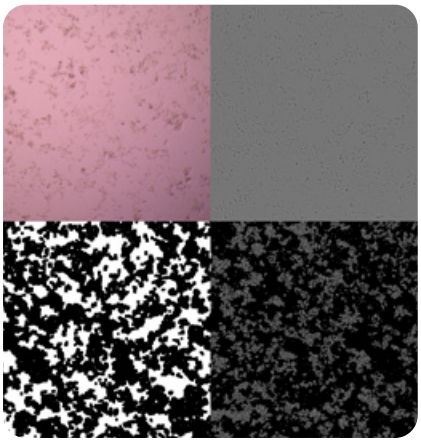
LIMS / MIS
(result + confidence value)



RAW IMAGE



AI ANALYSIS

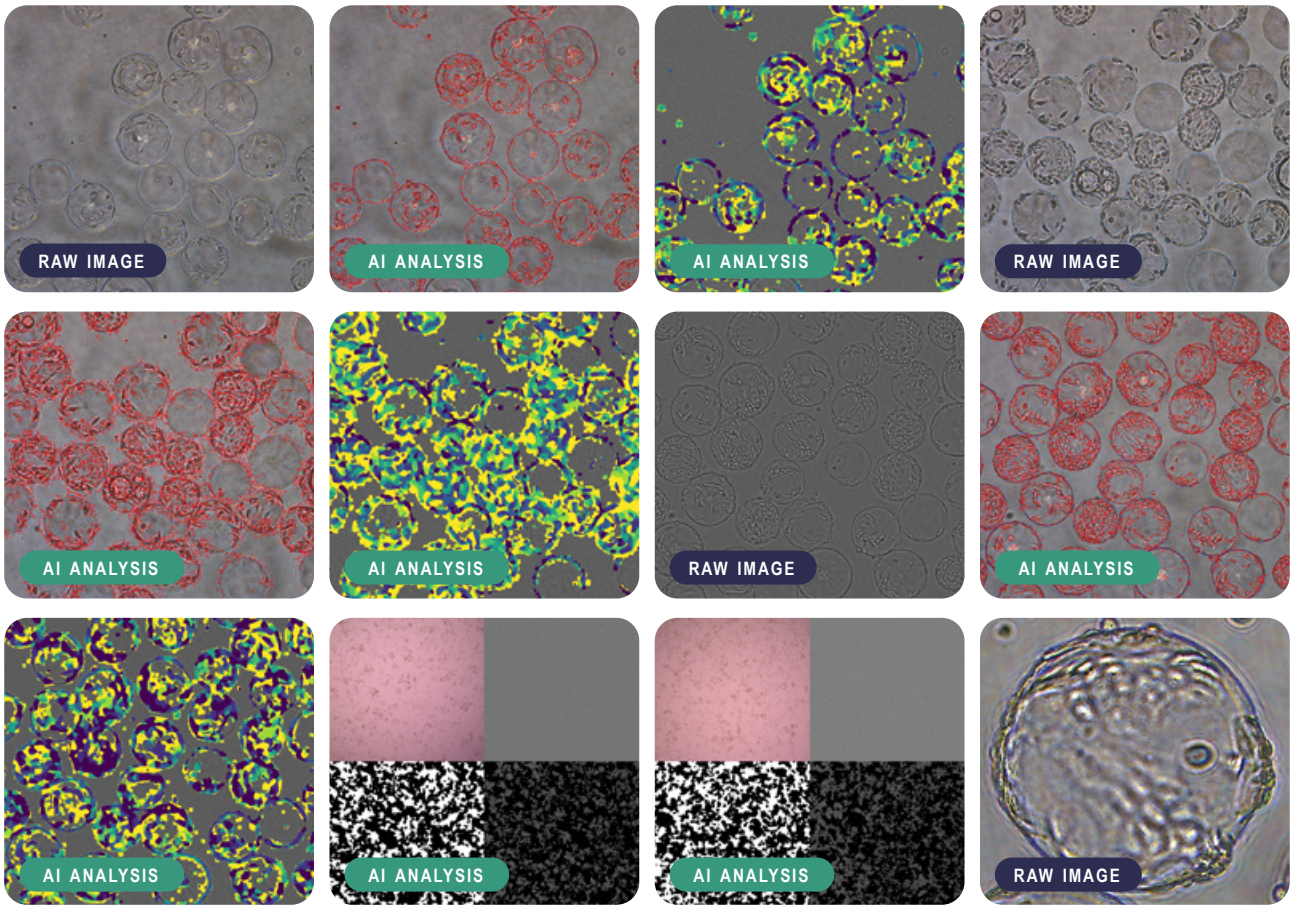


AI ANALYSIS

ALREADY DELIVERED

Work completed, not imagined

Cell culture	Microcarrier bead confluence from two focal planes – supporting harvest timing.
Classification	Parasite species classification and sporulation staging for a global animal-health company.
Own system	Our AI-driven motorised microscope: blood smears, urine sediment and scrapings, end to end.



DO YOU HAVE A MANUAL GRADING TASK? SHOW IT TO US.

Start with a free feasibility opinion

Bring your images or data. We tell you what is measurable, at what accuracy, what data is needed, and the steps to build it – a written opinion within two weeks, no commitment.

CONTACT
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IMAGES IN. NUMBERS IN. DECISIONS OUT.