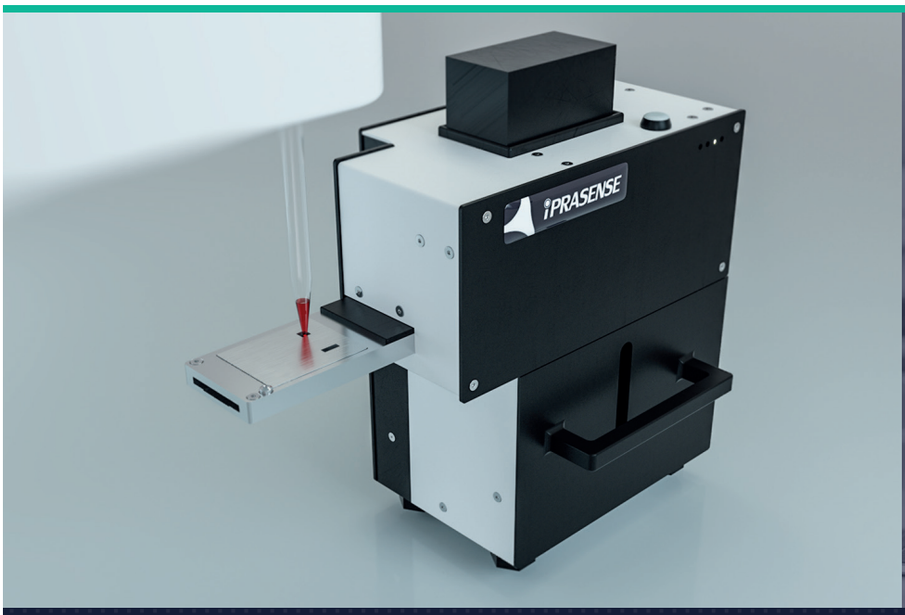
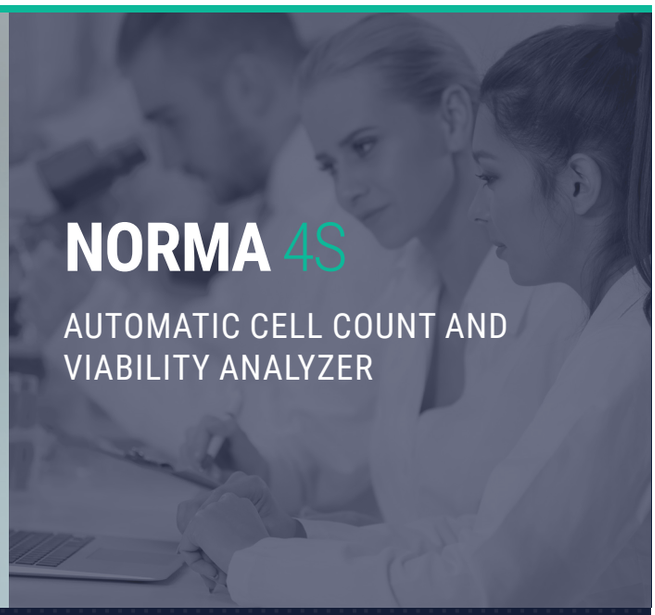
iPRASENSE

Cell Culture Monitoring Instruments





NORMA 4S

AUTOMATIC CELL COUNT AND VIABILITY ANALYZER

SAMPLE PREPARATION FREE

SHORT TIME RESULTS

HIGH REPEATABILITY

LOW SAMPLE VOLUME

Mammalian Cell Culture - Cell Line - Media/Process Development - DRUG Discovery

IPRASENSE reinvents the automated cell counter and viability analyzers. Our unique label-free Imaging Technology provides extremely fast cell count and viability from a few µl sample volume of your cell suspension. The unmatched repeatability directly results from the extremely large field of view of the single analyzed image, together with the sample preparation free method (no dilution, no label like trypan blue).
The **NORMA** 4S is ready for fast, simple and 100% automatic solutions on your parallel bioreactors.

Several thousands of cells counted within a single image gives unmatched rapidity and repeatability

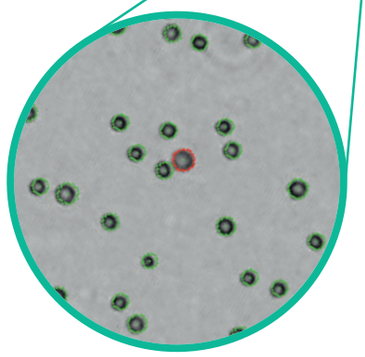


Image zoom of CHO cells with overlapped mask of cell detection and viability determination
Green circles (viable cells)
Red circles (dead cells)

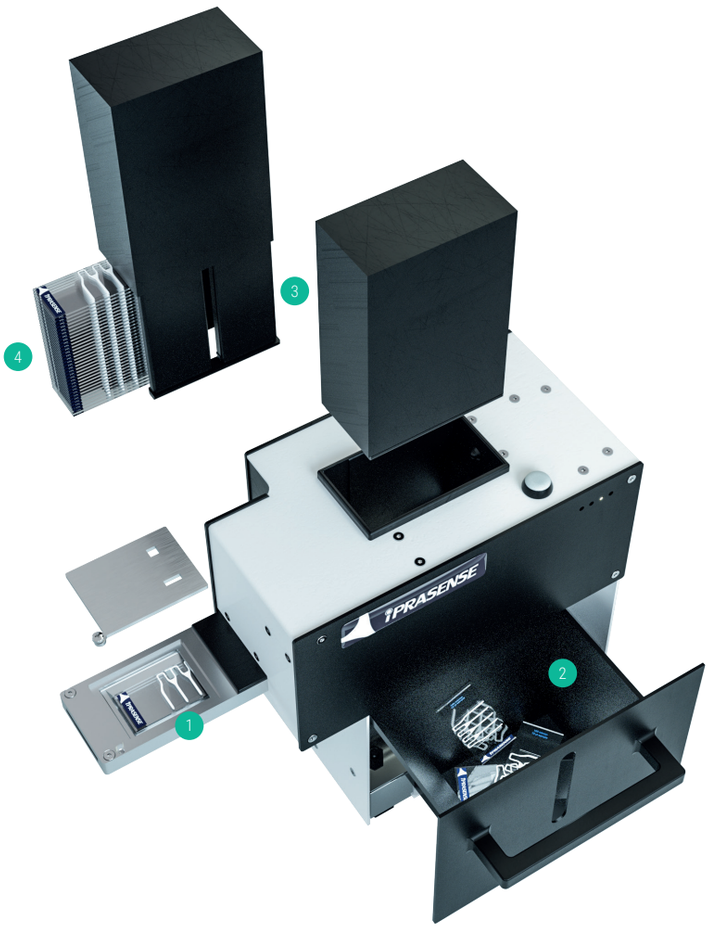
FEATURES

- ✓ Automatic cell count and viability
- ✓ Maintenance free
- ✓ Match with reference trypan blue method
- ✓ Results in 15 seconds

READY FOR SEAMLESS INTEGRATION IN HIGH THROUGHPUT AUTOMATED MICRO BIOREACTOR

iPRASENSE

Cell Culture Monitoring Instruments



THE **NORMA** 4S CELL COUNTER FITS PERFECTLY WITH APPLICATIONS REQUIRING AUTOMATION AND HIGH THOUGHPUT

The **NORMA** 4S is a fully automatic cell counter for high throughput cell culture monitoring. It rapidly measures cell concentration and viability without repeatability compromise. Each of the 3 µl samples is analyzed undiluted. The NORMA 4S is ready for receiving the sample from the robotic arms of a parallel micro bioreactor, an automatic sampler or even a manual pipette.

The **NORMA** 4S works with precise calibrated measurement chambers 1 constructed on single-use slides 2. The refillable slide cartridge 3 is ready to run 144 samples 4 without user interaction.

DONE

INTEGRATION IN HIGH THROUGHPUT AUTOMATED MICRO BIOREACTOR

TECHNICAL SPECIFICATIONS

Cells	> Mammalian cells
Concentration range	> 10^4 – 4.10^7 cell/ml
Cell size range	> 7-50 µm
Sample volume	> 3 - 13 µl
Viability Determination	> Light diffraction
Counting time	> 15 seconds
Image Format	> .png
Dimensions	> 30 x 11.5 x 25 cm
Weight	> 4 kg
Enclosure	> Stainless steel, POM
Power supply	> 24 V DC (110 - 240 V AC power converter included)

CELL LINES EXPERIENCE WITH NORMA

CHO	JURKAT
HEK 293	YT
NIH 3T3	PC12
HELA	VERO

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