

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 μ l 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

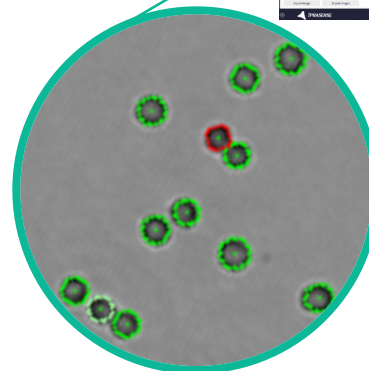
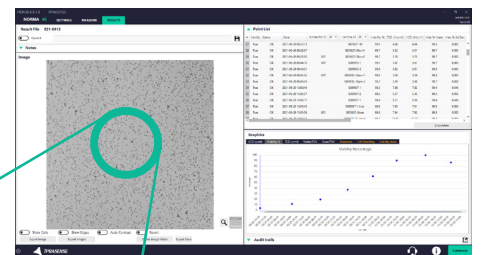


Image zoom of CHO cells with overlapped mask of cell detection and viability determination
Green circles (viable cells)
Red circles (dead cells)

FEATURES

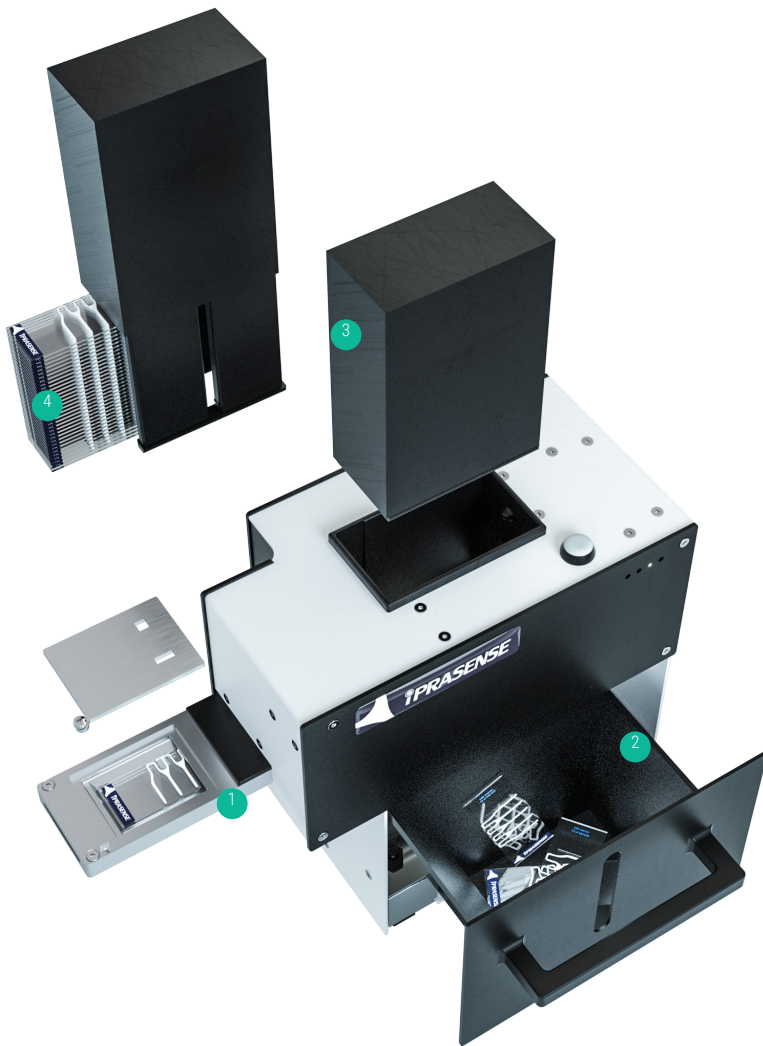
- ✓ Automatic cell count and viability
- ✓ Maintenance free
- ✓ Match with reference trypan blue method
- ✓ Results in 15 seconds

READY FOR SEAMLESS INTEGRATION IN HIGH THROUGHPUT AUTOMATED MICRO BIOREACTOR

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

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 μ l 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.



INTEGRATION IN HIGH THROUGHPUT
AUTOMATED MICRO BIOREACTOR

For research use only (RUO). Not for use in diagnostic procedures.

TECHNICAL SPECIFICATIONS

- Cells** > Mammalian cells
- Concentration range** > 10^4 - $4 \cdot 10^7$ cell/ml
- Cell size range** > 7-50 μ m
- Sample volume** > 3-13 μ l
- Viability determination** > Light diffraction
- Counting time** > 10 to 15 seconds
- Numbers of sample** > 4 samples/slide (maximum 36 slides)
- Image and Video format** > .png, .bmp, .tiff, .raw, .avi
- Dimensions** > 30 x 11,5 x 25 cm
- Weight** > 4 kg
- Power supply** > 24 V DC (110-240 V AC power converter included)
- Pharmaceutical industries** > - 21 CFR part 11
- IQ/OQ

CELL LINES EXPERIENCE WITH NORMA

CHO	JURKAT
HEK 293	YT
NIH 3T3	PC12
HELA	VERO