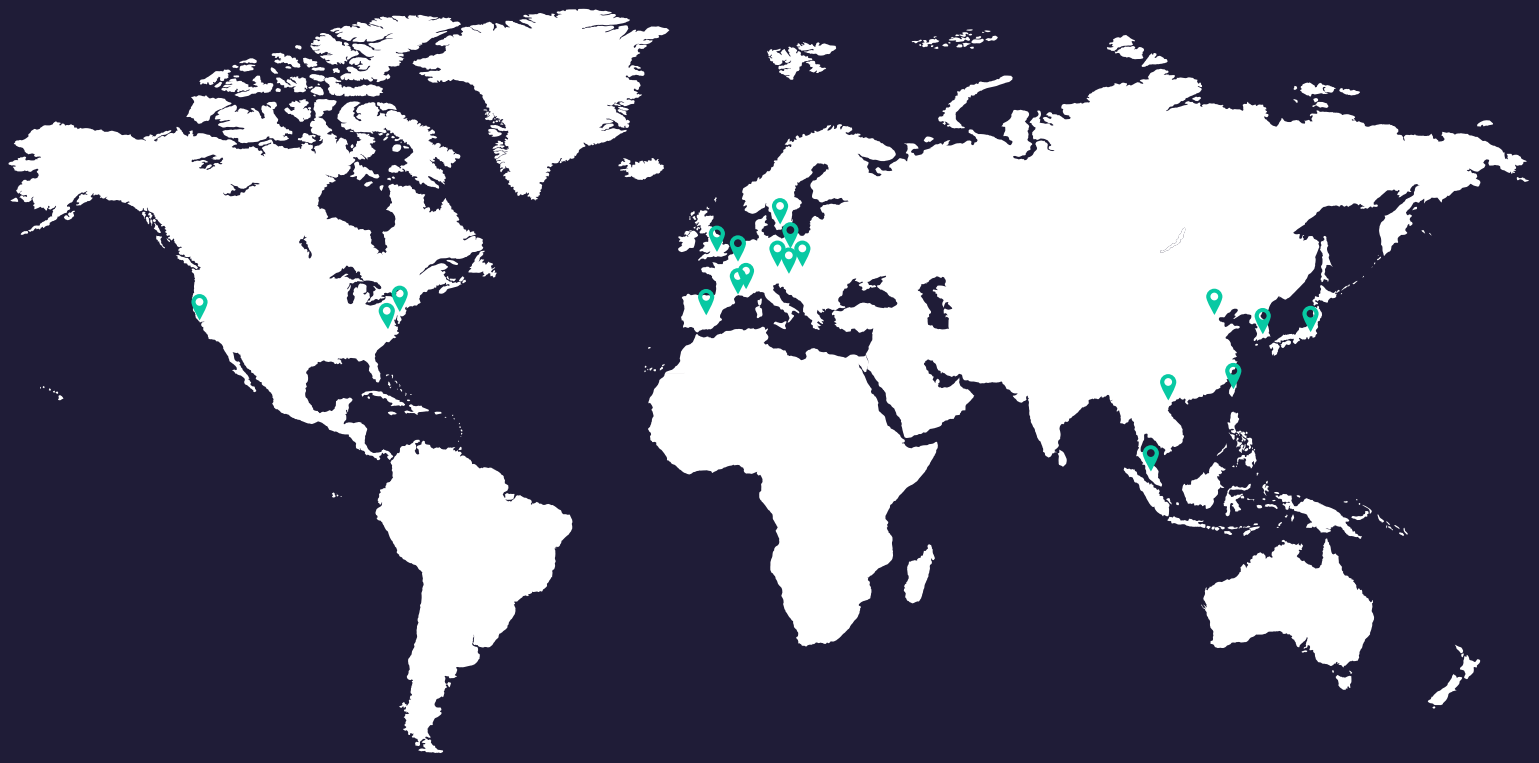
iPRASENSE

Cell Culture Monitoring Instruments

NORMA
Automated Cell Counters & Cell Viability Analyzers

iPRASENSE



We are here

Discover our other range

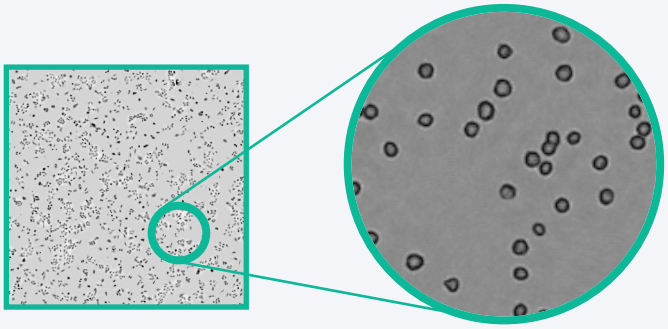
CYTONOTE

Live Cell Imaging Inside the Incubator

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).



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

SAMPLE PREPARATION FREE

SHORT TIME RESULTS

HIGH REPETABILITY

LOW SAMPLE VOLUME

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

NORMA XS

Fast, simple & robust solutions for your routine lab cell counts.

NORMA 4S

Ready for fast, simple & 100% automatic solutions on your parallel bioreactors.

NORMA HT

Fast, simple & robust solutions for your routine lab cell counts and your high throughput platforms.

APPLICATIONS

- VIABILITY
- RATIO ASPECTS
- GROWTH CURVES
- MATCH WITH REFERENCE TRYPAN BLUE METHOD
- AUTOMATIC CELL COUNT
- CELL SIZE DISTRIBUTION

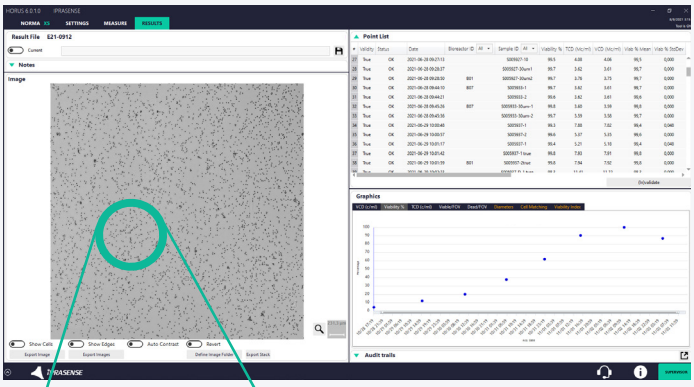
For research use only (RUO). Not for use in diagnostic procedures.

NORMA XS

Cell Counters & Viability Analyzers

The **NORMA** XS is the most simple automatic benchtop. It use the new and revolutionary lensless imaging technology to measure total and viable cell count and determine viability. The **NORMA** XS provides an unmatched accuracy and precision thanks to its wide field of view that allows counting several thousands of cells within a single sample image.

The measurement results are returned by the **HORUS** software. Each parameter is visible on a simple graphical interface with the possibility to follow several running cultures on user friendly charts.



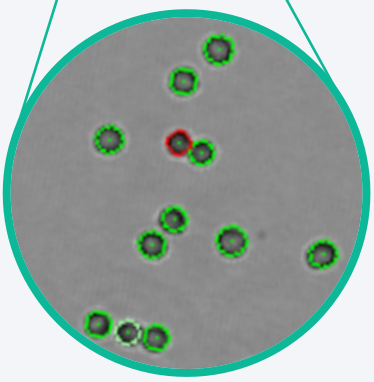


Image zoom of CHO cells with overlapped mask of cell detection and viability determination.
Green circles (Viable cells)
Red circles (Dead cells)

ABSOLUTE EASE OF USE

1

Take your unprepared sample.
(Label free, Undiluted)

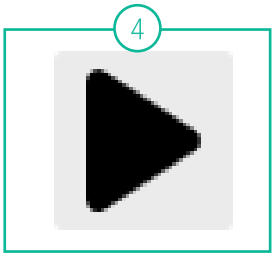
2

Load the sample into the slide chamber.

3

Insert the slide into the **NORMA** XS.

4



Click " ▶ " in **HORUS** Software for launch measure.

Cells	Mammalian Cells
Concentration range	10^4-4.10^7 cell/ml
Cell size range	7 - 50 µm
Sample volume	3 - 13 µl
Numbers of sample	4 samples/slide - 100 samples/box
Viability determination	Light diffraction
Counting time	10 to 15 seconds
Image	.PNG / .BMP / .TIFF / .RAW / .AVI
Dimensions	15 x 7,5 x 10,5 cm
Enclosure	Stainless steel, POM,
Weight	1 kg
Power supply	USB
Pharmaceutical industries	21 CFR part 11 & IQ/OQ
Integration	No

CELL LINES EXPERIENCE WITH **NORMA**

MAMMALIAN CELLS

CHO	JURKAT
HEK 293	YT
NIH 3T3	PC-12
HELA	VERO

INSECT CELLS

SF9	HIGH FIVE

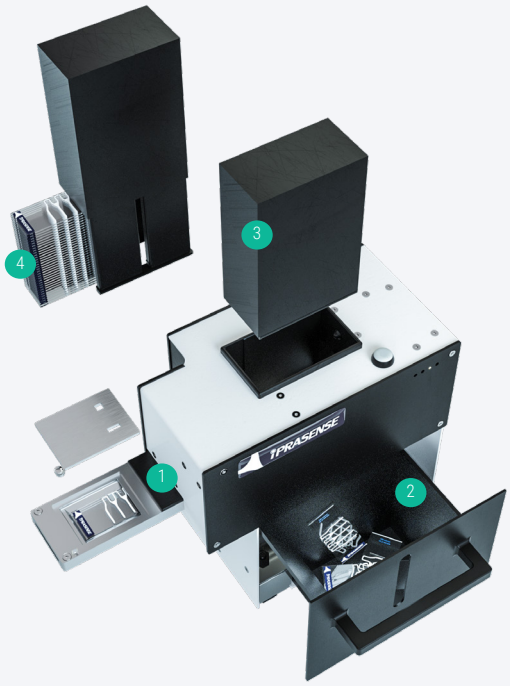
TECHNICAL SPECIFICATIONS

NORMA 4S

Cell Counters & Viability Analyzers

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 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.

Ambr15® integration

DONE

INTEGRATION IN HIGH THROUGHPUT
AUTOMATED MICRO BIOREACTOR

TECHNICAL SPECIFICATIONS

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Concentration range	10^4-4.10^7 cell/ml
Cell size range	7 - 50 µm
Sample volume	3 - 13 µl
Numbers of sample	4 samples/slide - 144 samples/box
Viability determination	Light diffraction
Counting time	15 seconds
Image	.PNG / .BMP / .TIFF / .RAW / .AVI
Dimensions	30 x 11,5 x 25 cm
Enclosure	Stainless steel, POM,
Weight	4 kg
Power supply	USB + 24 V DC (110 - 240 V AC)
Pharmaceutical industries	21 CFR part 11 & IQ/OQ
Integration	Ambr15®

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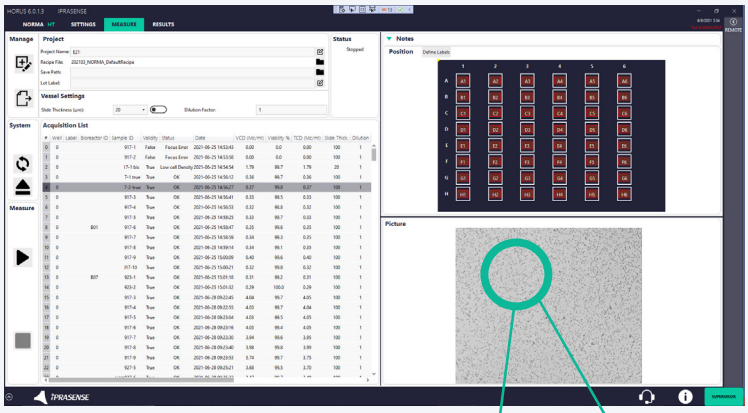
NORMA HT

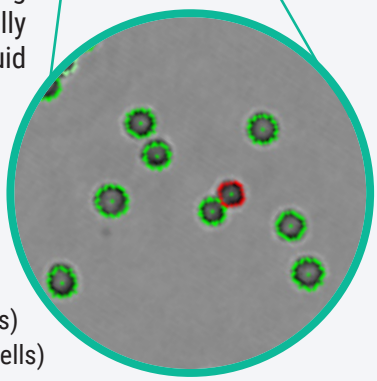
Cell Counters & Viability Analyzers

THE NORMA HT CELL COUNTER IS DEDICATED TO CELL COUNT AND VIABILITY FOR MULTIWELL PLATES CULTURES

The **NORMA** HT cell counter is the most simple automatic benchtop cell counter for high throughput parallel culture monitoring. It rapidly measure viable cell count and viability on up to 24 samples. Each samples is analyzed undiluted and several thousands of cells are counted within a single image.



Each sample can be loaded manually to the 24 chambers counting slide with standard mono or multi channel pipettes or the complete sampling and counting procedure can be fully automated / integrated with liquid handlers and robotic systems.



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Green circles (Viable cells)
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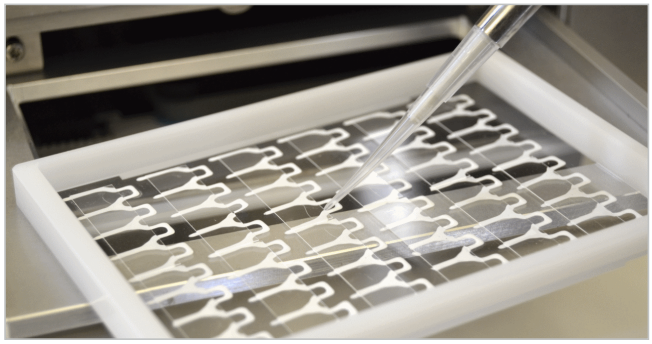
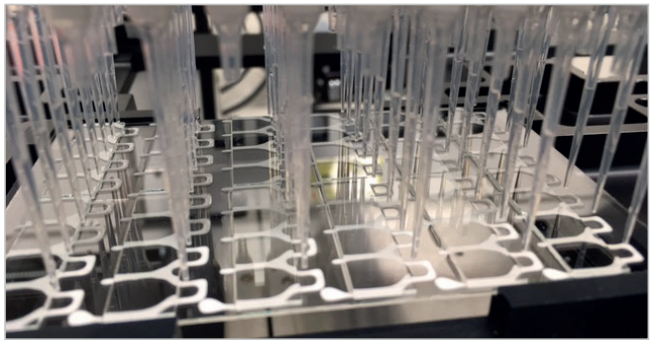
HOW TO USE IT ?





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Numbers of sample	4 samples/slide - 100 samples/box
Viability determination	Light diffraction
Counting time	15 seconds
Image	.PNG / .BMP / .TIFF / .RAW / .AVI
Dimensions	29,5 x 26,5 x 29,5 cm
Enclosure	Stainless steel,
Weight	12 kg
Power supply	100 - 240 V AC + USB
Pharmaceutical industries	21 CFR part 11 & IQ/OQ
Integration	TECAN & Biomek

CELL LINES EXPERIENCE WITH **NORMA**

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CELL LINES EXPERIENCE WITH NORMA

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NIH 3T3	PC-12
HELA	VERO
SF9	HIGH FIVE

NORMA HT

Cells	Mammalian Cells
Concentration range	10^4-4.10^7 cell/ml
Cell size range	7 - 50 µm
Sample volume	2 - 13 µl
Numbers of sample	24 samples/slide - 480 samples/box
Viability determination	Light diffraction
Counting time	15 seconds
Image	.PNG / .BMP / .TIFF / .RAW / .AVI
Dimensions	29,5 x 26,5 x 29,5 cm
Enclosure	Stainless steel,
Weight	12 kg
Power supply	100 - 240 V AC + USB
Pharmaceutical industries	21 CFR part 11 & IQ/OQ
Integration	TECAN & Biomek

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