

# NORMA HT

HIGH THROUGHPUT CELL  
COUNT AND VIABILITY  
ANALYZER



**SAMPLE  
PREPARATION FREE**



**SHORT TIME  
RESULTS**



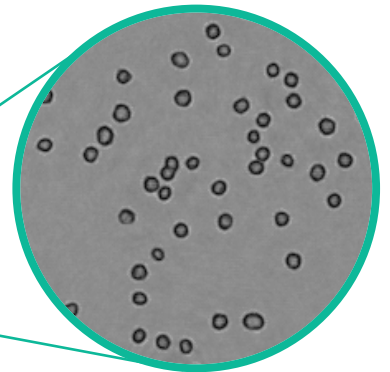
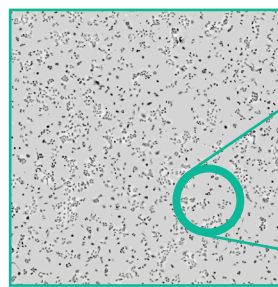
**HIGH  
REPEATABILITY**



**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  $\mu\text{l}$  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 HT** offers fast, simple and robust solutions for your routine lab cell counts and your high throughput platforms.



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

**HIGH THROUGHPUT AT  $\mu\text{l}$  SCALE  
DESIGNED FOR CELL COUNT  
OF SMALL SCALE PARALLEL CULTURES  
IN MICROPLATES**

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

## FEATURES

- ✓ Automatic cell count and viability
- ✓ Measures up to 48 samples in PARALLEL
- ✓ 3-8  $\mu\text{l}$  sample volume
- ✓ Label free
- ✓ Match with reference trypan blue method



## THE NORMA HT CELL COUNTER IS DEDICATED TO CELL COUNT AND VIABILITY FOR 96 MICROPLATES AND PARALLEL BIOREACTORS

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 48 samples. Each of the 3  $\mu$ l samples is analyzed undiluted and several thousands of cells are counted within a single image.

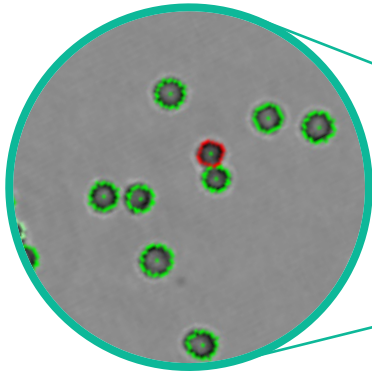
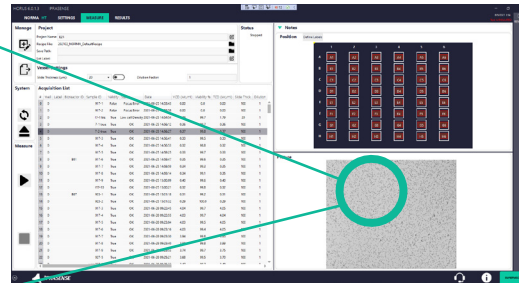


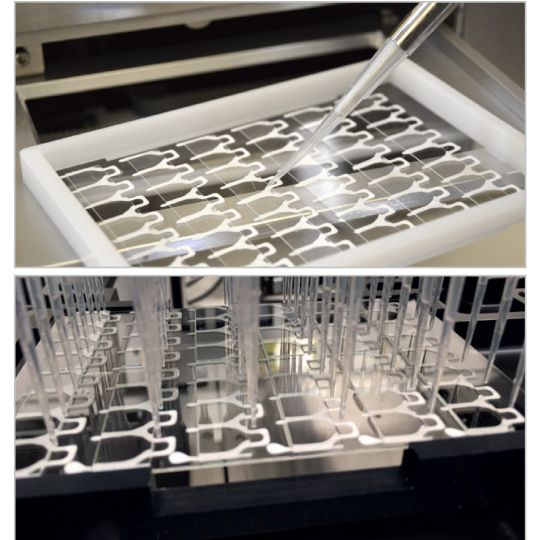
Image zoom of CHO cells with overlapped mask of cell detection and viability determination.

**Green circles** (viable cells)  
**Red circles** (dead cells)



The measurement results are returned by the HORUS software. Each parameter is visible on a simple graphical interface with the possibility to follow up to 96 running cultures on user friendly charts.

- > **AUTOMATIC CELL COUNT**
- > **VIABILITY**
- > **CELL SIZE DISTRIBUTION**
- > **RATIO ASPECTS**
- > **GROWTH CURVES**



Each sample can be loaded manually onto the 48 chambers counting slide with standard mono or multichannel pipettes or the complete sampling and counting procedure can be fully automated/integrated with liquid handlers and robotic systems.

## TECHNICAL SPECIFICATIONS

- Cells** > Mammalian cells
- Concentration range** >  $10^4$ - $4 \cdot 10^7$  cell/ml
- Cell size range** > 7-50  $\mu$ m
- Sample volume** > 3-13  $\mu$ l
- Viability determination** > Light diffraction
- Counting time** > 10 to 15 seconds
- Numbers of sample** > 24 samples/slide
- Image and Video format** > .png, .bmp, .tiff, .raw, .avi
- Dimensions** > 28 x 23 x 21 cm
- Weight** > 12 kg
- Power supply** > 110-240 V AC
- Pharmaceutical industries** > - 21 CFR part 11  
> - IQ/OQ

### CELL LINES EXPERIENCE WITH NORMA

CHO	JURKAT
HEK 293	YT
NIH 3T3	PC12
HELA	VERO