



## CYTONOTE 1W

TIME-LAPSE IMAGES OF CELLS AND REAL TIME ANALYSIS FROM INSIDE YOUR INCUBATOR



**LABEL FREE & HIGH CONTRAST**



**ALWAYS IN FOCUS**



**SETTINGS FREE**

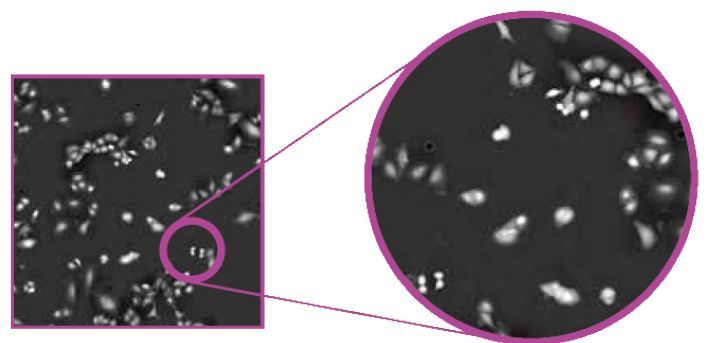


**HUGE FIELD OF VIEW**

Adherent cell culture - Cell based assays - Stem cell research - Drug discovery - Cell therapy

Our innovative instruments open new perspectives into Live Cell imaging and cell kinetic analysis. IPRASENSE's label-free time-lapse Imaging Technology offers a versatile solution for monitoring cell culture inside your incubator. The unmatched extra large field of view and the insensitivity to focus provide a robust real-time analysis of your adherent cells in any Petri dishes, T-Flask, slides or microchips.

The **CYTONOTE 1W** product range simplifies live cell imaging technique and transforms the complex and expensive microscope into a cost-effective solution.



**THE CYTONOTE IS THE IDEAL SOLUTION FOR YOUR LIVE CELL BASED ASSAYS**

### APPLICATIONS

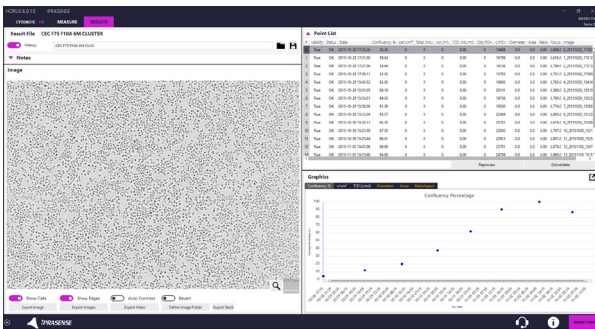
- ✓ Cell Proliferation
- ✓ Cell Migration
- ✓ Cell Morphology
- ✓ Cell Tube Formation

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



The **CYTONOTE 1W** is the most simple live cell-imaging system designed for recording cell movies and analyzing a variety of cell culture from inside the incubator. The innovative and patented « lensless imaging » technology pushes the boundaries of microscopy with its super wide Field of View and its capability to capture and analyze precisely several thousands of cells without any focus and brightness settings.

The image analysis and results from the Cytonote are performed from the HORUS dedicated software. HORUS is application oriented, it provides automatic cell count, quantitative confluence determination, cell size or cell tracking. Full field images (30 mm<sup>2</sup>) of the samples are stored and can be accessed and zoomed at any time. It is designed to monitor the 6 sensors simultaneously or distinctly for 6 parallel or independent cell cultures.



**HORUS** Software for recording and analyzing the cell culture from a computer

- > **CELL MIGRATION** CHEMOTAXIS, WOUND HEALING ON HIGH STATISTICAL NUMBER OF CELLS AND VERY WIDE AREA
- > **CELL PROLIFERATION** THROUGH CELL COUNT AND QUANTITATIVE CONFLUENCE DETERMINATION
- > **ANGIOGENESIS** THE VERY WIDE AREA ALLOWS TO OBSERVE THE FULL ANGIOGENESIS PROCESS WITH HIGH LEVEL OF DETAILS

## TECHNICAL SPECIFICATIONS

- Cells** > Eucaryotic cells: adherent monolayer, suspension cell at bottom of culture ware or in micro-slides, 3D spheroids
- Media** > Liquid or semi-solid (collagen)
- Culture vessels** > Standard plastic petri dishes, culture flasks, multiwell plates, max height 55 mm
- Resolution** > 1 micron
- Field of view** > 29,4 mm<sup>2</sup>
- Working distance** > 0 to 5 mm
- Image rate** > 1,5 image/min
- Light source** > LED
- Sensor** > CMOS 10 Mpxl
- Dimensions** > 12 x 11 x 10 cm
- Weight** > 1 kg
- Power supply** > USB
- Pharmaceutical industries** > - 21 CFR part 11  
- IQ/OQ