iPRASENSE

Cell Culture Monitoring Instruments

LENSLESS IMAGING TECHNOLOGY

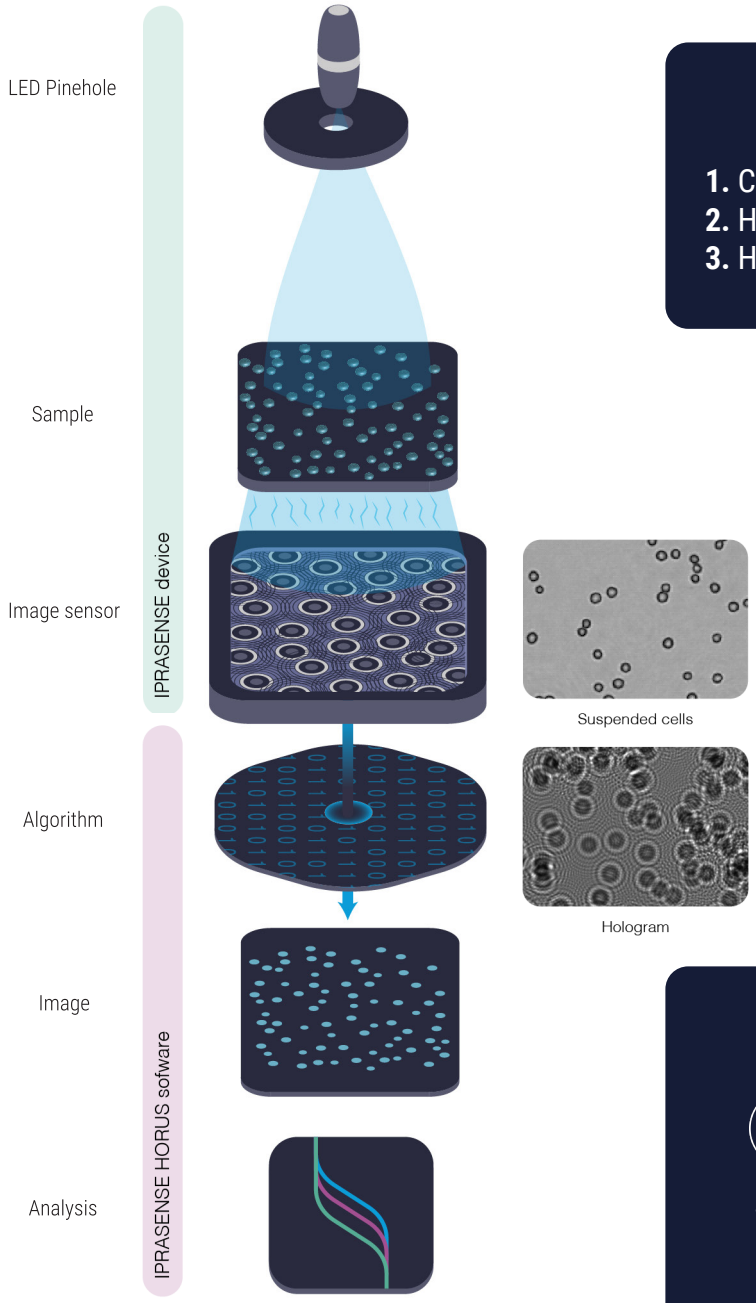

IMAGE SETUP

1. Cells diffract light from a LED source
2. Holograms are created and recorded by a CMOS Sensor
3. Holographic algorithms reconstruct the microscopy image

NORMA

CELL COUNT & VIABILITY ANALYSIS

1. Cell concentration is determined from the image cell count

2. Living and Dead cells are distinguished by their diffraction properties

3. Viable Cell Density and % Viability are calculated

BENEFITS

- Short Time
- No Preparation
- Low Volume
- High Repetability

BREVETS

FR3093107 : Procédé de caractérisation d'une particule à partir d'un hologramme.

FR3049348 : Procédé de caractérisation d'une particule dans un échantillon.

FR3029632 : Procédé d'obtention d'une image d'un échantillon, et système associé d'imagerie sans lentille.

FR3036801 : Sonde immergeable à site de mesure de taille variable.