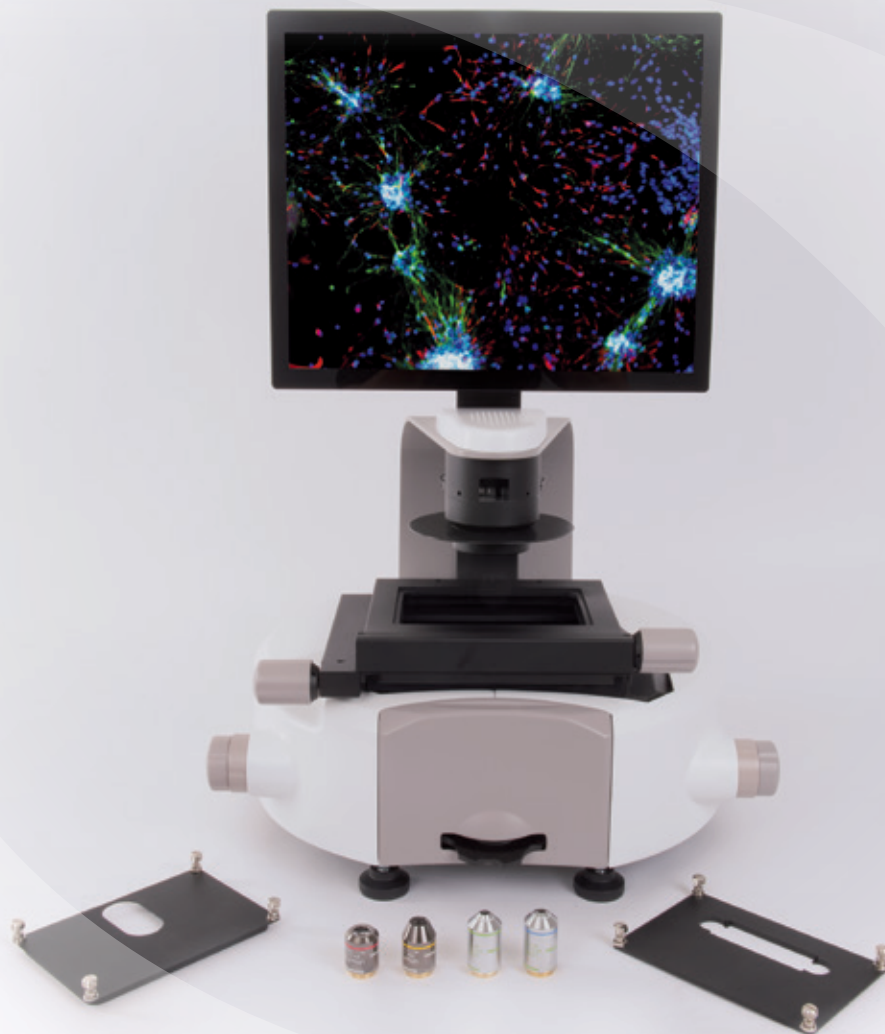


# Smart Cell Imaging System



- **High sensitivity** in fluorescence
- **Embedded cell culture applications** for accurate results
- **Smart interface** to save and share results!



# INCELLIS

## New generation of cell imager

InCellis is a unique cell imager developed to generate publication-quality images of cells, on tissue slide or in cell culture.

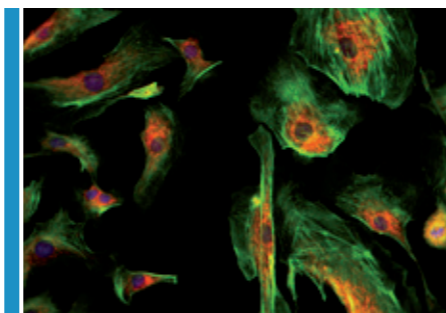
The InCellis provides coloured images in brightfield, phase contrast and fluorescence. In a minute, on-board applications allow users to determine cell transfection efficiency, cell culture confluency or to get multi-colour fluorescence images on the bench.

Cell biologists can easily choose the best sample to use for further analysis.

### MULTI-CHANNEL CELLS IMAGING

- **3 clicks** to get high resolution images
- **High sensitivity** with unique Low Light CMOS sensor
- **Up to 4 fluorescence channels** overlay

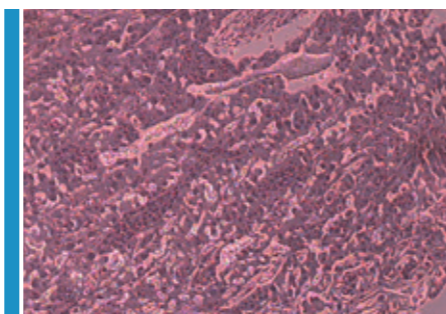
*FluoCells® Prepared Slide #1 (BPAE cells with MitoTracker® Red CMXRos, Alexa Fluor® 488 Phalloidin, and DAPI) imaged with 40X LWD FI/Ph objective*



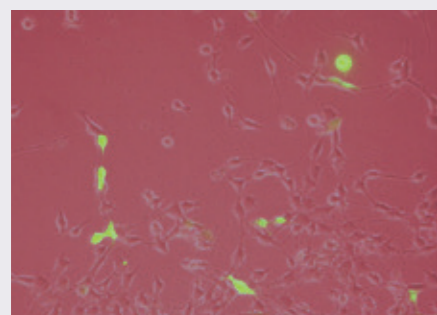
### TRUE COLOURED TISSUE SLIDE IMAGE

- **Choose** between brightfield and phase contrast
- **Explore the sample** with the right magnification (4X to 60X)
- **Get image** with publication quality

*Slide of mouse placenta (PAS, HE and MAS staining), imaged with 20X LWD FI/Ph objective*



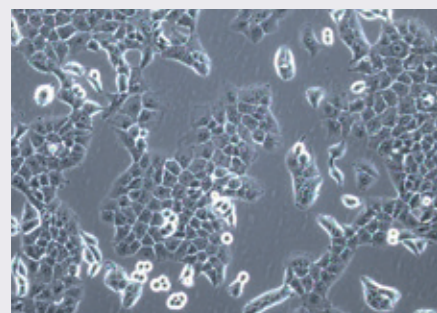
## ► Embedded cell culture applications



### TRANSFECTION EFFICIENCY "IN THE FLASK"

- **Automatic overlay** of fluorescent and brightfield image
- **Automatic transfection** efficiency calculation
- **Large field of view**

*NIH3T3 transfected cell culture. Overlay of color phase contrast and GFP channel, imaged with 20X LWD FI/Ph objective*

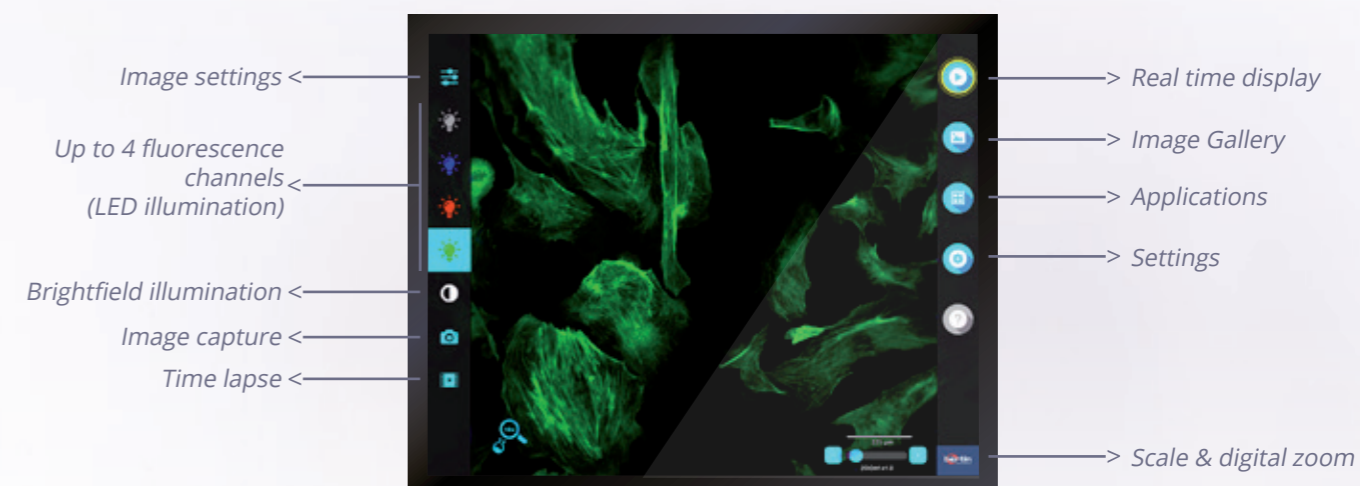


### CELL PROLIFERATION STUDY

- **Automatic cell culture** confluency calculation
- **Save all data you need:** images and values
- **Make a movie** with time lapse imaging

*A549 cell culture imaged in phase contrast with 20X LWD FI/Ph objective*

## ► User friendly interface & touch screen

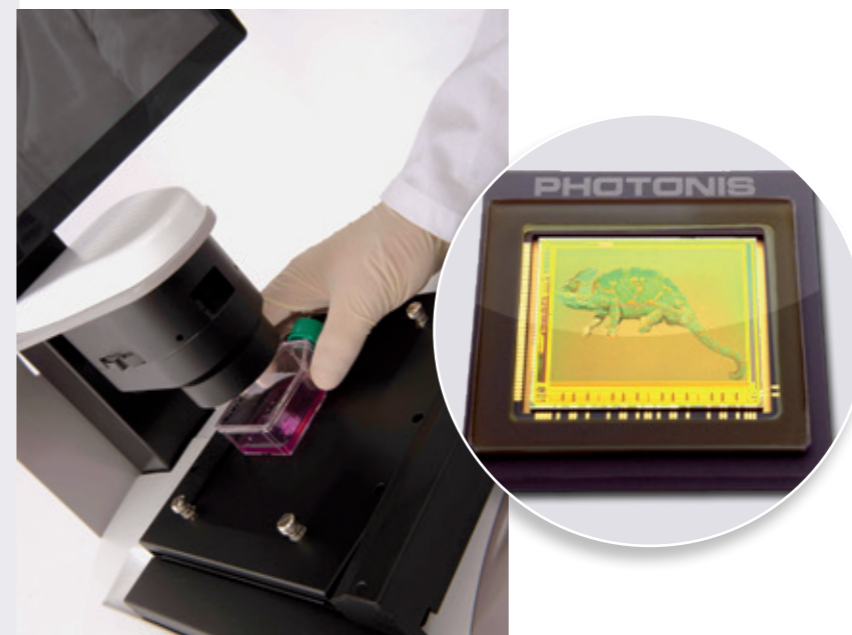


**OBTAIN HIGH RESOLUTION IMAGES OVERLAY IN 3 CLICKS!**

## ► Unique Low Light CMOS colour sensor

- **Inherent signal-to-noise ratio (SNR)**, read-out noise below 4 e- without cooling
- **Quantum efficiency >60%** in blue, green and red colours
- **Licensed Kameleon technology**

POWERED BY **PHOTONIS**



## Technical features

LOW LIGHT CMOS COLOUR SENSOR

ON-BOARD AUTOMATED CELL CULTURE APPLICATIONS

4 FLUORESCENCE CHANNELS

CHOICE OF PATENTED FLUORESCENT LIGHT MODULES

6 POSITIONS OBJECTIVE TURRET

LARGE FIELD OF VIEW

TOUCH SCREEN MONITOR

NETWORK COMPATIBILITY

EMBEDDED TECHNICAL SUPPORT:  
- FLM DYE COMPATIBILITY GUIDE  
- OBJECTIVE USER GUIDE

DEDICATED VESSEL HOLDERS

## Specifications

<b>Light source</b>	Interchangeable InCellis Fluorescent Light Modules with Adjustable-intensity LED (>50,000-hour life per light cube)
<b>Contrast methods</b>	Transmitted light (brightfield and phase contrast)
<b>Objective turret</b>	6-positions, front wheel control
<b>Fluorescence channels</b>	Motorized 4 fluorescent channels, software controlled, see below fluorescent light module available.
<b>Condenser</b>	Including 4 positions, with brightfield and phase-contrast annuli
<b>Stage</b>	Mechanical stage with X-Y axis fine-positioning controls, Z axis fine and coarse adjustments Interchangeable vessel holders available, see accessories table
<b>LCD display</b>	17" high-resolution touch screen (1280x1024 pixels) with adjustable tilt (waterproof, IP25 requirement)
<b>Camera</b>	Low Light colour CMOS Sensor, 1280x1024 pixels
<b>Exported formats</b>	24-bit colour TIFF or BMP Movie: AVI
<b>Output</b>	3 USB ports
<b>InCellis Applications</b>	Transfection efficiency, Cell culture confluency, multi-colour fluorescent image overlay
<b>Power supply</b>	AC/DC 100-240 V, 100 W, 12 V, 8.33 A
<b>Operating Power</b>	100-240 V, 1.5 A, 50/60 Hz
<b>Operating environment</b>	5-40°C, 20-95%
<b>Dimensions</b>	H: 635 mm / D: 420mm / W: 420mm
<b>Weight</b>	24 kg


## Fluo Light Modules

<b>DAPI F.L.M</b>	Excitation 365/35, Emission 450/60
<b>GFP F.L.M</b>	Excitation 475/20, Emission 518/32
<b>RFP F.L.M</b>	Excitation 529/45, Emission 595/60
<b>TX-RED F.L.M</b>	Excitation 560/55, Emission 645/75
<b>CY5 F.L.M</b>	Excitation 630/50, Emission 695/55

## Objectives

Cell culture in brightfield/phase contrast/fluorescence	
<b>UPLFLN4X/0.13</b>	4X WD: 17 mm - N.A.: 0.13
<b>UPLFLN10X/2</b>	10X WD: 10 mm - N.A.: 0.3
<b>LCACHN-PH20X/0.4</b>	20X WD: 3.2 mm - N.A.: 0.4
<b>LCACHN-PH40X/0.55</b>	40X WD: 2.2 mm - N.A.: 0.55
Tissue slide in brightfield/phase contrast/fluorescence	
<b>UPLFLN4XPH/0.13</b>	4X WD: 17 mm - N.A.: 0.13 suitable for any cover slip
<b>UPLFLN10XPH/2</b>	10X WD: 10 mm - N.A.: 0.3 suitable for any cover slip
<b>UPLFLN20XPH/0.5</b>	20X PH1 WD: 2.1 mm - N.A.: 0.5 cover correction of 0.17 mm
<b>UPLFLN40XPH/0.75</b>	40X PH2 WD: 0.51 mm - N.A.: 0.75 cover correction of 0.17 mm
Tissue slide & Cell culture high in performance in fluorescence	
<b>LUCPLFLN20X/0.45</b>	20X WD: 6.6-7.8 mm - N.A.: 0.45 cover correction of 0-2 mm
<b>LUCPLFLN40X/0.6</b>	40X WD: 2.7-4 mm - N.A.: 0.6 cover correction of 0-2 mm
<b>LUCPLFLN60X/0.7</b>	60X WD: 1.5-2.2 mm - N.A.: 0.7 cover correction of 0.1-1.3 mm
<b>UPLFLN60X/0.9</b>	60X Oil immersion WD: 0.12 mm - N.A.: 1.25 cover correction of 0.17 mm

## Accessories

	2 slides 25 x 75mm InCellis Holder
	Greiner T75 InCellis Holder
	One 100mm Petri Dish InCellis Holder
	Four 35mm Petri Dish InCellis Holder
	Universal InCellis Holder