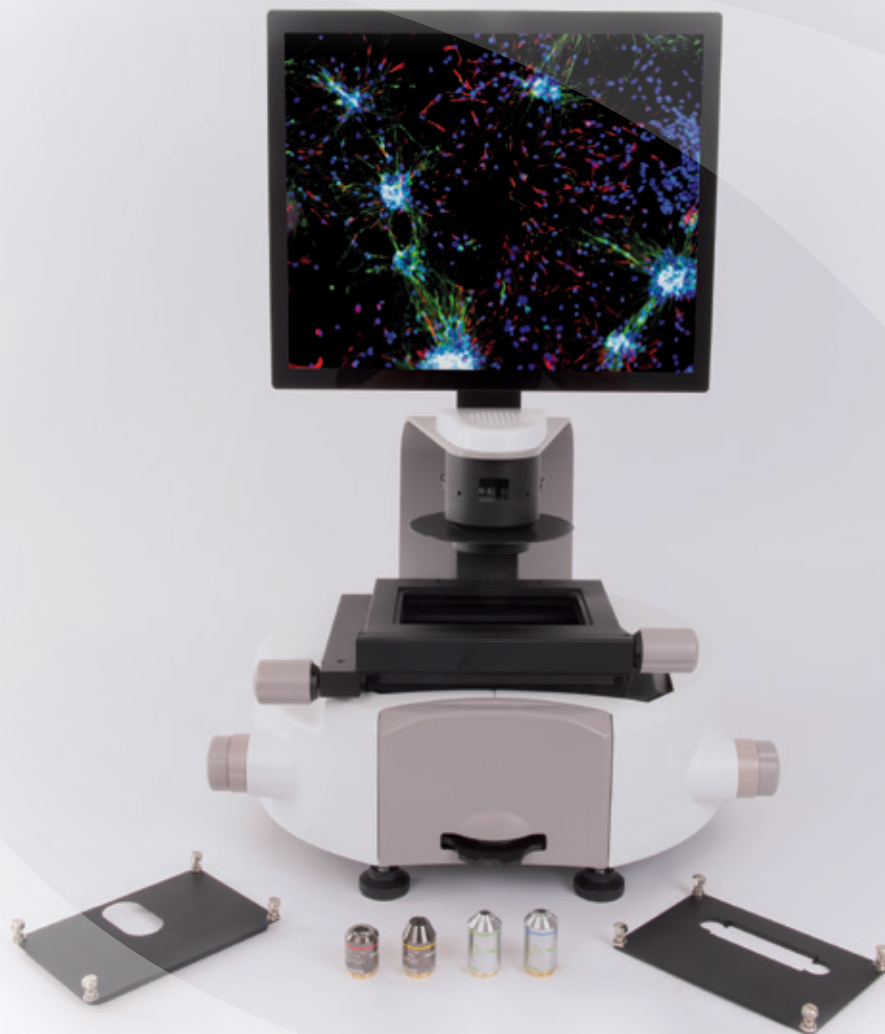


Smart Cell Imaging System



- **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.

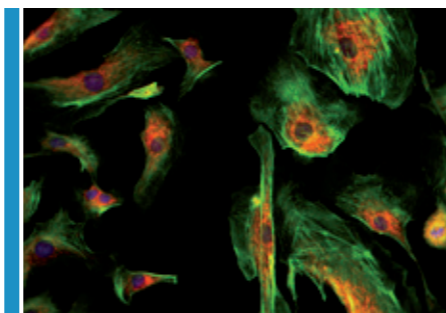
The InCellis provides coloured images in brightfield, phase contrast and fluorescence. In a minute, on-board applications allow users to determine cell transfection efficiency, cell culture confluency or to get multi-colour fluorescence images on the bench.

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

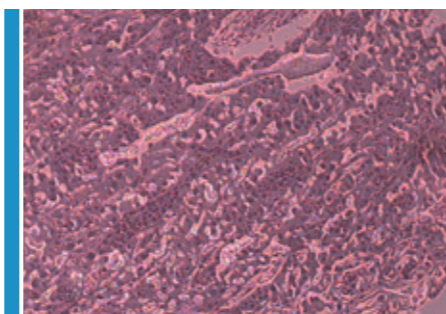
FluoCells® Prepared Slide #1 (BPAE cells with MitoTracker® Red CMXRos, Alexa Fluor® 488 Phalloidin, and DAPI) imaged with 40X LWD FI/Ph objective



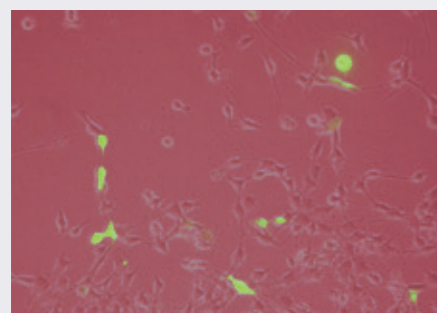
TRUE COLOURED TISSUE SLIDE IMAGE

- **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



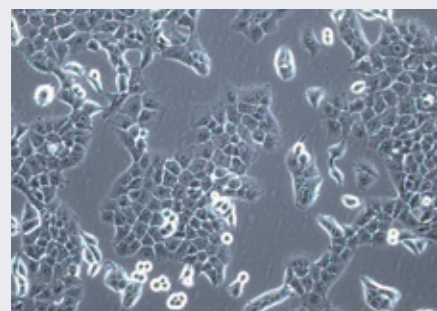
► Embedded cell culture applications



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

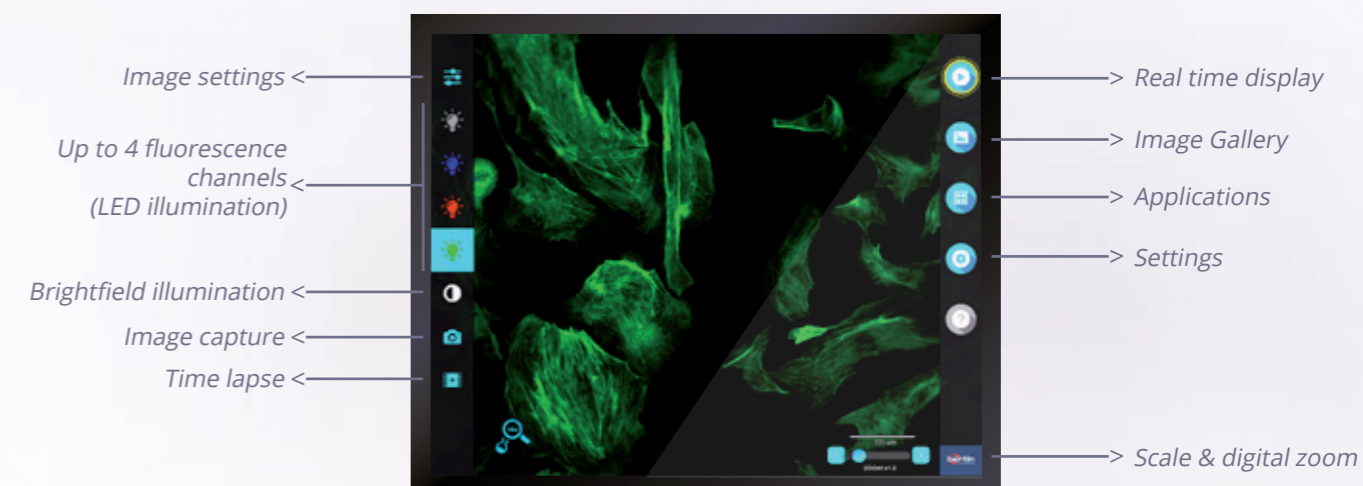


CELL PROLIFERATION STUDY

- **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

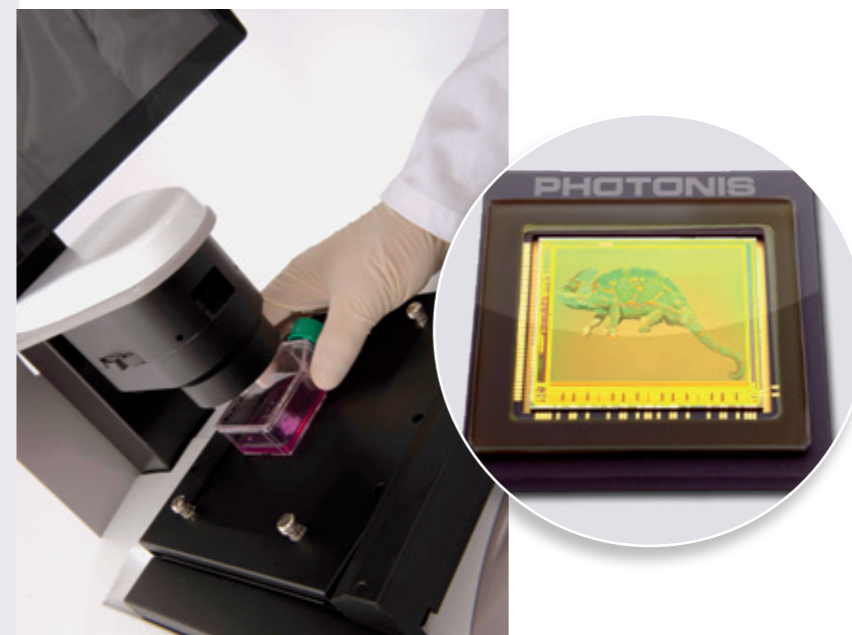


OBTAIN HIGH RESOLUTION IMAGES OVERLAY IN 3 CLICKS!

► 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

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


Fluo Light Modules

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

Objectives

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