

JuLI™

Smart fluorescent
cell viewer



Just! Look at It
Struggle with your imaging?!

Nano**EnTek**

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Smart fluorescent
cell viewer

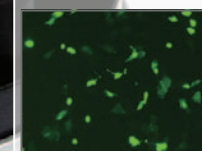


Just! Look at It

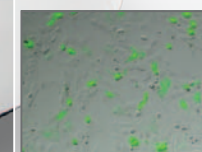
Struggle with your imaging?!



Bright field



Fluorescent field

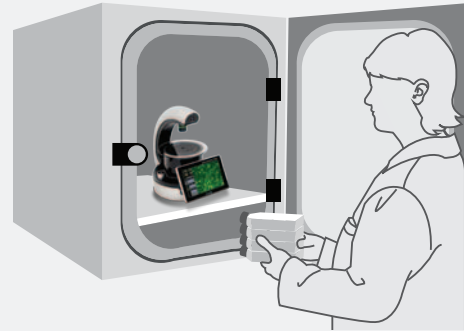


Merged image

Nano**En**Tek

Meet JuLI™ to meet your needs for live-cell imaging

Increasing numbers of researchers are using live-cell imaging to study cellular functions. The JuLI™, a smart fluorescent-cell viewer, was developed to enable a variety of biological experiments for live-cell imaging.



Compatible to Incubator on clean bench

Flourescent live-cell images from various cell culture dishes are directly captured in a tissue-culture hood. This compact design prevents contamination, providing better experiment results.

Capture live-cell images and movies

Sequential time-lapse fluorescence and/or bright images are stored, and can be converted to movie files.

Growing live-cell movies can be generated even in cell-culture incubator.

Communication through wireless data transfer

Utilizing Wi-Fi technology, all data, including images and movies, can be transferred automatically from JuLI™ to PC.

The revolutionary technologies make JuLI™ smart

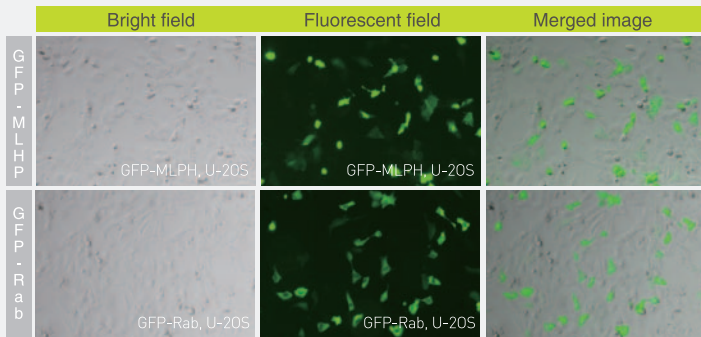
- Stand-alone [All-in-one system]
- 40,000 hrs lifetime of Blue LED
- Dark-room free
- Plug & Play technology
- One-touch image capturing
- LCD touch screen
- Cell counting and analysis of fluorescent/bright*

Applications

- Live cell imaging [time lapse]
- Cell migration assay
- Cell-based assay optimization
- Cell culture quality control
- Proliferation assay

Images by JuLI™ - smart fluorescent cell viewer

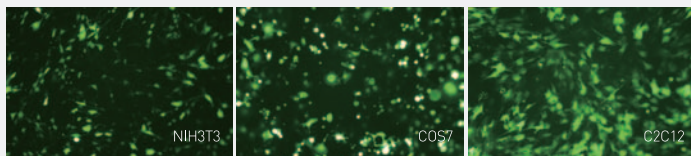
○ Live-cell imaging



The U2OS cells were transfected by NEON transfection system [from Invitrogen] using 0.5ug of the GFP-MLPH plasmid & GFP-Rab plasmid. Images captured 24 hours after transfection.

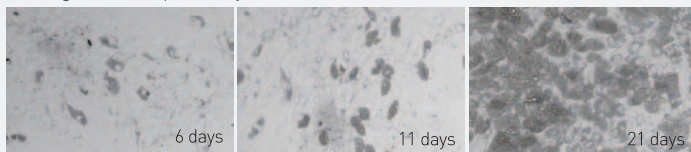
■ GFP images of 3 different cell types

The NIH3T3, COS7, C2C12 cells were transfected by NEON transfection system [from Invitrogen] using 0.5ug of the EGFP-N1 plasmid. Images captured 24-Hours after transfection.



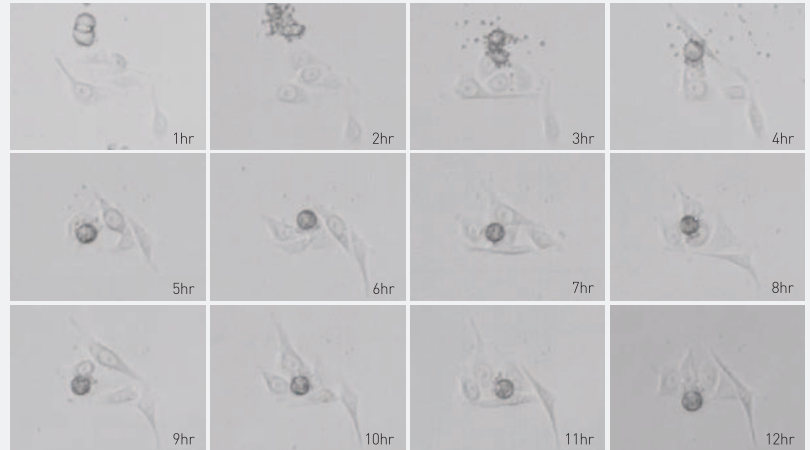
■ Adipogenesis images

Examples of the differentiated adipocyte images for 6, 11, 21 days. All images were captured by JuLI™



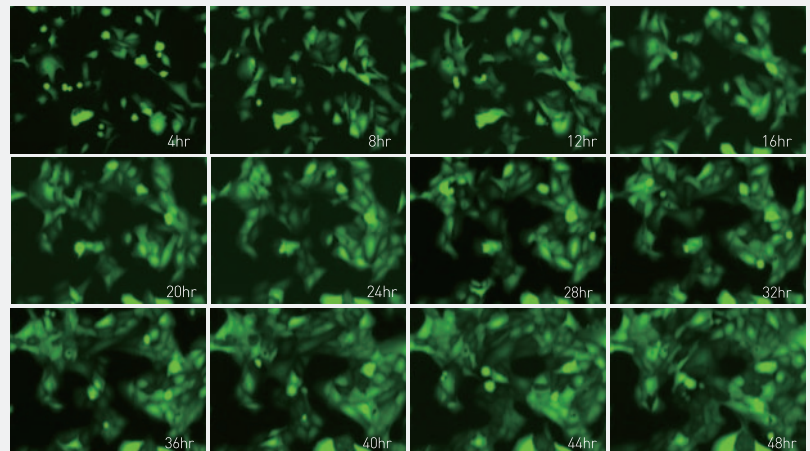
○ Time-Lapse imaging in bright field

Examples of 12-hour time-lapse imaging of the HeLa cells changing shapes. All images were captured at 5-minute intervals.



○ Time-Lapse imaging in fluorescent field

Examples of 48-hour time-lapse imaging of U2OS [GFP stable cell line] changing shapes. All images were captured at 15-minute interval.



* All time-lapse images are stored, and can be converted to movie files.

Image control



Specifications

Cat No.	JuLI-B004 (4x), JuLI-B010 (10x)
Power	AC 100 - 240 V, 50 - 60 Hz
CPU	AMD AU1250
Magnification	4x : ~ 140x, 10x : ~340x
Filter	Excitation / Emission / Dichroic filter
Light source	White / Blue LED [488nm] Optional .White / Green LED [630nm]
Camera	CMOS 1.3M pixels [1280x1024]
Display	7" TFT-LCD [WVGA, 800x480]
Weight	< 5kg
Size	240x350x320mm
Data storage	SD card [8G]

JuLITM
*Smart fluorescent
cell viewer*

Nano**En**Tek

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