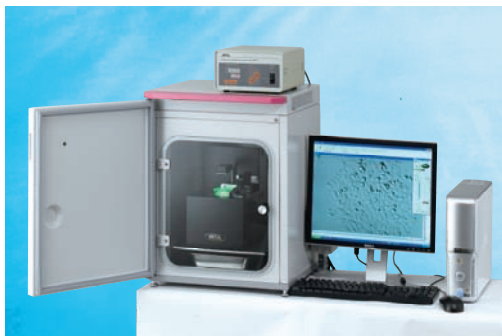


## Phenomena previously unseen can be readily documented!



Microscope now rests in incubator under the condition of temperature 37°C and humidity >96%. Long-term observation of cultured cell is now possible without moving or sampling cells.

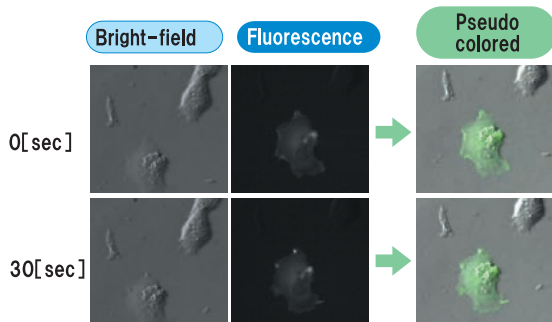
### Features

- Camera unit is sealed in incubator.
- Observed without any environmental changes.
- Time-lapse shooting.
- Compact design.
- Bright-field and Fluorescence imaging.

### Applications

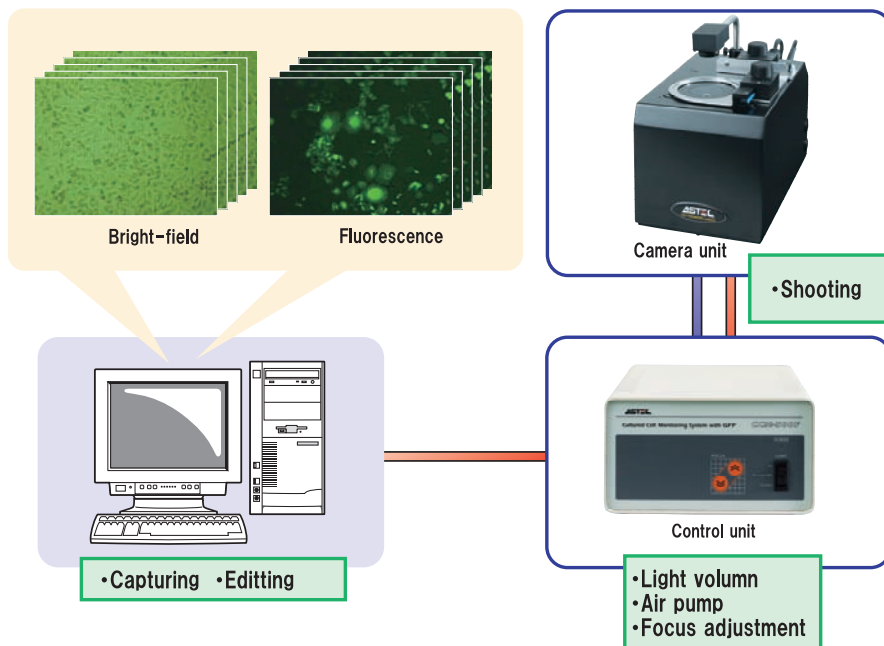
- Chemotaxis in cultured cells.
- Cell differentiation in embryonic and somatic stem cells.
- Neutrophil phagocytosis.
- Expression of fluorescent proteins.
- Cell division, neurite growth, apoptosis.

### Data Example GFP-Actin expression NG108-15



Data by Dr. Miyamoto, Assistant professor. Nakagawa  
Dept. of Computer Science, Kyushu Institute of Technology

Time-lapse images can be conveniently compiled into movie files. In this way, not only the kinetics but the behavior of GFP-labeled proteins can be continuously monitored.



Model	CCM-M1.4	CCM-M1.4ZS	CCM-S1.3
Resolution	1.4 Mega Pixels(1392×1040)	1.4 Mega Pixels(1392×1040)	1.3 Mega Pixels(1280×1024)
Camera	Monochrome Cooled CCD	Monochrome Cooled CCD	CMOS
Pixel Size	4.65 μm×4.65 μm	4.65 μm×4.65 μm	5.2 μm×5.2 μm
Exposure Time	2.0 ms×17.9 min	2.0 ms×17.9min	2.0m×1.6sec
Cooling	RT-25°C Peltier Device	RT-25°C Peltier Device	—
Integrated Magnification	4×→224 times 10×→560 times	4×→224 times 10×→560 times	4×→200 times 10×→500 times
19" display	20×→1120 times	20×→1120 times	20×→1000 times
Light Source (BF)	Green LED	Green LED	Green LED
Light Source (FL)	Blue LED 470nmPeak	Blue LED 470nmPeak	—
Excitation Filter	472.5nm/ Half band width 30nm	472.5nm/ Half band width 30nm	—
Fluorescence Filter	520nm/Half bnd width 35nm	520nm/ Half band width 35nm	—
Camera Unit Dimensions	W205×D290×H300mm	W205×D290×H300mm	W205×D295×H205mm
Camera Unit Weight	9Kg	9Kg	6.5Kg
Control Unit Dimensions	W220×D260×H165mm	W220×D260×H165mm	W220×D260×H165mm
Control Unit Weight	6Kg	6Kg	6Kg
Power	AC100V 1.5A 50/60Hz	AC100V 1.5A 50/60Hz	AC100V 1.5A 50/60Hz