



Photon  
Systems  
Instruments

Professional Instruments  
for Plant Science, Biotechnology  
and Agriculture

# FluorCams

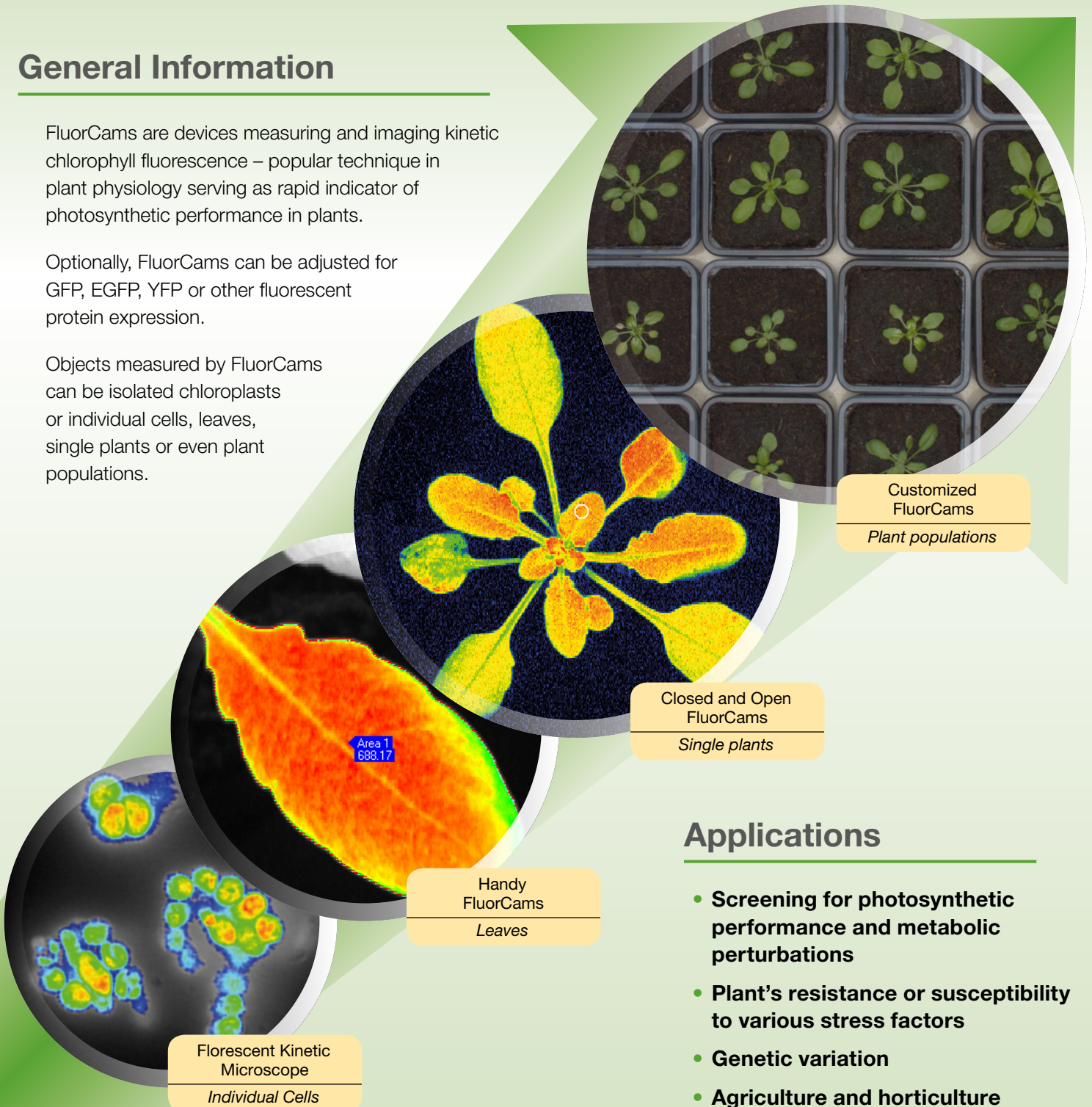
## Imaging Fluorometers

### General Information

FluorCams are devices measuring and imaging kinetic chlorophyll fluorescence – popular technique in plant physiology serving as rapid indicator of photosynthetic performance in plants.

Optionally, FluorCams can be adjusted for GFP, EGFP, YFP or other fluorescent protein expression.

Objects measured by FluorCams can be isolated chloroplasts or individual cells, leaves, single plants or even plant populations.



Customized  
FluorCams

*Plant populations*

Closed and Open  
FluorCams

*Single plants*

Handy  
FluorCams

*Leaves*

Fluorescent Kinetic  
Microscope

*Individual Cells*

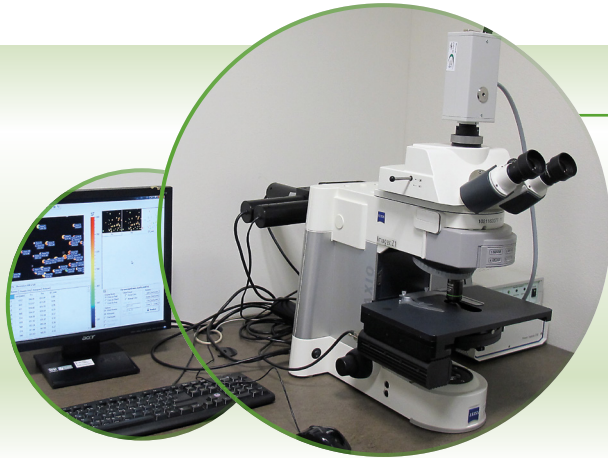
### Applications

- **Screening for photosynthetic performance and metabolic perturbations**
- **Plant's resistance or susceptibility to various stress factors**
- **Genetic variation**
- **Agriculture and horticulture**
- **Growth and development**



# FluorCams

## Imaging Fluorometers

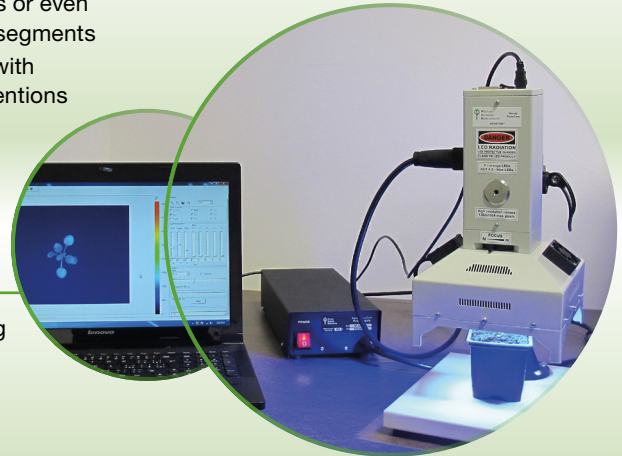


### Fluorescence Kinetic Microscope (FKM)

- Chlorophyll or multicolor fluorescence imaging of individual cells and sub-cellular structures
- Micro-meter resolution enabling investigation of individual chloroplasts or even grana-stroma thylakoid segments
- Highly versatile system with a number of add-on extensions

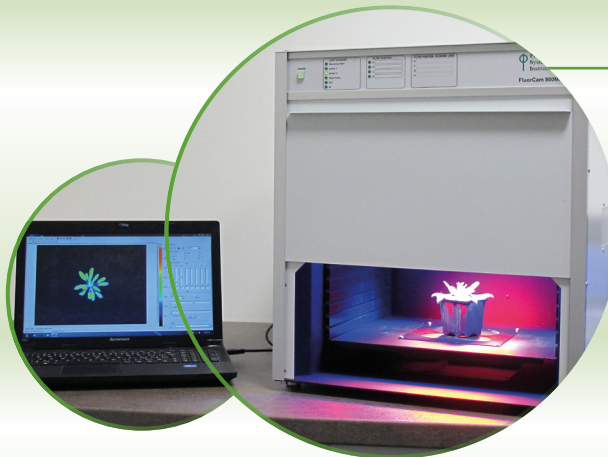
### Handy FluorCam FC 1000-H, Handy GFP Cam FC 1000-H/GFP

- Unique construction allows both GFP imaging and chlorophyll fluorescence imaging
- May be used in field (battery pack) or lab – valuable for imaging of leaves and small plants or algal colonies
- Imaged area 3 × 4 cm; high-resolution, high-sensitivity or fast camera



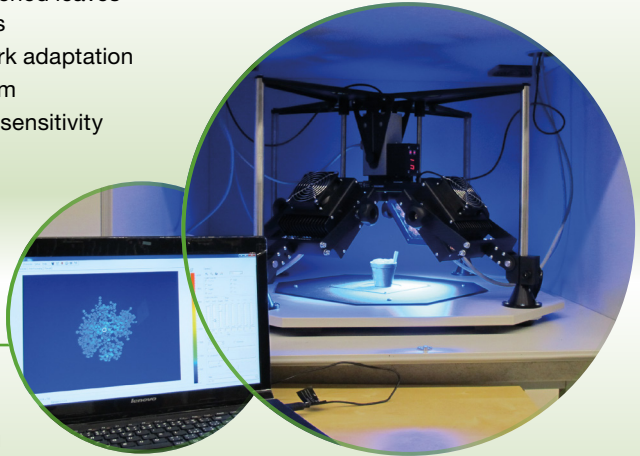
### Closed FluorCam FC 800-C/1010, FC 800-C/1010-GFP

- For imaging of chlorophyll fluorescence and GFP imaging
- For small plants, detached leaves and algal suspensions
- The system allows dark adaptation
- Imaged area 13 × 13 cm
- High-resolution, high-sensitivity or fast camera



### Open FluorCam FC 800-O/1010, FC 800-O/2020

- For multispectral and kinetic fluorescence imaging
- Flexible geometry for samples of various size – microtiter plates, single leaves, plants
- Imaged area 13 × 13 cm or 20 × 20 cm
- High-resolution, high-sensitivity or fast camera



### Customized FluorCams

- Complex multispectral imaging systems according to customers' very specific needs
- Measured objects from small plants to plant populations
- Capabilities and features of the standard FluorCams