

Data Sheet

# J. M. CANTY

Glass Reactor Microscope



Supplied by

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# Glass Reactor Microscope

The **CANTY**  
ADVANTAGE!



## **CANTY GLASS REACTOR MICROSCOPE**

Canty Glass Reactor Microscope provides a unique microscopy system that can be calibrated in situ down to .3um (.7um vis). It provides stunning 2D size and shape analysis, concentration measurement, and visual verification in a single instrument.

Compared to other technologies, the Canty Glass Reactor Microscope is more practical as it does not require multiple probes to measure random cord length. It provides 2D results in the best possible resolution via Canty Vision Software.

The Canty Glass Reactor Microscope provides data in compliance to the ASTM E29 and ISO standards and readily correlates to other PSM systems.

## **APPLICATIONS:**

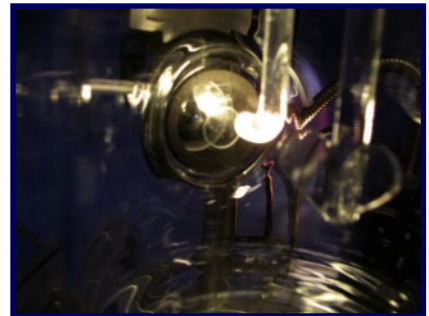
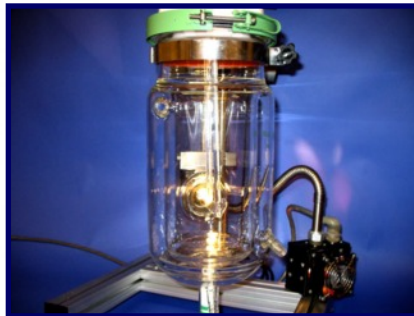
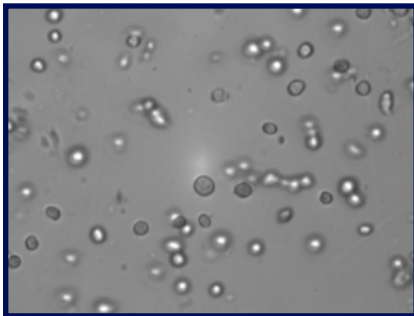
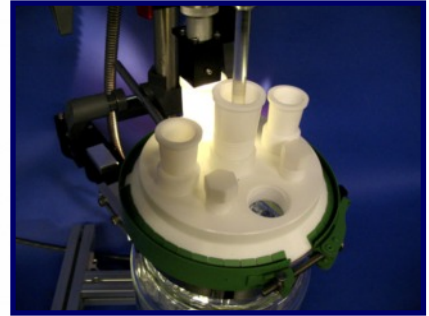
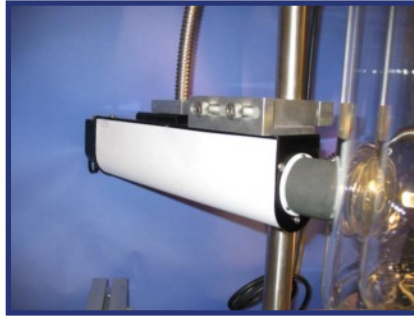
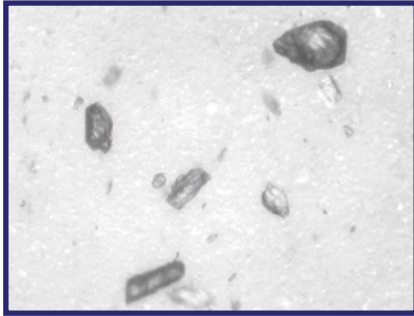
- Crystallization Research
- Amorphous Dissolution / Precipitation
- Dissolving and Solubility of Solids
- Fermentation
- Cell Growth and Count

## **KEY FEATURES:**

- Measures particle size and concentration, while simultaneously providing live video view of particles ranging down to .7 micron.
- 2D image analysis provides real time size, shape, and color analysis on a continuous basis, with outputs configurable to provide full particle size distribution, and particle concentration (to PPM level) data.
- In Crystallization, it allows for rapid study of seed concentration to optimize yield.
- In Dissolution, it measures the base line concentration of particles to determine the proper end point.
- In Fermentation, Cell count, Size and Viability (live / dead) are continuously measured.

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**HOW TO ORDER:** Select the appropriate symbols and build a part:

## G R M - F 2 3 0 D

### PARTICLE SIZE RANGE

P.S. Measure (micron)

- A. 33 - 2200
- B. 50 - 3200
- C. 80 - 4800
- D. 9 - 600
- E. 18 - 1200
- F. .7 - 480

### REACTOR CAPACITY\*

- 1 - 1 LITER
- 2 - 2 LITERS
- 3 - 3 LITERS
- 4 - 4 LITERS

### INPUT POWER

- 1 - 120 V AC / 60Hz
- 2 - 230 V AC / 50Hz

### Supplied by Canty;

Gigabit Ethernet Camera (1620x1220) with Micro Lens (see part number selection for specific overall particle size ranges – note; system is operated in subsets of overall particle size range specified)  
 HYL250 Light Source with Fibre Optic Bundle and "In Vessel" Light Guide  
 Component Power Supplies (120 / 230V Input)  
 Mounting Brackets (V-Block) for Camera & Light Assemblies

### To Be Supplied by End User;

Vertical Pole Stand  
 Glass Reactor with Optical Flat (from Chem Glass, GPE or similar)  
 Glass Reactor Lid with Dedicated Port for Canty Supplied "In Vessel" Light Guide  
 Agitator with Agitator Motor / Speed Control  
 Mounting Brackets for Reactor & Agitator Assemblies