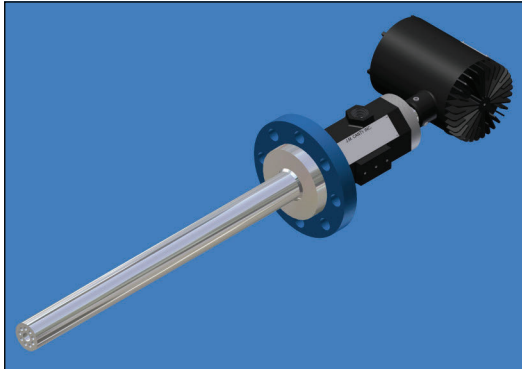


CANTY

PROCESS TECHNOLOGY

INSERTION VISION SYSTEM



HOW IT WORKS

J.M. Canty cameras are patented systems designed to illuminate and view inside a pressure or process vessel through a single connection. There is no need for multiple vessel ports. Canty supplies an integrally mounted camera and lighting system (optional) in a connection as small as a 3" flange. The industry standard video output can be displayed on a video monitor in the comforts of a control room, or recorded on any VCR. A standard video monitor, a TV with video input, or computer monitor through Ethernet may be used to display the image.

CANTY LIGHT MAKES IT POSSIBLE

The key to Canty Camera/Light combination systems is the Canty light. Canty uses fiber optic light guides to focus cool, effective light into a process vessel or area. Cool light eliminates product bake-over on the viewing window. Fiber optic light guides have been specifically designed to work in conjunction with cool light to maximize the light transmission into the vessel. The resulting live, remote video image from this illumination is unparalleled!

THE COMPLETE PACKAGE

Canty can meet all your needs! Included as standard equipment on every camera system are power supplies, a high resolution B & W or color CCD camera, pre-focused lens, and WP, explosion proof or flame proof enclosure. What's more, all wiring and maintenance are external. Many optional monitors, recording and control options are available. All cameras can be easily integrated with a Canty Vector System for various process measuring and control functions, such as non-contact level control, particle sizing, etc. Please consult the factory for details.

APPLICATIONS

- Polymers - Verify empty, monitor level
- Crystallizers - Liquid and foam level
- Fermentors - Liquid and foam level
- High purity pharmaceutical applications
- Toxic Material - Remote viewing
- Foam and Fluid Level monitoring in:
 - Shredders
 - Hoppers
 - Nutsche Filters
 - Latex Applications
 - Strippers
 - Pressure Vessels

FEATURES

- FM Approval!
- 1,500 psi ratings available
- 3" and 4" flange
- High resolution CCD cameras - available in B&W and color, NTSC, PAL and Ethernet
- Remotely view your process from the comforts of a control room
- Single nozzle viewing/illuminating (with light)
- Remote light dimming options
- Spray rings are available to keep your window clean

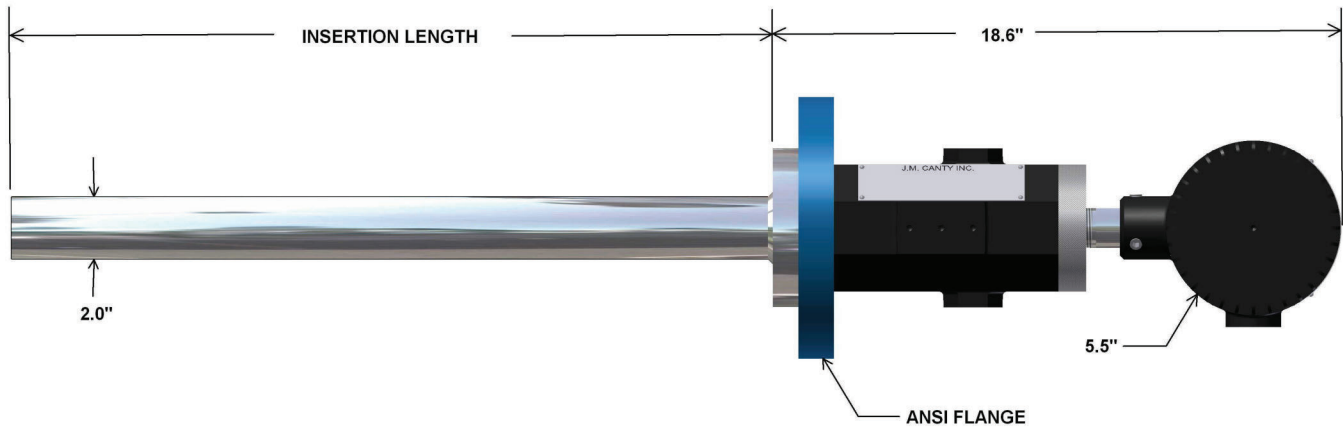
SPECIFICATIONS

CCD Sensor: 1/2" format. 500(H) x 480(V) typ.
Sensitivity: Available from .0001 lux usable picture (low light B&W). .1 lux is typical (color). Varies with model.
Video Output: 1.0 V p-p, 75 typ.
Ambient Temp: -20°C to 40°C
Current Req: 500 mA typical
Environmental Ratings: Type 4, Explosion proof (Class 1, Div. 1, Groups B, C & D, Class II, Div. 1, Groups E, F & G) or Flameproof EEx d IIC

OPTIONS

- Vector System - level/foam control, volume control, in-line particle sizing, color analysis
- Time/date generators - overlay time and date stamp onto video picture
- Data overlay - overlay pH, temp, pressure, etc. onto video picture
- Fiber Optic Link - replaces coaxial cable, need for conduit

DIMENSIONAL INFORMATION



HOW TO ORDER: Select the appropriate symbols and build a model number as shown:

EXAMPLE:

VI7BB1ABT1AA

VISON SYSTEM

- VI - NTSC (North American standard)
- VIE - PAL (European standard)

ENVIRONMENTAL RATING

- 6 - Type 4 weatherproof
- 7 - Explosion Proof or Flame Proof

CAMERA OPTIONS

- B - B+W Camera
- L - Low Light B & W Camera
- C - Color Camera
- E - Ethernet

LENS OPTIONS

- B - 30°(H) X 22°(V)
- C - 45°(H) X 34°(V)
- D - 65°(H) X 49°(V)
- K - 90° right angle 30°(H) X 21°(V)*

CAMERA POWER SUPPLY OPTIONS

- 1 - User supplies 120 V AC. Power supply in a non WP or EXP enclosure. User provides enclosure and switch as needed
- 2 - No power supply required.
- 5 - User supplies 120 V AC. Power supply in a WP enclosure.
- 6 - User supplies 240 V AC. Power supply in a WP enclosure.
- 7 - User supplies 120 V AC. Power supply in an EXP / FP enclosure.
- 8 - User supplies 240 V AC. Power supply in non WP or FP enclosure. User provides enclosure and switch as needed.

MOUNTING CONNECTION SIZE

- | | | |
|---------------|---------------|----------------------------|
| A - 3" 150 lb | E - 4" 150 lb | J - 6" 150 LB |
| B - 3" 300 lb | F - 4" 300 lb | K - 6" 150 LB W/SPRAYRING* |
| C - 3" 600 lb | G - 4" 600 lb | L - 6" 300 LB |
| D - 3" 900 lb | H - 4" 900 lb | M - 6" 300 LB W/SPRAYRING* |

LIGHT OPTIONS

- A - HYL 80 1SDO (120 V)
- B - HYL 80 1PR (120 V)
- J - HYL 1SRDO (120 V)
- G - HYL 80 1SRDO (240 V)

NON-WETTED MATERIAL

- A - Carbon Steel Painted
- B - 316L Stainless Steel
- 0 - No Flange Required

FUSED GLASS OPTION - SELECTED BY FACTORY. DEFAULT IS 1.

INSERTION LENGTH

- | | |
|---------|---------|
| A - 7" | K - 16" |
| B - 8" | L - 17" |
| C - 9" | M - 18" |
| D - 10" | N - 19" |
| E - 11" | P - 20" |
| F - 12" | Q - 21" |
| G - 13" | R - 22" |
| H - 14" | S - 23" |
| J - 15" | T - 24" |
| | U - 25" |

WETTED MATERIAL

- B - 316L Stainless Steel
- D - Alloy C276
- E - Alloy C22

*THE RIGHT ANGLE OPTION IS ONLY AVAILABLE IN THE 6" MOUNT. IF A SPRAY RING IS NEEDED ON THE RIGHT ANGLE MOUNT THEN IT IS AN INTEGRAL UNIT.

CANTY

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