

CANTY

PROCESS TECHNOLOGY

BioCam™ Sanitary Process Camera

Stainless Steel NEMA 4X Construction



HOW IT WORKS

The CANTY BioCam™ is a process camera engineered and designed for sanitary applications. The BioCam™ combines the latest in LED lighting with Ethernet camera technology in a streamlined package. The camera utilizes built-in strobe LED light that has been optimized to run efficiently as to not obstruct photosensitive processes. The all-in-one design is both compact and sanitary and unlike its predecessors requires no additional external power supply for operation. A built in heater eliminates condensation from forming on the glass and provides for a clear image at all times. Coupled with the Canty Vector Control Module, the BioCam™ can be used for full control via OPC or 4-20mA.

SPECIFICATIONS

Power Req: 24V DC, 100-230V AC
Housings: NEMA 4X Sanitary, IP 66, 316L S.S. construction
Wetted Materials: 316L S.S., Hastelloy® C-276, C-22
Surface Finishes: 20uin Ra standard. Also available in 10uin Ra and 15uin Ra with electropolishing as an option.
Connection: 4" Tri-Clamp® / 4" NA-Connect®
Cabling Supplied: 8-Conductor 33 ft. [10 m] 24 AWG stranded/tinned quick connect Ethernet cord, 4-Conductor 19 ft. [6 m] 16 AWG stranded quick connect power cord.

FEATURES

- Built in LED light source - maintenance free
- Compact all-in-one design
- Sanitary 316L S.S. Housing
- No external power supplies required
- Available in 24V DC, 120V AC, 240V AC
- Strobed light allows for optimized illumination without interfering with photosensitive processes
- Built in heater to prevent fog and condensation
- One-piece streamlined design
- System outputs via OPC or 4-20mA to a DCS or PLC for complete, closed-loop control
- Ideal system for foam detection - Canty Vector Control Module can output and control the addition of anti-foam
- Single use models also available

FOAM DETECTION

The CANTY BioCam™ is uniquely qualified to view inside your fermentors and bioreactors and provides a continual control signal allowing the user to meter in antifoam. The BioCam™ is an Ethernet based imaging system which connects to the CANTY VCM™ image processor that determines the percentage of foam on the surface of the liquid. The foam control function allows for significant savings of antifoam, improves process performance in cell culture growth and eliminates the need for additional antifoam fluids in purification.

APPLICATIONS

- BioTech Reactors, Fermentors and Sterilizers
- Sterile Process Vessels
- Aseptic Tanks
- Sanitary Areas and Glove Boxes
- Portable Tanks
- Freeze Dryers
- Many, many more

SANITARY DESIGN

All models feature 316L S.S. construction and are NEMA 4x Weatherproof rated. No external power supplies required. The BioCam™ features an integral strobe LED light source and high speed Ethernet camera mounted in a compact chassis.

IDEAL FOR
FOAM
DETECTION

CANTY

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ORDERING INFORMATION



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

Ordering Information

EXAMPLE:

VBC- 6 E 6 A _ U B C -

ENVIRONMENTAL RATING

6 - NEMA 4x Weatherproof, IP66

CAMERA OPTIONS

E - Ethernet Video Color Camera

LENS OPTIONS

6 - 41° (H) x 31° (V) x 50° (D)

POWER OPTIONS

A - User supplies 24V DC.
Consult factory for other voltage options.

WETTED MATERIAL OPTION

B - 316L Stainless Steel*
D - Hastelloy® C276 or equal
E - Hastelloy® C22 or equal
U - Hastelloy® C276 or equal with 20uin Ra Electropolished finish
V - Hastelloy® C276 or equal with 15uin Ra Electropolished finish

NUMBER OF CAMERAS

- 1 - One (1) Camera
- 2 - Two (2) Cameras
- 3 - Three (3) Cameras
- 4 - Four (4) Cameras
- 5 - Five (5) Cameras
- 6 - Six (6) Cameras

VCM OPTION

- 1 - VCMEA-001* for use with up to six (6) cameras, 8-channel analog output.
- 3 - VCMLA-003* for use with one (1) camera, 8-channel analog output.
- 0 - No VCM, BioCam™ only to add to existing Cauty VCM setup.

*For other VCM options, see datasheet [TA11500-1034](#).

LIGHT OPTIONS

C - Integral light source

HEATER OPTION

B - BioCam™ with Integral Heater

MOUNTING CONNECTION

U - 4" Tri-Clamp® / 4" NA-Connect®

**See Datasheet [TA11500-1034](#) for Vector Control Module details.

*Cauty reserves the right to upgrade from Stainless Steel to the hastelloy C family of materials at no additional charge.

CANTY

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Document P/N: TA11500-1033 Rev. 5

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