Data Sheet

J. M. CANTY HIGHTEMP™

Process Camera - Float Glass Width Measurement System

Supplied by

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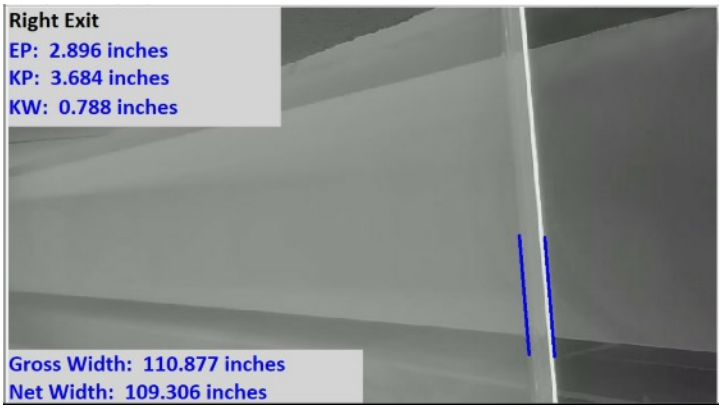
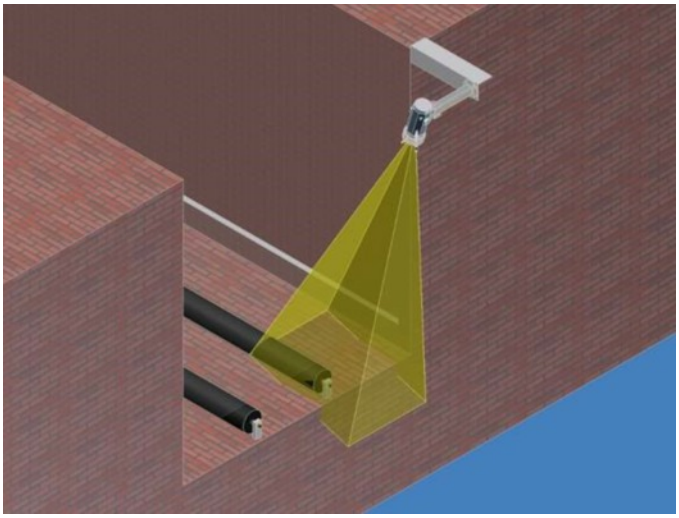
CANTY

PROCESS TECHNOLOGY

HIGHTEMP™ PROCESS CAMERA - FLOAT GLASS WIDTH MEASUREMENT SYSTEM





THE CANTY ADVANTAGE

The Canty float glass exit end width camera system consists of two cameras which perform a non-contact continuous gross/net width control measurement using cameras positioned across from one another on either side of the glass before entering the annealing lehr. Measurements are made in real time on a continuous basis with a resolution of up to .01* inches. Additional lighting is not required due to the optimized wavelengths utilized by the Canty cameras. A cable cooling accessory package is available for when the camera is to be installed in an ambient temperature at or above 150°F.

CANTYVISION™ software utilizes advanced machine vision technology and pattern classification algorithms to accurately detect both the leading edge of the glass and the knurl. Cameras are connected through the software interface to display and measure both position of the glass and the overall gross (outer edge to outer edge) and net widths (knurl to knurl). In addition to the measurement, the camera system provides a visual verification of the glass for operators to view or to be displayed over a local network. System is easy to install and calibration can be performed by inputting camera mounting position measurements into the software interface. Control outputs available include 4-20mA analog output, OPC UA, OPC DA, Modbus TCP and Modbus RTU.

ELECTRICAL SPECIFICATIONS

Format:	TCP/IP Communication (Ethernet)
Cabling:	CAT6 Ethernet Cable, RJ-45 Termination
Power Req.:	User supplies POE or 120V AC/230V AC, 50/60 Hz

MECHANICAL SPECIFICATIONS

Size:	See dimensional info drawing
Weight:	Approximately 10 lbs.
Mounting:	See specification sheet VD11930-110
Ratings:	Available in NEMA 4, IP66
Temperature:	0°F to 200°F Ambient Typical Ratings to 3000°F (process) are available on certain models. Consult factory for details.

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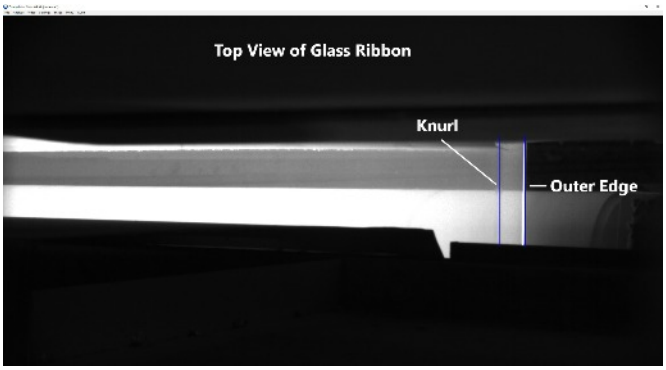
TECHNICAL INFORMATION



	Power Type: Power over Ethernet	**Power Type:** 120/230V AC 50/60Hz
Air Cooled Packages	**VW-RFA1F5** Includes two camera systems with air-cooled aluminum housing, with mounting bracket & orifice plate to keep view clean as well as serve as a temperature barrier.	**VW-RFA1D5** Includes two camera systems with air-cooled aluminum housing, with mounting bracket & orifice plate to keep view clean as well as serve as a temperature barrier. Separate WP power supply for customer input of 120/230V AC, 50/60 Hz
Water Cooled Packages	**VW-RFW2F5** Includes two camera systems with water-cooled aluminum housing, with mounting bracket & orifice plate to keep view clean as well as serve as a temperature barrier.	**VW-RFW2D5** Includes two camera systems with water-cooled aluminum housing, with mounting bracket & orifice plate to keep view clean as well as serve as a temperature barrier. Separate WP power supply for customer input of 120/230V AC, 50/60 Hz.

OPTIONAL:

- VC11424-340 - cable cooling accessory package (installation location temp. at or above 150°F.)

DELIVERABLES:

- Weatherproof Float Glass Width system comes with a Weatherproof RJ45 Connector Receptacle (Female) and Mating Connector for termination of customer supplied CAT 6 Ethernet cable per camera.
- Adjustable Mounting Stand per camera side, reference drawing VD11930-110 for mounting bracket details.
- Vector Control Module- Each camera ordered must be connected to a Canty Vector Control Module (VCM), ordered separately (see below)

CUSTOMER PROVIDES:

- CAT 6 Ethernet cable for use from the VCM to each of the weatherproof connector's on the camera's (maximum of 300 feet distance; for further distances see TA11950-1024 or consult factory)
- Power to the Vector Control Module, 24V DC, 120V AC or 230V AC based on model purchased.
- Customer to supply air or water based on model selected in accordance with manual specification

REFERENCES: Reference IOM manual TA11200-1057.
Reference Document TA11500-1082 for installation layout worksheet.

VECTOR CONTROL MODULE (VCM)

CantyVision software is hosted on a Vector Control Module (VCM), ordered separately. VCMs are dedicated image processors that analyze the video provided by Canty cameras and convert the information into outputs. A single VCM can support up to 6 cameras for analysis, model dependent. The operator screen makes for simple, accurate, real time visual verification. The VCM has OPC or 4-20mA outputs to a PLC or DCS for complete control. The VCM comes with the ability to have full administration controlled passwords and permissions. This cost effective system has a compact design with a customizable screen and an easy setup. The VCM can connect wirelessly to the internet, allowing remote desktop support that can be accessed by the CANTY support team to assist with setup, questions, analysis, etc. For additional information on what VCM is right for you, refer to document TA12100-1012.

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