vision without limits

Continuous Annealing & Galvanizing Lines

PROCESS TECHNOLOGY

BUFFALO

DUBLIN

THAILAND

Continuous Galvanizing Line (CGL)

Galvanizing is the immersing of clean, oxide-free metal into molten zinc in order to form a zinc coating that is metallurgically bonded to the ribbons surface in an effort to increase its resistance to corrosion. The zinc coating protects the surface by:

- Shielding the base metal from the atmosphere
- Providing a protection layer

Continuous Annealing Line (CAL)

Galvanizing is the immersing of clean, oxide-free metal into molten zinc in order to form a zinc coating that is metallurgically bonded to the ribbons surface in an effort to increase its resistance to corrosion. The zinc coating protects the surface against corrosion by:

- Shielding the base metal from the atmosphere
- Providing a cathodic or sacrificial protection since zinc is more electropositive than iron or steel
- Even if the surface becomes scratched and the base metal is exposed, the zinc is slowly consumed while the iron or steel remains protected from corrosion.

High Temperature Cameras

CANTY High Temperature Cameras are ideal for demanding applications involving visual inspection or verification in extreme temperature environments. CANTY High Temperature Camera Systems feature a fused glass seal standard equipment with every model. This unique seal provides an impenetrable safety barrier to protect the camera electronics from the harsh process environment and preventing hazardous vapors from escaping into your plant.

UltraTemp[™] Insertion High Temperature Cameras

- Air is used for cleaning
- Can purge with any gas
- 2000°F [1090°C] or 2500°F [1370°C] models
- High temperature furnace package
- 12"-36" models available to insert thru refractory wall
- High quality quartz optics
- Disposable, protective quartz shield
- Auto electronic iris
- Non-blooming CCD camera
- CCD temperature readout to prevent overheating



UltraTemp[™] Flush Mount High Temperature Cameras

- Ideal for applications where combined refractory and nozzle length are <4" [102mm]
- 2000°F [1090°C] process temperature / 1300°F [700°C] at lens
 - 3" 150# ANSI or 80 mm 16 bar DIN flange mounting options
- Includes protective quartz shield and spray ring assembly
- Heartbeat available

Water Cooled Camera Jacket

- Ideal for applications where instrument air is unavailable
- Effectively cools camera housing and acts as an insulatory barrier against ambient heat
- Highly efficient and minimizes cooling costs





High Temperature Lighting

CANTY high temperature lights offer a compact, cost-effective solution for illuminating pressurized or isolated areas, featuring a patented design that enables an intense light beam to penetrate process boundaries and diffuse into bright, even illumination. Comprising a high-output LED array, light pipe for fiber-optic guidance, and a driver, this system ensures maximum light transmission with enhanced safety, thanks to our high-pressure, high-temperature fused glass seal. Various coupling options are available.

- Air is used for cooling of LED
- Can purge with any gas
- High temperature furnace package
- Up to 24" models available to insert thru refractory wall
- High quality quartz optics
- Remote mount electronics
- Light output control

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**.

The CANTY Advantage

The Canty ULTRATEMP[™] camera and High Temperature LED lighting offer a unique and unrivaled view into the furnace during processes such as annealing, galvanizing and surface treatment ends. Controlled via the VCM, this lighting is especially useful for start-up or cooler furnace sections where the flame's brightness is inadequate. Unlike competitive solutions, the CANTY High Temperature light is designed for up to 50,000 working hours and without burn up shortly after start-up.

Coupled with the VCM, the CANTY camera and lighting system has the ability to seamlessly integrate into the plant IoT (Internet of Things/Industry 4.0) system. Measurements such as strip temperature, strip centering on the rollers and detection of surface imperfections can be achieved and continuously supplied to the plant DCS system via OPC UA, TCP/IP Modbus, 4-20mA or Profibus.

CANTY ThermalVision™ System Applications



CANTY provides continuous temperature measurement by using multiband wavelength imaging pyrometry. With the advancement of CCD technology, multiband measurement has several advantages over 2 color (2 wavelength) pyrometers:

- Product temperature measurement is integrated over a broader range of wavelengths, which minimizes variance in emmisivity.
- VIS (Visible spectrum) between .4 .7 micron allows a wide range of materials to be measured without recalibration or adjustment to emmisivity.

With the use of VIS, NIR and IR wavelengths, the proper ThermalVision[™] camera can be selected to provide the most accurate temperature measurement range available. CantyVision[™] software provides a SMART temperature measurement in addition to molten level tracking, object position and temperature measurement specific to an object or process.

Calibration is performed to ASTM standard, providing for accuracy and repeatability of +/- 1°C.

Actual VIS ThermalVision[™] Camera measuring rod Temperatures 750°F [400°C] - 2865°F [1575°C]

Spectrum	Temperature Range
VIS	750°F [400°C] - 3630°F [2000°C]
NIR	570°F [300°C] - 1830°F [1000°C]
IR	32°F [0°C] - 750°F [400°C]

*For reference only



The HighTemp[™] surveillance camera used for these applications features fused glass barrier with a water or air cooled jacket for protection of the electronics.

A positive gas (air/nitrogen) flow over the lens through the cameras spray tube ensures the view remains clear at all times, while this is not always needed for every application it is recommended to keep the lens clean in these environments.

The high resolution Gigabit Ethernet camera captures the images from the process, and transmits them in the real time to the control room where the Vector Control Module analyzes the image to detect stones and digitally outputs alarms.

Applications



Temperature Control

A CANTY high temperature surveillance camera is mounted to view the metal and give real time temperature control of the steel before it is cooled and rolled. In the visual range, cameras don't have the problem with emissivity that IR instruments do. Additionally, the patented spray ring allows for a clear view that is not effected by dirt and dust buildup, which can give erroneous readings. Visual verification of the steel is provided to the operator as well as a 4-20mA or OPC output to a PLC or DCS for complete automated control.

Width and Centering CANTY cameras can detect the width of rolled or

CANTY cameras can detect the width of rolled or plate steel and transmit this data directly to the control system, while also informing the system if the strip is centered or offset to either side.

Strip Edge & Tear Control



CANTY cameras can identify smooth vs wavy edges, with wavy edges potentially causing downstream problems that can be prevented through prompt corrective actions. Additionally, CANTY cameras can spot holes and tears in the strip, triggering CANTY software alerts for operators to take corrective measures before incurring expensive downtime.

PROCESS TECHNOLOGY

ULTRATEMP™ HIGH TEMPERATURE CAMERAS





UNMATCHED PERFORMANCE

Canty ULTRATEMP™ Cameras are ideal for demanding applications involving visual inspection verification in extreme temperature or environments. They are equipped with computer designed optics for a crystal-clear picture. All cameras feature state of the art camera technology. A digital electronic auto-iris provides an exceptional image of your application without the problems associated with manual apertures. High temperature lenses are designed to survive in process without cooling air.

SAFETY IS MAIN CONCERN

Canty ULTRATEMP[™] Camera Systems feature a fused glass seal standard with every model. This unique seal provides an impenetrable safety barrier to protect the camera electronics from the harsh process environment and preventing hazardous vapors from escaping into your plant.

NO LENS AIR PURGING REQUIRED

Unlike other manufacturers, Canty does not require air to keep the lenses cool. Loss of air will not destroy our camera system! A positive air flow is used for maintenance purposes only to keep dust and soot from accumulating on the lens. As a result, many applications will not require any air purge, which can save thousands of dollars per year!

APPLICATIONS

- Furnaces
- Power Boilers
- Incinerators
- Kilns
- Melting Chambers

FEATURES

- Requires less cooling air then any other high temperature camera on the market!
- Disposable quartz protective shield
- High temperature furnace lens up to 2500°F
- Auto electronic iris
- High quality quartz optics
- Fused glass seal separates electronics from process
- Insertion lens available up to 36" long
- Non-blooming CCD cameras

SPECIFICATIONS

Video Formats: Video Output: Cable:	Ethernet outputs Ethernet output to PC available Ethernet cameras require CAT6 or better cabling.
Power Req.:	User supplies 120V AC, 60 Hz or 230V AC, 50 Hz power /24V DC or POE.
Ratings:	Available in NEMA TYPE 1, NEMA TYPE 4, IP20, IP66
Mounting:	3" 150# ANSI or 80 mm DIN flange for flush mount units. Insertion units require a Ø3.5" hole that the wall mount tube will insert into and be welded to.



JM Canty Inc M Canty Intl Ltd Buffalo, NY USA Ph: 1 (716) 625 4227 Dublin, Ireland Ph: + 353 (01) 882 9621

DIMENSIONAL INFORMATION

Insertion sizes 12" and Larger

Non Insertion Models



Ordering Information

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

EXAMPLE:

VSH DE 6 7 D E - S - 3FL150S - 24INS

EXAMPLE:					
VIDEO OUTPUT FORMAT					
/SH - North American Standa	INSERTION LENGTHS				
VEH - European Standard	0INS- Flush Mount - No Insertion				
	12INS- 12" [305mm] Insertion				
CAMERA OPTION	24INS- 24" [610mm] Insertion				
DE- Ethernet camera	36INS- 36" [914mm] Insertion				
CE*- Ceramic Ethernet Camera					
DR- Color Neutral Ethernet ca					
ote: *CE not available with 0INS option					
*CE option not pictured	3FL150S- 3" 150# ANSI Flange Mount				
TEMPERATURE RATING	80FL16S- 80mm 16 Bar DIN Flange (option for flush mount only)				
5- Furnace operating 2000°F Te					
1300°F (No insertion)					
Furnace operating 2500°F lens 1600°F (Insertion n					
lote: For higher temperature requireme					
XTREMETEMP [™] model: TA10889-1.	6- Power supply in VP Active (230V AC input)				
	9- 24V DC, No Power Supply Required				
LENS VIEW ANGLES	E- POE, No Power Supply Required				
INSERTION MODELS					
B- 30°(H) X 22°(V)					
C- 45°(H) X 34°(V)	NOTE: Accessory Kit part number: V401-KIT available to aid in installation contains 100-1000 SCFH and 60-600 SCFH Flowmeters along with a 0.5				
D- 65°(H) X 49°(V)	micron oil/vapor removal filter.				
ENS VIEW ANGLES					
NON-INSERTION MODELS					
- 7°(H) X 5°(V) - 22°(H) X 16°(V)					
22°(H) X 16°(V) G- 41°(H) X 31°(V)					
H- 69° (H) X 53° (V)	All registered trademarks are the property of their respective owners				
CANTY	JM Canty Inc Buffalo, NY USA Ph: 1 (716) 625 4227 M Canty Intl Ltd Dublin, Ireland Ph: + 353 (01) 882 962				
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5+ YEAR LIFE

HIGH INTENSITY UNIFORM WHITE LIGHT OUTPUT, MAINTENANCE FREE!

PROCESS TECHNOLOGY

HYL 80 SERIES LED HIGH TEMPERATURE LIGHTING SYSTEMS



HOW IT WORKS

The HYL 80 LED lights are designed to illuminate pressurized, irradiated or isolated areas. The HYL lighting package provides a compact, cost effective lighting system. Our patented design allows for an intense beam of light to cross the pressure/process boundary. Once across, the beam is diffused to provide a conical light output of bright, even illumination.

FEATURES

- NEMA 4, IP 66 ratings available.
- Brighter than former 80W Halogen lights
- Low power consumption, 16-20W
- Maintenance-free, high output LED.
- All wiring and maintenance external.





SPECIFICATIONS

- Light Pipe Mounting: Flanged
- Light Source

Rating: WP, IP 66, EXP and FP available Power Reg:16-20W

- Typ. Max Specification 80W: 25 ft [7.6m] dia. X 70 ft [21.3m] dp.
- Power Supply Options: 24V - 230V input options available



UNIQUE DESIGN

Our patented design consists of three main components: light source, light pipe and driver. A high output, long-life LED array delivers the maximum amount of light into the vessel. Light is guided fiber-optically through the light pipe into the process or pressure area. All Canty light pipes feature our high pressure, high temperature fused glass seal for maximum safety. A variety of





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

SWITCHES Weather Proof Light Options 24V DC Models: L - NEMA 4X / IP66 enclosure with dimmer. 24V DC input 120V / 230V Models: M - NEMA 4X / IP66 enclosure with dimmer 120V/230V AC input WETTED MATERIALS S S5* D - Hastelloy® C276 or equal M Monel** * Canty Reserves the right to upgrade to Hastelloy® C-family of alloys or equal at their own cost. *** Not available on all models. Vissel lights are not available on all models. Vissel points are not available on all models. Vissel points are not available on all models. Vissel Provide many row put with models. Vissel Provide many row put with models. Vissel Provide many row put with models. Vissel Provide many row put models. Vissel Vissel Provide many row put models.		HTL-EFLS83	SG	i-LED		
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JM Canty IncBuffalo, NY USAPh: 1 (716) 625 4M Canty Intl LtdDublin, IrelandPh: + 353 (01) 8	CANTY			Buffalo, NY USA Dublin, Ireland	Ph: 1 (71 Ph: + 353	6) 625 4227 3 (01) 882 962

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CANTY'S GOAL IS TO PROVIDE EQUIPMENT TO ENHANCE PROCESS CONTROL AND YIELD. WE ACCOMPLISH THIS BY DESIGNING, MANUFACTURING, AND SERVICING THE FINEST EQUIPMENT IN THE WORLD.

Some of Our Valued Customers:

AK STEEL ALCOA ALLIED ALUMINUM ARCELORMITTAL DOFASCO DREVER FREEPORT MCMORAN GERDAU HESTEEL HYUNDAI STEEL KENNECOTT NEWMONT NORTH AMERICAN STAINLESS NUCOR STEEL RIO TINTO U.S. STEEL VALE Applications:

Contents MOLTEN LEVEL SLAG MEASUREMENT STEEL MILL WIDTH & CENTERING TEMPERATURE CONTROL STRIP EDGE & TEAR CONTROL REBAR LENGTH REBAR COBBLE DETECTION SMELTING FURNACE TUNDISH TEMPERATURE BILLET LENGTH BILLET ALIGNMENT CRUCIBLE CAMERA POUR CAMERA

AND YOU!!!



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