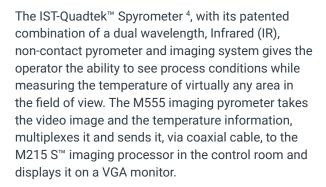


HIGH TEMPERATURE CAMERA

M555[™]

High Temperature Spyrometer^{®4} Camera



The M215 S imaging processor provides on-screen temperature measurement facilities; the data can easily be interfaced to your control system using an Ethernet link or 4-20 mA outputs. Please refer to separate M215 S datasheet for full details.

Additional features of the M555 include:

- Improved iris control options for a clearer image under changing lighting conditions
- Less requirement for air cooling, reducing electrical power consumption in some applications
- · Fewer component parts
- · Improved reliability through use of surface mount

*USA Patent 6,667,761



FEATURES

- Rotary Kilns: Monitor cement and lime kiln product and temperatures. See potential kiln upsets early. Interface temperatures to your DCS.
- ✓ Cement Clinker Coolers: Monitor the cooler for red rivers and upset conditions. Optimize cooling patterns by measuring clinker temperature on the grate. Aids in reducing equipment breakdown and refractory degradation. Obtain continuous visual of clinker depth and relation to grate speed changes.
- ✓ Fossil Utility Boilers: Observe flame shape and temperature of each burner. Assign a temperature cursor to each flame to aid in controlling NOx levels.
- Steel Reheat Furnaces: See areas of non-uniform heating and adjust product speed or combustion accordingly. Position temperature cursors to accommodate size and shape of the load.
- Glass: View for flame impingement and product flow. Accurately measure refractory temperatures.
- Copper Casting Wheels: Optimize metal flow to the casting mold while monitoring from the control room. Measure temperature of metal in casting spoons.

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SPECIFICATIONS AND PERFORMANCE

PYROMETER SENSOR

- · Pyrometry Options:
 - Dual wavelength Infrared (IR) ratio pyrometry using narrow bands centered at 0.8 and 1.6 microns: /TR1_554: 663 1255 °C (1225 2291 °F), /TR2_554: 848 1816 °C (1558 3301 °F), /TR3_554: 750 1450 °C (1382 2642 °F)
 - Single wavelength Infrared (IR) pyrometry using a narrow band centered at 1.6 microns: /TR2_553: 427 1371 °C (800 2500 °F)
- Temperature Accuracy: ±1.0% Full Scale
- Spot Size: Approximately 1/24 of horizontal image width
- Spatial Scan Resolution: 47 horizontal x 35 vertical width of the image
- Scan Rate: Scan speed varies with size and number of TMZs or via operator adjustment

LENS

- Construction: Air or water-cooled 304 stainless steel outer shroud; sapphire window for max. environmental protection.
 Straight viewing(/L) and 45° oblique angle lens (/OAL) versions available.
- Diameter: /L: 38 mm (1.5 in.); /OAL: 51 mm (2.0 in.)
- Cooling Requirements: Instrument quality air*, 25-40 SCFM (12-19 dm³/sec) @ 5-15 psig (34-103 kPa), required for straight lens
- Thermocouple:
 /TJ: Type J thermocouple option;
 /TK: Type K thermocouple option
- Field of View: Wide: 75° H x 58° V Medium: 50° H x 38° V Narrow: 35° H x 26° V

Length	Straight Lens	OAL Lens	Water Cooled Lens	Water Cooled OAL
18 in.	✓			
24 in.	✓	4	4	
30 in.	✓	4	4	~
36 in.	~	4	4	
42 in.	✓	✓		
48 in.	✓		~	✓

CAMERA

- Power: 115-230 V ac, 50/60 Hz
- · Detector: Solid state color image sensor
- System Resolution: >300 lines in the center of the image
- Video: .0V p-p, 75 ohm, CCTV signal /VTN: NTSC or /VTP: PAL video timing selected at time of order
- Control: Iris adjustment on rear of unit; remote iris adjustment from the processor
- Application Filter: Filters are provided to match your process and maximize performance. Contact your Sales Representative

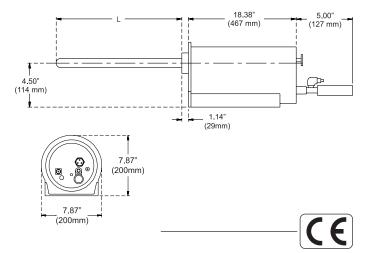
ENCLOSURE

- Construction: /CEI: Corrosion-resistant, insulated, air-cooled, NEMA 4; /CEW: Corrosion-resistant, water-cooled, NEMA 4
- Cooling Type: Vortex cabinet cooler, 25 SCFM @ 100 psi (13 dm³/sec @ 690 kPa); instrument-quality air required or water-cooled option available
- Ambient Environment: Max. 140 °F (60 °C) with negligible radiant heat load. Water-cooled option available to handle high radiant heat environment

MECHANICAL

- · Video Output Jack: Female PL-259 "UHF" type
- Power Input Jack: Removable waterproof miniplug (JOY type TP, female 3-conductor; mating power cord provided)
- Enclosure Cooling Input: 1/4 in. brass quick-disconnect nipple; mating coupler (Snaptite BVHC4-4F) provided
- Lens Cooling Input: 1/2 in. brass quick-disconnect nipple; mating coupler (Snaptite BVHC8-8F) provided
- · Weight: 14 kg (30 lb) for standard air-cooled configuration

*To ISO 8573-1, Class 1•7•2





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