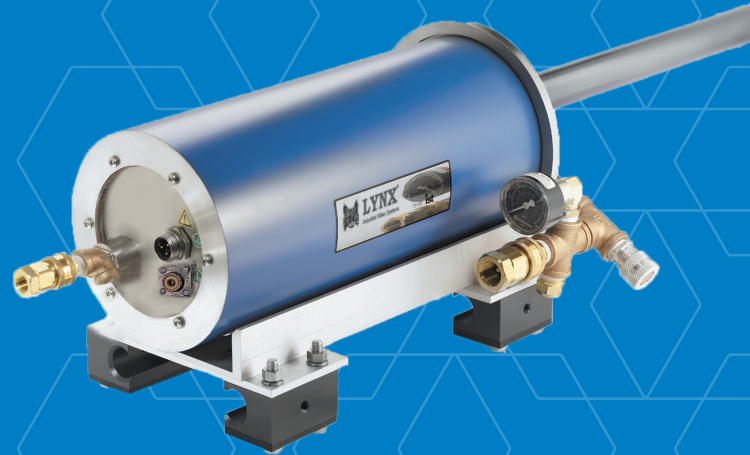




HIGH TEMPERATURE CAMERA

# M530™

## Lynx High Temperature Color Camera Series



The IST-Quadtek™ M530 Series of Visible Light High-Temperature Color Cameras is designed to give you the flexibility to customize electronics, lenses, filters and other options to provide continuous monitoring of your hightemperature internal processes. Straight, oblique, or right angle lens tube options are available that offer more flexibility in mounting the camera. Add a M721™ Remote Auto Iris Controller to adjust the camera iris from the comfort of the control room providing a clear picture from start-up to full load.

### FEATURES

- ✓ Rotary Kilns and Coolers: Provide continuous product quality monitoring. Observe ring formation, burner flame and product as it moves down the kiln or cooler. See potential upsets early.
- ✓ Coal Fired Utility Boilers: Monitor flame shape to adjust burners for maximum combustion and minimum fuel usage.
- ✓ Bark Fired Boiler: Observe fuel distribution, bed and feeder monitoring, combustion and flame characteristics.
- ✓ Glass Melt Tanks: View for flame impingement and monitor the crown for dripping. Easily see batch load, flow pattern and any unmelted surface material.

## **SPECIFICATIONS AND PERFORMANCE**

### **CAMERA**

- Power Requirements: 85-265 V ac, 47-440 Hz
- Camera Detector: 1/2 in. solid state color image sensor
- System Resolution: >450 lines
- Video: 1.0 V p-p, 75 ohm, CCTV signal /VTN: RS170-NTSC or /VTP: CCIR-B-PAL video timing
- Control:
  - /AIN: Manual focus and iris adjustment on back
  - /AIR: Remote iris adjustment with M721 Remote Auto Iris Controller

### **LENS**

- Construction: Air or water cooled 304 stainless steel outer shroud. Sapphire window for maximum environmental protection.
- Lens Options: /L: Straight view, /RAL: right angle with 90° offset optics, /OAL: oblique angle with 45° offset optics, /WCL: water cooled
- Lengths: STD /L30: L=27.7 in. (704 mm) or /OAL30: L=26.7 in. (678 mm) Other lenses available. Please contact your sales representative.
- Field of View:
  - Wide: 75 °H x 56 °V
  - Medium: 60 °H x 45 °V
  - Narrow: 35 °H x 26 °V
- Diameter:
  - /L: 38 mm (1.5 in.)
  - /RAL & /OAL: 51 mm (2.0 in.)
  - /WCL: 57 mm (2.25 in.)
- Cooling Requirements: Instrument quality air, 12-19 dm³/sec (25-40 SCFM) @ 5-15 psig (34-103 kPa) required for straight view lens (to ISO 8573-1, Class 1.7.2)
- Environment: 1621 °C (2950 °F) with proper cooling
- Thermocouple:
  - /TJ: Type J thermocouple option
  - /TK: Type K thermocouple option Construction

### **ENCLOSURE**

- Construction:
  - /CEI: Corrosion-resistant, insulated, air-cooled, NEMA 4;
  - /CEW: Corrosion-resistant, water-cooled, NEMA 4
- Cooling Type:
  - /CCP: Air purged with check valve, 1 SCFM @ 2 PSI (0.5 dm³/sec @ 14 kPa)
  - /CCV: Vortex cooling 13 dm³/sec @ 690 kPa (25 SCFM @ 100 PSI); Instrument quality air required
- Ambient Environment: Max. 60 °C (140 °F) 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 air-cooled configuration (lens and camera)

