

LYNX[®]
Industrial Video Systems

QUADTEK M530 Lynx

High Temperature Color Camera Series



Process / Benefits

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 un-melted surface material.

The **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 high-temperature internal processes. Straight, oblique, or right angle lens tube options are available that offer more flexibility in mounting the camera. Add an M721 remote auto iris to adjust the camera iris from the comfort of the control room providing a clear picture from start-up to full load.

QUADTEK M530 Lynx

Specifications and Performance

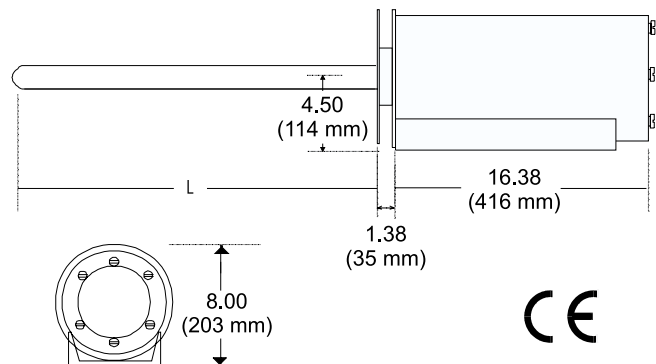
Camera

Power Requirements.....	85-265VAC, 47-440Hz
Camera Detector.....	1/2" solid-state color image sensor
System Resolution.....	>450 lines
Video.....	1.0V 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 max. 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" (704mm) or /OAL30: L=26.7" (678mm) <i>Other lenses available. Please contact your sales representative.</i>
Field of View.....	Wide: 75°H x 56°V Medium: 60°H x 45°V Narrow: 35°H x 26°V
Diameter.....	/L: 1.5" (38mm) /RAL & /OAL: 2.0" (51mm) /WCL: 2.25" (57mm)
Cooling Requirements.....	*Instrument quality air, 25-40 SCFM (12-19 dm ³ /sec) @ 5-15 psig (34-103 kPa) required for straight view lens
Environment.....	2950°F (1621°C) with proper cooling
Thermocouple.....	/TJ: Type J thermocouple option /TK: Type K thermocouple option

*To ISO 8573-1, Class 1 • 7 • 2



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 dm ³ /sec @ 14 kPa) /CCV: Vortex cooling 25 SCFM @ 100 PSI (13 dm ³ /sec @ 690 kPa); Instrument quality air required.
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" brass quick-disconnect nipple; mating coupler (Snaptite BVHC4-4F) provided
Lens Cooling Input.....	1/2" brass quick-disconnect nipple; mating coupler (Snaptite BVHC8-8F) provided
Weight.....	30 pounds (14kg) for air-cooled configuration (lens and camera)

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