



## High Temperature. Safety.

# M535

Lynx High Temperature Color Camera Series









Homeland Security & Defense



Industrial and Manufacturing



Healthcare



Labs and Education

### **OVERVIEW**

The IST-Quadtek M535 Lynx 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 processes. Straight or oblique lenses are available in order to give the end user greater flexibility in mounting arrangements.

The camera includes temperature sensors to provide status information and control of a retract system when fitted.

A serial interface allows the camera to be controlled and its status to be checked remotely from the comfort of the control room. Features include:

- Automatic exposure adjustment
- Image adjustment (brightness, white balance, contrast and color saturation)
- Color or mono display modes
- Camera temperature monitoring (lens tip, imager and main enclosure)
- Over-temperature alarms (user adjustable)
- · Retract demand status
- Event log

## **KEY FEATURES**

- Coal Fired Utility Boilers
  - Monitor flame shape to adjust burners for maximum combustion and minimum fuel usage
- Rotary Kilns and Coolers
  - Provide continuous product quality monitoring. Observe ring formation, burner flame and product as it moves down the kiln or cooler. Potential upset conditions can be detected early
- Bark Fired Boiler
  - Observe fuel distribution, bed and feeder monitoring, combustion and flame characteristics
- Cost Effective Solution
  - Ideal for multiple camera installations
- Compatible with Existing IST-Quadtek Retract Installations
  - Can be retro-fitted on existing M353/M354/M356 retraction systems

**Imaging Systems** 



## **SPECIFICATIONS AND PERFORMANCE**

Materials/Dimensions/Weight		
Housing Material	Stainless Steel and Aluminium. Corrosion resistant	
Lens Material	Stainless Steel shroud with Sapphire window for optics	
Weight	9kg (20lb) typical, varies with lens lengths	
Housing	To NEMA 4 standards	
Dimensions	Refer to outline drawing	

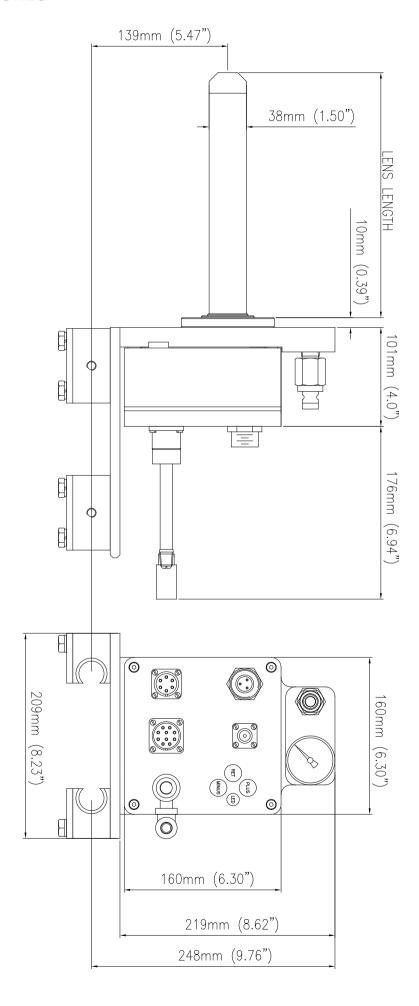
Image Sensor		
Camera Detector	Solid State CMOS image sensor	
Resolution (Effective Pixels)	PAL: 720(h)*576(v), NTSC: 720(h)*480(v)	
Video Output	1.0Vp-p 75 ohm, PAL or NTSC, colour	
Exposure Control	Automatic exposure control, with remote adjustment	

Lens			
Lens Lengths	Nominal lengths from 18" to 48" in 6" increments		
Viewing Directions	Straight Offset angle or right)	(OAL), 45° (up, down, left	
Field of View	Medium: Wide:	35° horizontal 55° horizontal 75° horizontal 90° horizontal	
Diameter	Straight: OAL:	38mm (1.5") 51mm (2.0")	
Filters	Options for N	ND Filters	

Cooling and Environmental		
Operating Temperature	0°C to 60°C (32°F to 140°F) with negligible radiant heat load Lens tip up to 1621°C (2950°F) with correct cooling	
Storage Temperature	0°C to 70° C (32°F to 158°F)	
Cooling Air Quality	Instrument quality ISO 8573-1 Class 1.7.2	
Enclosure Cooling	Options for purge air or vortex cooling Air purged 0.5 dm³/sec @ 14 kPa (1 SCFM @ 2 PSI) Vortex cooling 12 dm³/sec @ 690 kPa (25 SCFM @ 100 PSI)	
Lens Cooling	Purge air only 12-19 dm³/sec (25-40 SCFM) @ 34-103 kPa (5-15 psig) required for straight lens, but will vary for others	
Enclosure Cooling Connector	14" brass quick-disconnect nipple. Mating coupler provided.	
Lens Cooling Connector	½" brass quick-disconnect nipple. Mating coupler provided.	

Electrical Interfaces		
Mains Supply	100-240V AC, 50/60Hz, 25VA maximum	
Mains Connector	Waterproof Miniplug (JOY type TP, 3 pin)	
Video Connector	Female PL-259 UHF (coaxial)	
Retract Connector	Provides power and control for a retract system	
Remote Control Connector	Provides remote control via RS485 serial bus	
User Controls	3 push-buttons, to provide control via on-screen menus	
Indicator	LED to indicate power and status	

## **ADDITIONAL PICTURES**



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### **ADDITIONAL PHOTOS**



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