MIRION TECHNOLOGIES

High Temperature. **Safety.**

M535 LYNX

High Temperature Color Camera Series

Nuclear Power

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

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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

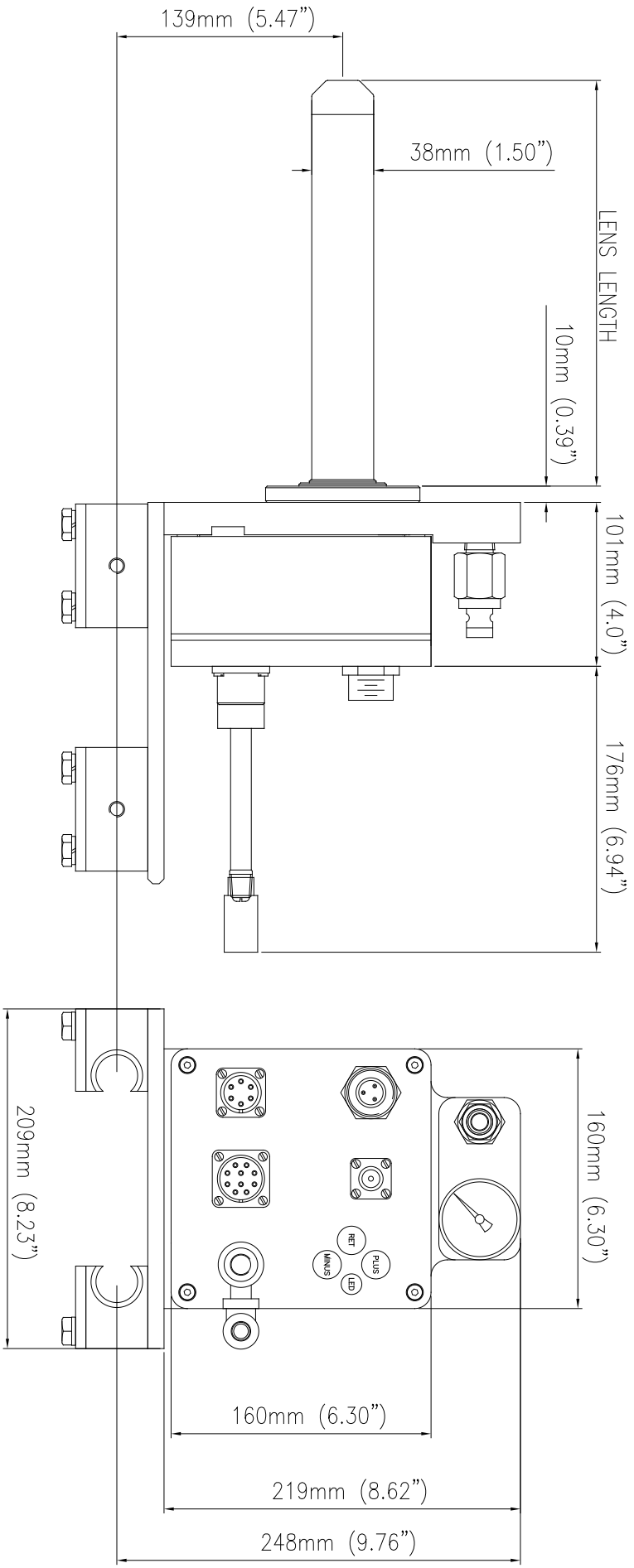
Image Sensor	
Camera Detector	Solid State CMOS image sensor
Resolution (Effective Pixels)	PAL: 720(h)*576(v), NTSC: 720(h)*480(v)
Video Output	1.0Vp-p 75 ohm, PAL or NTSC, colour
Exposure Control	Automatic exposure control, with remote adjustment

Lens	
Lens Lengths	Nominal lengths from 18” to 48” in 6” increments
Viewing Directions	Straight Offset angle (OAL), 45° (up, down, left or right)
Field of View	Narrow: 35° horizontal Medium: 55° horizontal Wide: 75° horizontal Super Wide: 90° horizontal
Diameter	Straight: 38mm (1.5”) OAL: 51mm (2.0”)
Filters	Options for 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 dm^3/sec @ 14 kPa (1 SCFM @ 2 PSI) Vortex cooling 12 dm^3/sec @ 690 kPa (25 SCFM @ 100 PSI)
Lens Cooling	Purge air only 12-19 dm^3/sec (25-40 SCFM) @ 34-103 kPa (5-15 psig) required for straight lens, but will vary for others
Enclosure Cooling Connector	¼” 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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