



MIRION
TECHNOLOGIES

High Temperature. **Safety.**

M560

High Temperature Solid State IR Camera



Nuclear
Power



Homeland
Security
& Defense



Industrial and
Manufacturing



Healthcare



Labs and
Education

OVERVIEW

The IST-Quadtek M560 High Temperature Camera from Mirion is a remote observation system which utilizes a solid state IR device to monitor the smeltbed in recovery boilers, monitor slag build-up in utility power boilers and monitor product distribution and control, as well as burn efficiency in industrial process furnaces. The wavelength selections in conjunction with our special filtering result in:

- Improved image quality
- Ability to view further in typical applications
- Enhanced sensitivity of the overall product in-situ

KEY FEATURES

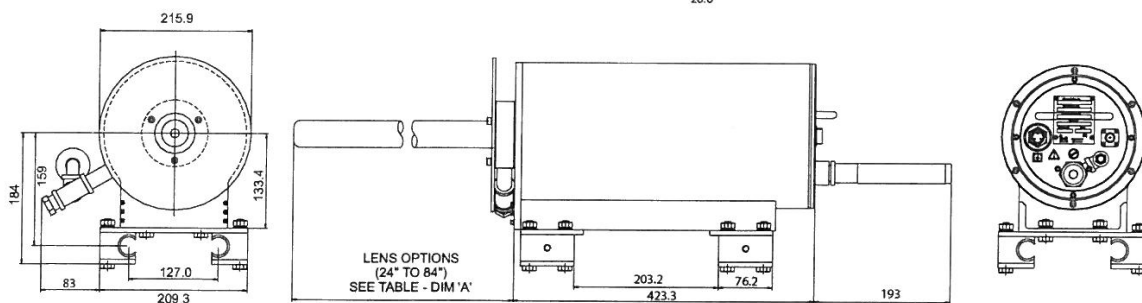
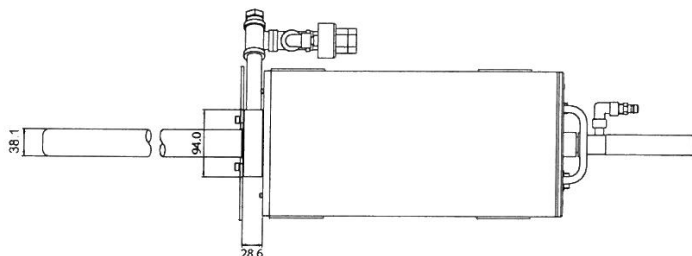
- Solid state IR sensor guarantees no picture degradation or image burn
- Lens tube lengths from 24" to 72" supported
- Medium, wide and superwide lens options
- Small front opening and improved seal reduces air usage and keeps lens cleaner
- Sapphire window more durable and scratch resistant than other materials
- Minimal preventative maintenance
- Image performance enhancements in typical applications

SPECIFICATIONS AND PERFORMANCE

Camera	
Power Requirements	100/115/230 VAC, 50/60 Hz, 24 Watts
Video Output	Monochrome EIA Standard RS-170, 525 lines or CCIR, 625 lines, composite video output and sync; 1.0 to 1.4V p-p
Lens	
Construction	Air-cooled 304 stainless steel outer shroud. Sapphire window for maximum environmental protection
Lengths	/124: L = 550mm/21.7" (503mm/19.8") /136: L = 854mm/33.7" (808mm/31.8") /148: L = 1160mm/45.7" (1113mm/43.8") /160: L = 1465mm/57.7" (1417mm/55.8") /172: L = 1769mm/69.7" (1722mm/67.8")
Field of View	Medium: 45° horizontal Wide: 70° horizontal Superwide: 90° horizontal
Diameter	38mm (1.5")
Optical Filter	Particulate-penetrating proprietary infrared filter
Cooling Requirements	Instrument-quality air*, 7-10 dm ³ s-1 @ 35-70 kPa (15-20 SCFM @ 5-10 psig typical) *Air quality to ISO 8573-1, Class 1-7-2

Enclosure	
Construction	Corrosion-resistant nylon cover; anodized aluminum body; NEMA 4, dust and waterproof
Cooling Type	Vortex cooled; instrument-quality air; 13 dm ³ s-1 @ 690kPa (25 SCFM @ 100 psig typical) optional
Ambient Environment	0° to 60°C (32° to 140°F) operating temperature

Mechanical	
Focus Adjustment	Optical focus adjustment screw located on back of enclosure
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



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Please contact your Mirion Technologies representative to advise any specific vibration or seismic qualification.

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The management system governing the manufacture of this product is ISO 9001:2008 certified.