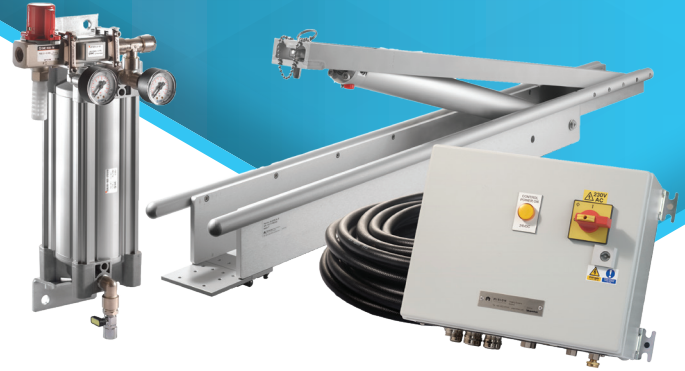


## HIGH TEMPERATURE CAMERAS

## M356™

*Retract*

## FEATURES

- Retract monitors pressure and flow for camera lens cooling. Pulls camera out of high heat if levels fall below preset values
- Operator override allows manual retraction for inspection and cleaning
- Multiple retraction lengths allow complete removal from boiler, kiln or furnace
- Remote control/monitoring versions available
- Universal power supply
- Temperature controller option

## DESCRIPTION

The IST-Quadtek® high temperature imaging camera systems are cooled by air or water. If the plant supply of air pressure, water or electricity is interrupted the M356 Pneumatic Automatic Retract System will retract the camera from the most severe heat, protecting it from serious damage. With the camera retracted from the intense heat the operator has time to arrive at the location and manually pull the lens clear of the viewport. Then they can track the coolant problem and re-install the camera. The M356 system works with the IST-Quadtek Bedbug®, Lynx® and Spyrometer® cameras, as well as cameras of many other manufacturers.

The M356 retraction system now includes a ruggedized safety air reservoir and additional options such as locking pistons for downward-inclined camera installations.

**SPECIFICATIONS AND PERFORMANCE**

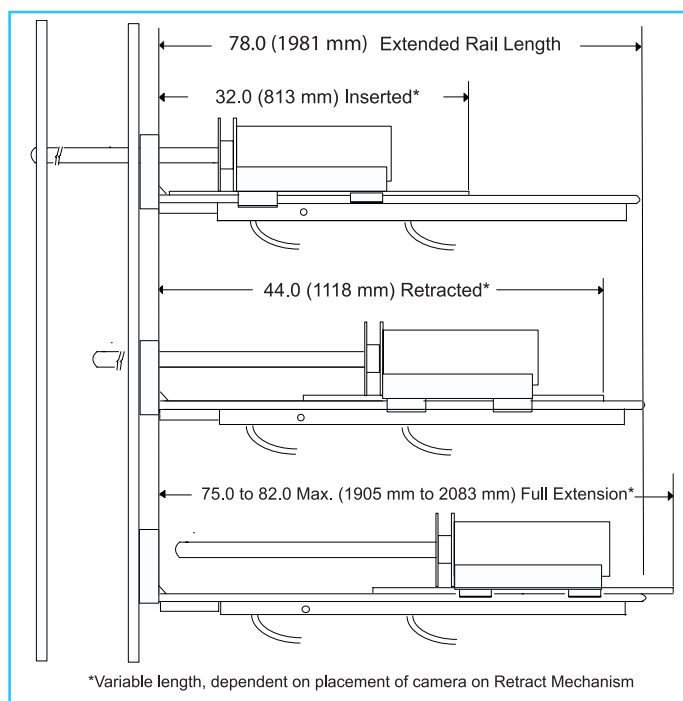
| Retract             |   |
|---------------------|---|
| Cylinder            | 50 mm (2 in.) bore with steel rod;<br>Standard<br>/AL12 - 305 mm (12 in.) stroke<br>Optional:<br>/AL18 - 457 mm (18 in.) stroke<br>/AL24 - 610 mm (24 in.) stroke<br>/AL30 - 767 mm (30 in.) stroke         |
| Power Specification | 100-240 V ac, 50/60 Hz  |
| Ambient Temperature | 4 °C to 71 °C (-40 °F to 160 °F)  |
| Retract Rail        | All aluminum construction;<br>Standard:<br>/RL42 - 1067 mm (42 in.) rail<br>/RL30 - 762 mm (30 in.) rail<br>/RL54 - 1372 mm (54 in.) rail<br>/RL66 - 1676 mm (66 in.) rail<br>/RL78 - 1981 mm (78 in.) rail |

| Reservoir        |   |
|------------------|---|
| Dimensions       | Clearance envelope;<br>490 x 240 x 225 mm (H x W x D)<br>(19.3 x 9.4 x 8.9 in.)                     |
| Mechanical       | ½ in. NPT female threaded inlet, five micron filter, check valve at inlet to allow one-way air flow |
| Air Hose         | Aeroquip SH925 (5 m)  |
| Air Requirements | Minimum 276kPa (40 psig)<br>Maximum 690kPa (100 psig)   |
| Air Storage      | Reservoir stores enough air for one retraction of the 762 mm (30 in.) stroke cylinder               |

| Reservoir                  |   |
|----------------------------|---|
| Operation Modes            | Automatic retract when air pressure drops below a set level or if power fails. For water cooled lens: Retracts when cooling flow drops below a set level. Camera can also be manually retracted and inserted by the operator. |
| Min Air Pressure Set Point | Factory preset to 2.5 psig (17 kPa) min. lens pressure  |

| Controller               |  |
|--------------------------|--|
| Min Water Flow Set Point | 1 gpm  |
| Controller Ambient Temp  | 0 °C to 50 °C (32 °F to 122 °F)                                |
| Physical Dimensions      | 305 x 254 x 127 mm (H x W x D)<br>(12 x 10 x 5 in.)            |
| Enclosure Specifications | NEMA 4 (IP54)<br>Sheet steel, dipcoat primed and powder coated |

| Sample Representation: 12 in. Retract and 72 in. Rail |   |
|---|---|
| Top Figure  | The pneumatic retract is fully inserted into the process  |
| Middle Figure   | The pneumatic retract has retracted the lens 305 mm (12 in.) from the heat of the process to the end of the cylinder stroke |
| Bottom Figure   | The lens and camera have been manually pulled back to the length of the extended rail                                       |



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