

ThermaScope® HTV

High Temperature Vision System

A new generation of Kiln and Cooler Cameras

ThermaScope® HTV High Temperature Vision Kiln and Cooler Camera improves efficiency, increases combustion control and reduces pollution.

- Low cost, high performance imaging
- Kiln or Cooler Camera
- Direct Output to CCTV Display



ThermaScope® HTV
Non radiometric High
Temperature Vision System

ThermaScope® HTV displays bright clear real time images of high temperature processes.

ThermaScope® HTV is a unique rugged instrument that sends real time images of the kiln or clinker bed to the control room. As fuel flow, operating conditions or fuel quality changes, **ThermaScope® HTV** gives operators and control engineers a clear image of the process.

ThermaScope® HTV has the following principle camera components:

- High resolution focal plane array imaging and temperature sensor
- Water cooled stainless steel protective camera housing
- Direct view with no alignment inaccuracies - simple field maintenance
- Automatic, fail-safe pneumatic camera insert/retract mechanism with camera interface, signal processing circuitry and services control unit
- Solid state for long term reliability you can depend on

UK Head Office

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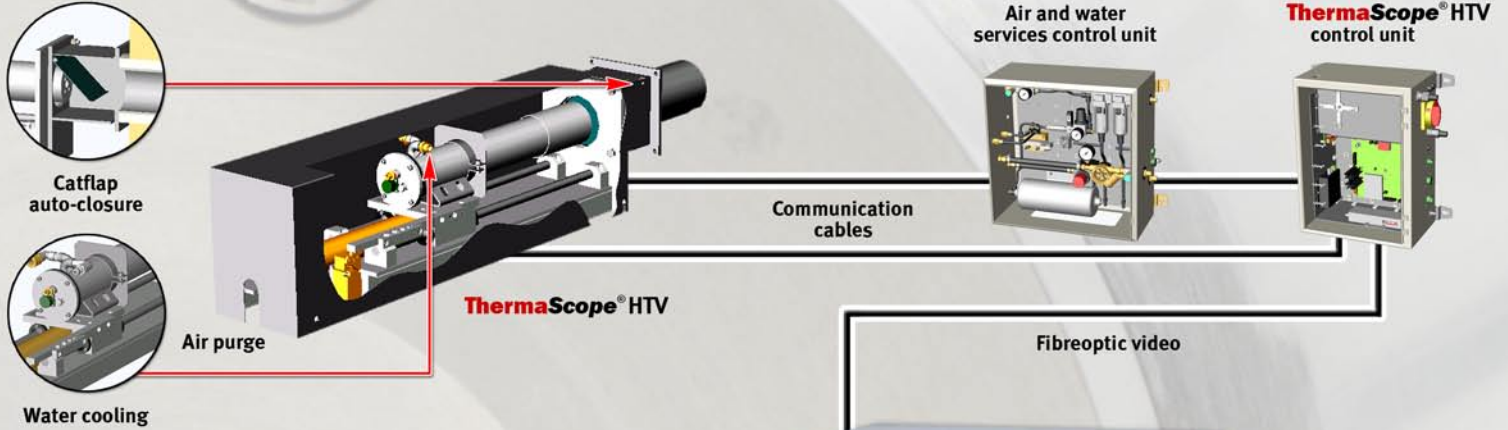
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ThermaScope® HTV camera and pneumatic controls are cabled via control box to the control room for display of real time kiln/cooler image.



ThermaScope® HTV may also be upgraded to **ThermaScope® SLK Infrared Temperature Measuring System**:



ThermaScope® SLK

ThermaScope® HTV Specification

Power requirement	110 or 240 Volts (auto detecting)
Sensor	Uncooled Silicon Focal Plane Array (FPA)
Resolution	768 x 494 pixels
Wave Length	0.6 - 0.8µ
Lens	Fixed focus 0.2m ~ Infinity
Effective aperture	Variable $f2.5 - f25$
Field of view (FOV) (3 Lens Options)	4 Lens Options: Diagonal 94° 81° 52° 37° Horizon 81° 69° 42° 30° Vertical 65° 54° 32° 23°
Response time	Video frame rate
Water flow	Typically 1 litre/min
Air pressure and flow	6 Bar 1.5 litre/min
Camera tube housing	400 mm water cooled jacket (custom length housings available)
Protection	Stainless steel protective safety cover Spring mounted retraction cover shield
Access hole	13-0mm diameter
Optional	Closed loop re-circulating water pump and chiller unit
Mounting	Wall sleeve (supplied) - weight 40kg

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