

HAZARD CONTROL TECHNOLOGIES, INC.

FIRE, VAPOR, AND CONTAMINATION CONTROL SOLUTIONS

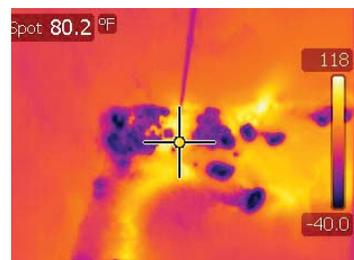
Thermal Imaging Cameras for Coal Handlers

Thermal Imaging Cameras provide valuable data for plant engineers, but their high price tag means they rarely leave the engineer's hands. The new E-Series *Point and Shoot* and E-Series *Performance* cameras are an economical, loss control tool that are durable enough for daily use to detect, monitor and log thermal anomalies throughout the coal handling system. These cameras provide coal handling operators with a high-quality thermal image to quickly scan for frictional heat build-up in the conveying system or signs of spontaneous combustion in silos, bunkers or stockpiles. This data is beneficial in enhancing a plant's predictive maintenance programs, detecting smoldering coal issues and helping to prevent thermal burn incidents. HCT is pleased to offer this combination fire detection, incident prevention and predictive maintenance tool that no facility should be without.

- Enhanced detection of spontaneous combustion
- Logged and recorded history of thermal anomalies
- Easily and quickly upload data to generate reports
- Scan enclosures for signs of combustion
- Identify hot spots for Emergency Responders
- Diagnose maintenance on conveying equipment
- Inspect post-hot work areas during fire watch
- Assess fire, overhaul and verify extinguishment



Discover overheated bearings and rollers before failure



Pinpoint suppression efforts using a piercing rod and 1% F-500 EA

E- Series *Point and Shoot* Features

E-Series Point and Shoot cameras are the perfect tool for coal handling operators to use during daily walk-downs. The new E-Series cameras have a wider view to let you see the whole picture with thousands of precise temperature measurements in every image. E-Series cameras are faster and easier to use than spot radiometers and are more accurate. E-Series cameras are an excellent tool for detecting thermal anomalies in the coal yard, conveying system or coal silos.

Compact and Rugged - Easy to use, one handed operation, focus-free lens and tough enough to store in your toolbox

Groundbreaking Affordability - Economical price includes all the features needed to detect issues at an early, manageable stage.

Radiometric Images and Visible Images - Stores hundreds of JPEG images with temperature measurements in your camera for future analysis or downloading.

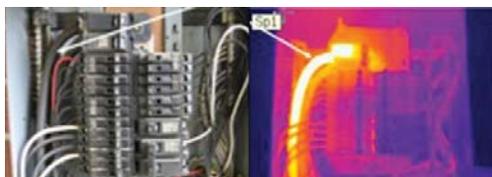
Excellent Screen Size and Quality - High-resolution color 3" LCD display with a wider field of view to pinpoint problems fast

Plenty of Extras - Includes PC reporting software, rechargeable battery and a carrying case

Excellent Warranty - 10 years Detector Protection, 5 years Battery and 2 years on Parts and Labor



E-Series Point and Shoot Camera



Electrical Troubleshooting - Find hidden electrical problems and make timely, efficient repairs



E- Series Performance Features

The new E-Series Performance Cameras can find problem areas faster. With three models to choose from you will find the best model to suit your needs. The E-Series is an affordable camera with superior resolution, an intuitive touchscreen, 60 Hz real-time frame rate, Wi-Fi connectivity and other features generally found on more expensive models. These cameras are ideal for fire brigade coordinators directing and recording suppression efforts in the plant or on training grounds. Coal handling supervisors can use the E-Series for daily walk-down or investigating thermal activity detected by operators.

Superior Thermal Imagery - Up to 76,800 pixels (320 x 240) for better long range accuracy and the highest level of IR resolution. Shoot 3.1 mp images or MPEG4 video.

Built-in Digital Camera and Laser Pointer - The camera records visible light pictures to reference with the thermal images for impressive documentation. A laser pinpoints a reference spot that corresponds to a marker on the screen for precise detection.

Mobile Device Wi-Fi Connectivity - Images and data can be sent instantly to an Apple or Android tablet or smartphone to share reports and critical information quickly.

Large, Bright Landscape Touchscreen - With a 3.5" display that is brighter than other brands, the E-Series touchscreen has an intuitive interface.

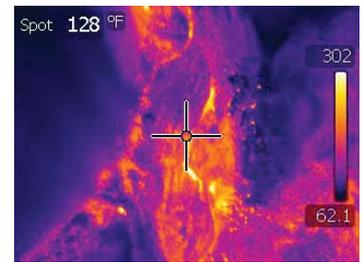
Scalable P-i-P and Thermal Infusion - Thermal images can be overlaid on visible images for better documentation and location of trouble spots.

Multiple Measurements - Add up to 3 box areas and 3 moveable spots using the touchscreen to gather more detailed temperature information.

Instant Report - Generate a professional PDF document directly from the camera.



E-Series Performance Camera



Identify temperature and location of thermal anomalies in the coal handling system

Imaging Specifications

Model	E-Series Point and Shoot				E-Series Performance		
	E4	E5	E6	E8	E40	E50	E60
	TI-F-107	TI-F-108	TI-F-109	TI-F-110	TI-F-104	TI-F-105	TI-F-106
Imaging							
Resolution	80 x 60	120 x 90	160 x 120	320 x 240	160 x 120	240 x 180	320 x 240
Total Pixels	4,800	10,800	19,600	76,800	19,200	43,200	76,800
Maximum Temperature	482°F (250°C)				1,202°F (650°C)		
Color LCD	3.0" Color LCD				3.5" Touchscreen		
Field of View	45° x 34°				25° x 19°		
Video Camera	—	—	—	—	Yes	Yes	Yes
Laser Pointer	—	—	—	—	Yes	Yes	Yes
Frame Rate	9 Hz				60 Hz		
Other							
File Storage	JPG to USB	JPG to USB	JPG to USB	JPG to USB	JPG/MPEG4 to SD card	JPG/MPEG4 to SD card	JPG/MPEG4 to SD card
Wi-Fi to Apple and Android	—	—	—	—	Yes	Yes	Yes
Battery Operating Time	Lithium-Ion / 4 hours				Lithium-Ion / >4 hours		

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Specifications are subject to change without notice. ©2014 Hazard Control Technologies, Inc.



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