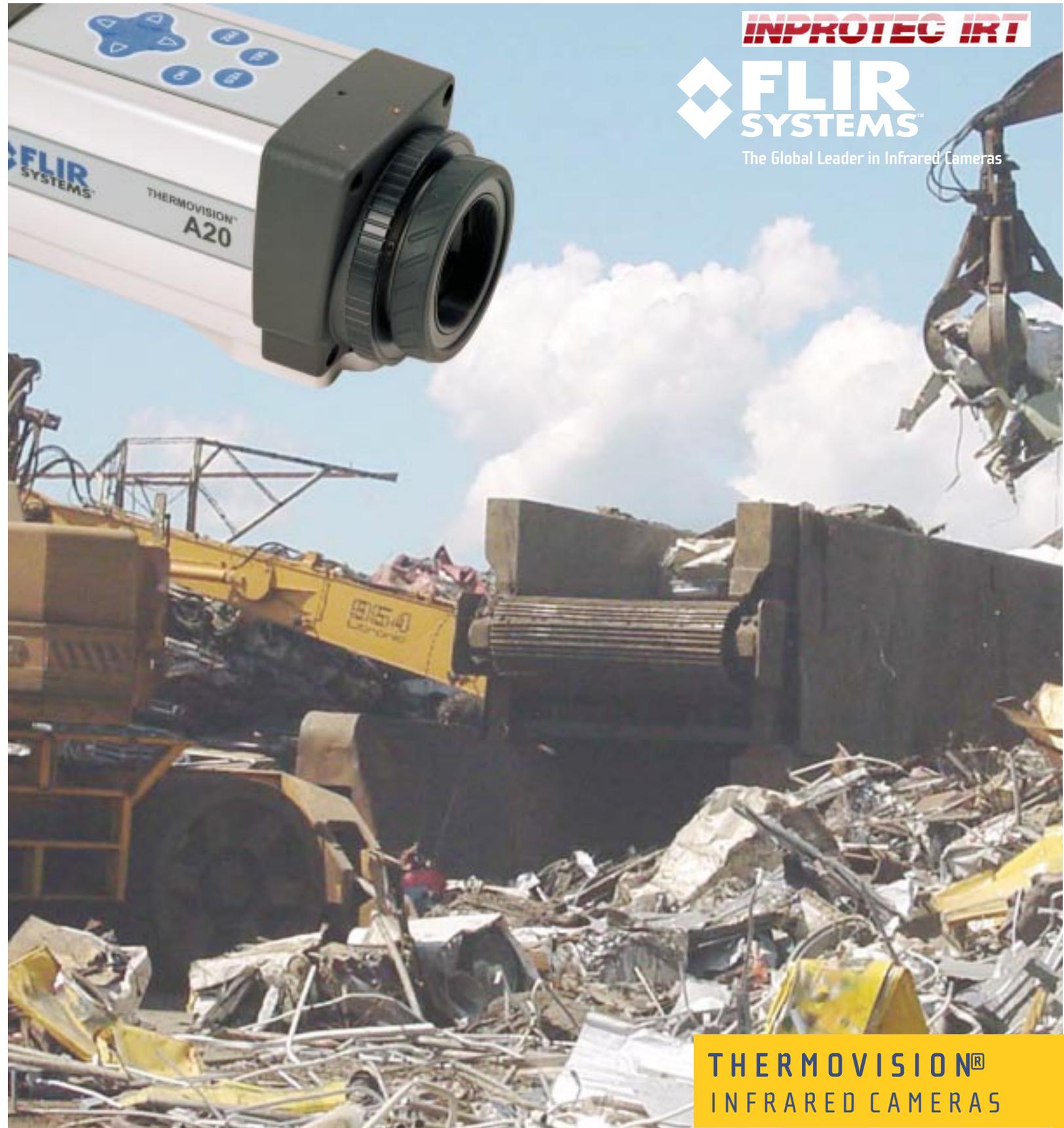


INPROTEC IRT



The Global Leader in Infrared Cameras



THERMOVISION®
INFRARED CAMERAS



PROCESS MONITORING
METAL SHREDDING

| MONITOR

| PREVENT

| CONTROL

SEE THROUGH SMOKE, FOG, STEAM OR DARKNESS WITH INFRARED!

Infrared cameras operate inside the infrared “heat,” or thermal, spectrum, and can see through smoke, fog, steam, or darkness where the human eye cannot. By seeing in the infrared, industrial workers can eliminate a wide range of problems that can slow down – or shut down – production as well as enhance operational safety.

The new FLIR ThermoVision® A20 is a breakthrough in infrared camera design and performance. It is ideal for the scrap metal processing environment and any industrial environment in which steam, smoke, fog, or darkness obscure normal vision. Small, lightweight, and rugged, the A20 can be fixed- or swivel-mounted on cranes or virtually anywhere in the processing environment.

In metal shredding operations, smoke, fog, steam, and darkness can make it impossible for workers to visually monitor intake chutes, milling and conveyor systems, and grinders. As a result, these systems can become clogged, leading to equipment damage and costly halts in production. At night, artificial lighting can create reflections and cast shadows, further compromising ordinary vision. The A20 can enable nighttime operators to see clearly through the darkness and keep production safely on-line.



The A20 is ideal for monitoring industrial process applications. Small and rugged, it is very easy to set up and plugs directly into an Ethernet or FireWire® network. Its crisp infrared images can be observed on monitors close to the operation or in a distant control tower – anywhere there is a network connection.

The A20 provides four independent target spots and six alarming modes that can be controlled from anywhere on the network or on the camera itself to meet the most demanding monitoring and control tasks. It accepts interchangeable lenses to accommodate a wide range of target areas. Easy-to-understand menus guide the user through all of the configuration options.

FLIR Systems is the world's largest manufacturer of commercial-grade infrared cameras, with over 30 years experience and tens of thousands of systems in use worldwide. We invite you to take advantage of this effective and affordable technology in your operations today. You'll be amazed at the improvements to productivity and worker safety.

Features

- Affordable
- Rugged, lightweight, fixed- or swivel- mount
- Wide-angle field-of-view and accepts interchangeable lenses
- Withstands harsh industrial environments
- Allows you to see through, smoke, fog, steam or darkness!
- Easy to operate
- Plugs into Ethernet or FireWire® networks

Benefits

- Facilitates production day or night
- Saves time and money
- Improves worker safety
- Pays for itself!

SEE WHAT YOU ARE MISSING...

In this application, the infeed chute supplies large scrap metal components to a grinding mill. Steam, darkness and sometimes fog previously prevented the operator from seeing and controlling the intake stream, causing jamming of the machine and frequent production shutdowns. The infrared image provided by the FLIR ThermoVision A20 camera allows the operator to see clearly and control the supply rate to maintain consistent productivity.



The infrared image is displayed on a computer monitor in a control tower. The operator can readily monitor the process and make appropriate adjustments on a control board. Without infrared, the operator would have no visibility on his production.



Designed to withstand harsh industrial environments, the ThermoVision A20 is equipped with a protective steel case, allowing it to be positioned just above a high-capacity metal shredder, keeping it safe from high temperatures, water, metal projectiles and even an occasional explosion.



INFRARED SUCCESS STORIES

Need Title

*Chris Forrester
Tacoma WA Shredder Operator*

"Since our IR camera installation, my visibility problems have been almost eliminated. I used to have constant problems being able to see the infeed chute and material going into the mill. These problems were caused by steam and lack of lighting. The camera eliminates the problems with steam by allowing me to see through it, and day or nighttime running has no effect on the picture. This allows me to maintain a more constant feed rate and to know exactly what I am feeding into the mill at all times, reducing the chance of a jam."



Need Title

*Mike Cataldo
Tacoma WA Shredder Manager*

"The benefits from our IR camera installation were obvious right from the start. We noticed our motor operating efficiency went up in the first few days, which allows us to maintain a more stable thermal motor temperature. We also noticed a slight increase in output tonnage. The largest return from the camera has been reduced downtime. This downtime was the result of the motor being stalled because the operator could not see the material being fed into the mill. One such occurrence cost us over 7 hours of downtime clearing the mill and preparing to restart. The camera paid for itself in a matter of weeks."



Per maggiori informazioni contattare:

INPROTEC IRT

Via Beethoven, 24
20092 Cinisello Balsamo (MI)
Italy
Tel. +39-02-66.59.59.77 Italy
Web: www.termografia.eu
e-mail: info@inprotec-irt.it

