

# THERMAL IMAGING CAMERAS



heat signature a informed operator will be familiar with any abnormalities for that aircraft. The possibly getting to the seat of the fire is increased by the use of these types of cameras. By using a TI camera evaluating the information received from flight crew, visible smoke and other possible indicators your ability to get as close as possible to the origin of the fire is improved.

The Thermal Imaging Camera becomes even more useful and important on the cargo incident where a pinpoint application is required. Operators should have a good working knowledge of a normal TI image for the aircraft that frequent their airport so any abnormalities will be easily recognized.

## TARGET CONSIDERATIONS FOR PASSENGER AIRCRAFT

Windows are the best option to get the tip inside quickly. Only 10 clips hold the window in place in Boeing aircraft. By pushing the window in with the penetrator tip you create a large opening. This opening does not allow the possibility of the penetrator being damaged by an unwanted boom command.

spotting your apparatus you need to consider the ground operations of your companies. Do not impede the stair truck or ground members accessing the aircraft. Remember that they will be trying to open all doors that are not opened. Passenger evacuation routes or evacuation paths will give an indication of where the fire could possibly be on the inside of the aircraft. The objective of the penetrator operator is the help the passengers by changing the environment inside the aircraft. A number of factors can be used to evaluate how best to affect the environment.

## FIRE LOCATION DETERMINATION

There are a number of ways to determine the location of the fire on a passenger aircraft. Physical identifiers, such as paint bubbling, fuselage skin color, evacuation paths, (the passengers will be exiting away from the fire and heat) and smoke columns can be used to indicate the location of the fire inside the aircraft. Information received from pilot or flight

crew on the discrete frequency can be helpful also. The best tool in determining the location of the heat source or fire in the aircraft is the Thermal Imaging Camera.

The Thermal Imaging Camera helps you understand what is going on inside that aircraft. Aircraft will have normal hotspots and therefore do not necessarily indicate a hidden fire. With an understanding of the aircrafts normal

