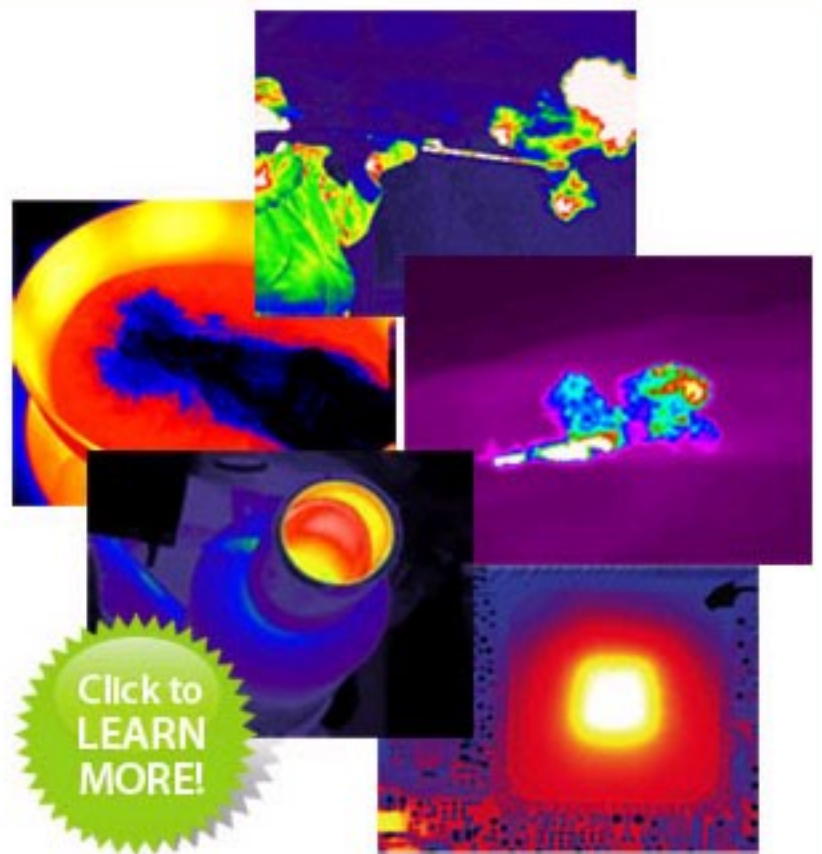


# Achieve Remarkable Results with LWIR

Recent studies have shown that imaging in the long-wave infrared (LWIR) spectral region with cooled photovoltaic infrared detectors has the ability to deliver remarkable performance that is otherwise unrealizable by any other infrared imaging means. Examples as shown below include:

- ▶ Acquiring infrared target signatures at a great distance
- ▶ Viewing high speed thermal events
- ▶ High dynamic range infrared imaging (cold and hot objects in one frame)
- ▶ Imaging of very cold objects

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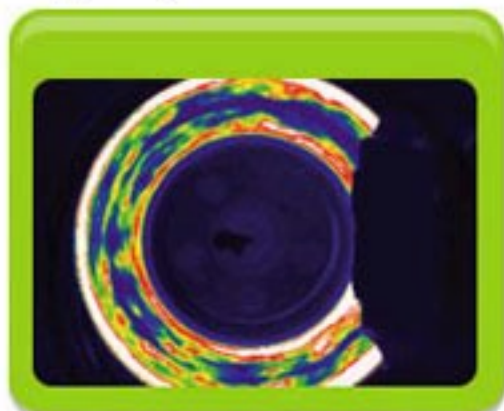
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## Infrared Target Signatures ▶



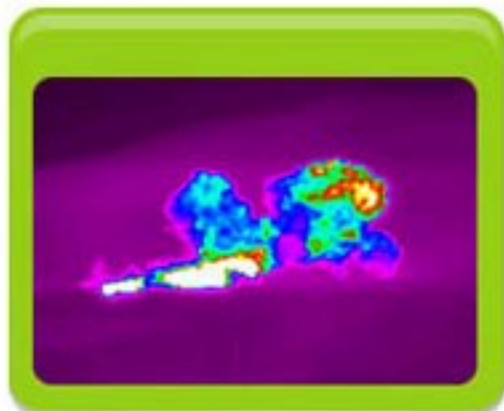
Because an object's radiation drops in proportion to the cube of its distance, and due to atmospheric windows in the LWIR band, only very sensitive LWIR imaging can detect radiation from objects at great distances.

## High Speed Thermal Events ▶



In order to accurately measure the temperature of high speed events, LWIR imaging permits the analysis of the radiation from objects for times as short as a few microseconds.

## High Dynamic Range IR Imaging (wide thermal range in one frame) ▶



When observing scenes having very wide temperature ranges (from ambient to >2000K), imaging in the LWIR band delivers superior results (attributable to the relatively small flux distribution in the LWIR band when compared to the MWIR band).

## Cold Object Infrared Imaging ▶



Many infrared scenes involve imaging scenes having very little infrared radiance such as with the cold atmosphere or winter climates. LWIR imaging is a necessity for imaging in these situations.

## Simply the Highest Performing LWIR Infrared Cameras Available Today!



Titanium 530L LWIR ▶



Titanium 590VL VLWIR ▶

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