Technology

Acquiring imaging information, at the fastest time possible has become key for battlefields engagement, natural disasters response and scientific endeavors.

However, current optical devices used in emergency situations have yet to deliver the image quality and the speed of retrieval required for any respondent to react.

Researchers at UAHuntsville have designed and developed a new camera system, that simultaneously collects information from any portion of the electromagnetic spectrum and processes the information in real time, while blocking out the unwanted light outside the area of interest.

Unlike conventional cameras, the system covers a wide field of view, with zoom-in capabilities at approximately 1000 times, without compromising image quality.

Applications

- Intelligence, Surveillance, and Reconnaissance (ISR) — Department of Defense
- GPS Coordinates and Data Analysis — Tax collection and insurance companies
- Precision Agriculture
- Oil Exploration
- Aerial Archeology
- Meteorology
- Disaster Relief

Advantages

- High Image Quality
- High Resolution
- 1000X Zoom

Status

State of Development: Prototype
Licensing Status: Available for licensing
Patent Status: Pending