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# Services

## Spectral Measurement Services

QuantaSpec offers spectral measurement services that provide spatial and spectral resolution for customer supplied samples. Transform Infrared (FTIR) spectroscopy, Infrared micro-spectroscopy, and Infrared focal plane array (FPA) are available. QuantaSpec uses a state of the art Bruker Hyperion 3000(TM) IR microscope with a focal plane array (FPA) to collect spectral images in minutes that would take a conventional IR microscope days. QuantaSpec can collect spectra in minutes using attenuated total reflection (ATR).

## Spectral Analysis Services

QuantaSpec's spectroscopists can interpret customer supplied spectra. For example, spectral analysis can detect and identify unknown compounds. QuantaSpec's staff are also available as expert witnesses.

## Contract Research & Development

QuantaSpec Inc. performs contract R&D services for government and commercial sector clients. Core competencies include:

- Development of Algorithms to Identify Pathogens in Complex Environmental Samples (e.g., environmental samples, blood, etc) based on Infrared Spectroscopy
- Design and Development of Prototype Infrared Spectral Imaging Systems
  - Differential Absorption LIDAR for Standoff Explosive Detection
  - Chemical Agent Detection Systems
  - Biological Agent Identification Systems
  - Spectrometers with No Moving Parts
  - Quantum Cascade Laser Systems
  - Combat ID
  - Medical Diagnostics
  - Food Safety
  - Blood Product Safety
  - Process Control/ Quality Control/Quality Assurance

