

## Key information

- **Offices**  
29765 Town Center Loop W  
Suite 4,  
Wilsonville, OR 97070
- **Contact**  
Andrea Van Landingham  
VP Business Development  
Office phone: (503) 570-3296  
Cell phone: (503) 504-6555  
Email:  
avanlandingham@theiatech.com
- **Website**  
<https://www.theiatech.com/>
- **DUNS Number**  
790296763
- **NAICS Codes**
  - 333314
  - 541330
  - 541690
- **CAGE Number**  
4MPG8
- **Certifications**
  - ISO: 9001:2015
  - CE Certification
- **GSA Schedule** – through distributor Anixter
- **Accept Gov't Credit Cards**  
VISA  
MasterCard  
American Express

For more information,  
please call or email:

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Landingham**  
**(503) 570-3296**  
**avanlandingham@  
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# Theia<sup>®</sup>

## TECHNOLOGIES

### Capabilities Statement

#### Summary of Services

Theia Technologies applies American innovation and ingenuity to deliver high performance precision optics to meet the exacting requirements of aerospace, defense, security, machine vision, robotics, and other industrial imaging applications.

#### Capabilities or Core Competencies

- Innovative, award-winning optical designs
- High precision, high quality manufacturing
- High resolution, near diffraction limited performance optics
- Excellent Near IR correction with very minimal focus shift
- Lenses with Motorized zoom, focus, iris, IR cut filter
- Compact, lightweight, robust designs

#### Areas of Expertise

- **Ultra Wide, No Distortion Images using patented technology**  
Theia's patented Linear Optical Technology<sup>®</sup> is used to correct barrel distortion in wide angle images optically, without de-warping software and its inherent latency.



- **Custom Lens Design**  
Theia Technologies offers optical engineering design services along with high-end lens manufacturing. We contract with a Japanese optics manufacturer as well as ITAR-compliant US partners to produce lenses.
- **High Resolution & multi-spectral**  
Theia designs and produces high resolution optics in visible and NIR spectra at 300lp/mm MTF in fisheye, wide angle, standard and telephoto focal lengths, in fixed and varifocal options, motorized and non-motorized.
- **Compact Telephotos**  
Theia's telephoto, varifocal lenses allow provide up to 4k resolution in visible and Near IR in a compact 64mm envelope. Their impressive performance in a compact, lightweight size make them perfect for high detail applications.
- **Motorized Lenses**  
Theia's motorized lenses are designed for integration into cameras for facilitating autonomous and remote operation. Lenses may include motorized zoom, focus, iris, IR cut filter and require motor drivers/controllers.

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## Past Performance

- **NASA Global Hawk Drone**  
NASA's GLOPAC environmental science mission studies gasses, dust, and other atmospheric constituents from the Global Hawk unmanned vehicle platform. The High-Definition Video System used a 5 megapixel camera and Theia's MY125M lens with Linear Optical Technology®.  
Video Link: <https://vimeo.com/548591463>  
Reference: Patrick Grant, [patrick.s.grant@nasa.gov](mailto:patrick.s.grant@nasa.gov)
- **JAXA the Hayabusa II program**  
JAXA's Asteroid Explorer "Hayabusa2" deployed the MINERVA-II rovers to explore the surface of asteroid Ryugu on 21 September 2018. The MINERVA-II consists of two rovers that both landed on the surface of asteroid Ryugu and sent back images and a short movie taken using Theia Linear Optical Technology® in the lens.
- **Northrop Grumman DARPA CT2WS Project**  
This project is a wide field of view target identification system that would assist soldiers in locating potential threats in the field. The system included cameras for viewing the scene, electronics and processing algorithms in a hand held binocular system.

## Awards, Recognition, Professional Organizations

- **Awards:** Vision Systems Design Silver Innovators Award 2019, SIA New Product of the Year Award 2016, Security Products Magazine New Product of the Year Award 2016, SIA New Product Showcase Award 2011, Government Security News Homeland Security Award 2009, SIA New Product Showcase 2008, SSI Show Stealer Award 2007
- **Memberships:** Security Industry Association, Pacific Northwest Defense Coalition, Association for Advancing Automation

## Recommendations and Quotes from Clients

*"The motorized features that [Theia's] lens provided were essential"*  
-Niladri Roy Manager of Factory Applications Teledyne Lumenera

*"The advantage of Theia lens is the range of adjustment of the focus and zoom"*  
-Ricardo Anselmo Andriani Director of Innovation Pumatronix