



360° Persistent Sensor (360PS)

Phase 1 Prototype

Advanced Fusion Technologies

Jeff Krueger
HTDV

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Problem

Current panoramic solutions introduce

- Lost data with moving platform
- Distortion with fish eye lens



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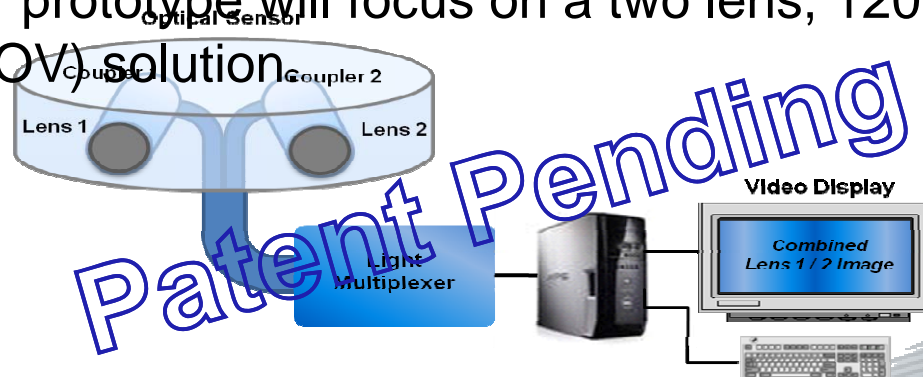
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Solution



- Provides improved 360-degree Situational Awareness (SA)
- Provides lossless, non-distorted, coherent image.
- Enables weight, power and cost savings over existing tactical solutions.
- Phase 1 prototype will focus on a two lens, 120-degree Field-of-View (FOV) solution.



Patent Pending

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Team

Kauai

- Jeff Krueger: Sr. Systems Engineer
- Gilbert Maerina: Sr. Software Engineer

Virginia

- Mark Casolara: Chief Engineer

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Status

Accomplishments

- Completed vendor analysis on optical lens, fiber bundle and light multiplexer.
- Completed Requirements specification
- Completed Image Processing architecture and design

Next Major Milestones

- Complete Optical Sensor Architecture / Design
- Complete Data Capture Architecture / Design
- Procure / Fabricate optical components

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Company Profile

(This information to be included in Industry Directory)



- Company name: Advanced Fusion Technologies
- Date Founded: 2007
- No of employees: 6
- DBAs:
- Business areas: Interface Conversion Products, SOA Data Distribution, FPGA Implementations, Optical Imaging, Model Driven Development (MDD), UML Modeling
- Latest or most relevant Projects, Products, Services, Spin offs, etc: Open System Interface Converter (OSIC), 360° Persistent Sensor (360PS), Model Driven Development (MDD) Products
- Company logo:



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