

## PROBLEM STATEMENT

Warfighters often find themselves with a lack of situational awareness (SA) in close quarters and confined spaces. Whether clearing rooms, attics, and stairwells, or simply seeking basic reconnaissance about what lies down the next hallway, teams require real-time SA to make life-and-death decisions.

Current solutions to this problem include small UGV or micro-UAS. However, these solutions are often:

- Too expensive to be carried at the Team level
- Are a burden on the Warfighter to carry/deploy
- Utilize single sensors with a limited field of view
- Provide unstable video

## CAPABILITIES STATEMENT

The Bounce Explorer Recce 360 is a tactical, throwable 360-degree camera which allows Warfighters to gain immediate 360-degree situational awareness during the critical last 30 meters of reconnaissance.

Cameras use unique image-stitching method, utilizing a unique patented process, resulting in stitching of images 200x more efficiently than traditional methods.

Technology can be applied to any form factor (throwable cameras, K9 cameras, vehicles, etc..)

## CAPABILITY DIFFERENTIATORS

### ***DIGITALLY STABILIZED VIDEO***

- Cameras capture and instantly transmit digitally stabilized video to end users
- Practically, this means ball can spin on a rope or roll down a hallway and still provide usable video feed

### ***RIGHT SIDE UP ORIENTATION***

- Video always remains "right-side up," and oriented in the direction set by end user

### ***ULTRA EFFICIENT IMAGE STITCHING***

- Image stitching is 200x more efficient than other methods

### ***DEMONSTRATION VIDEO LINKS***

- [Horizontal Stabilization Video](#) (YouTube)
- [Vertical Stabilization Video](#) (YouTube)
- [Tactical Video Demonstration](#) (YouTube)

## KEY PRODUCT SPECIFICATIONS



**Recce 360  
Mini**

- (A)TAK integrated
- Wi-Fi, 4G LTE, MANET
- On-board IR illumination
- 6 x Low light imagers
- Drop-tested 26 times from 7-ft on concrete
- Fully stabilized video
- Integrated mount point
- Certified IP54
- 2-Way audio
- Weights >1 lbs.
- Baseball sized

## COMPANY SNAPSHOT

Small Business, founded in 2012, at Harvard I-Lab

First commercial sales in 2016

Facilities in Massachusetts, Pennsylvania, & New York

Company holds 6 patents

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## PAST PERFORMANCE



- Awarded Direct to Phase 2 SBIR
- AFWERX 19.2 Cycle – \$750K
- Focus on Integration of Trellisware Module



- Selected as Finalist for ARL's xTechSearch
- Awarded \$120K+ to develop proof of concept for thermal camera

**Cameras in use with over 350+ Federal, State, & Local Law Enforcement Agencies**

**Over 360+ cameras purchased by US DoD**

## COMPANY INFO

**NAICS CODE:** 334310

**DUNS:** 078766294

**CAGE:** 6ZHP5

**EIN:** 45-5527833