



Liberty
Defense

Boston office / HQ - Engineering



Atlanta office / Engineering



On-Person Screening Using Video-Rate Millimeter-Wave Imaging

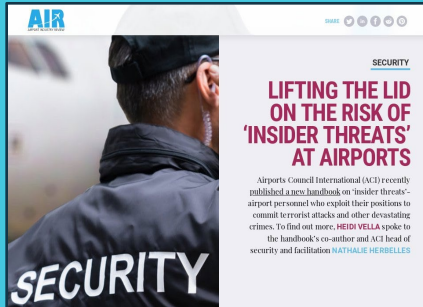
Mike Lanzaro
President and CTO

November 15th, 2023

So What and Who Cares ?



PROBLEM

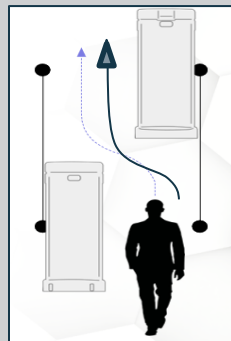


SOLUTION

HexWave:



Airport Install
Aviation Worker Screening



Walk-Through
S-Config



Threat Items
Metallic & Non-Metallic

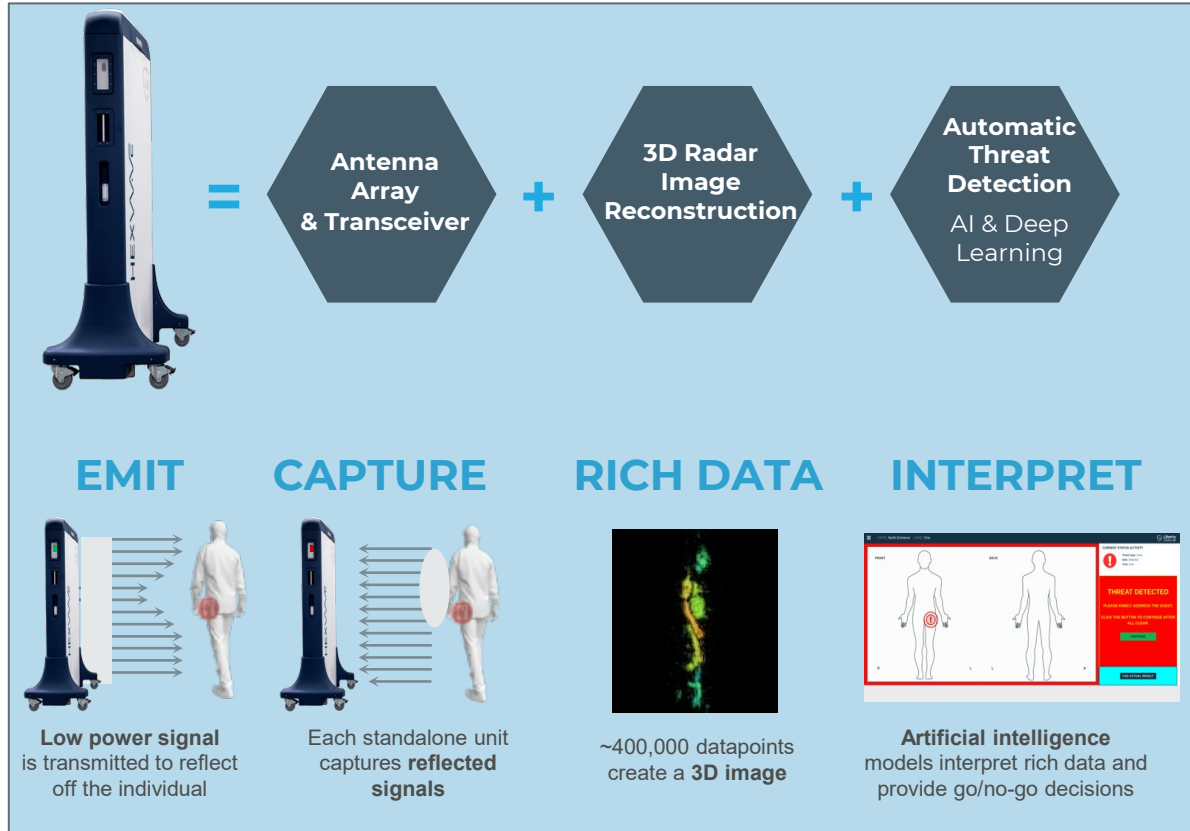
Market Space Focus:

- Urban Security & Aviation Workers

Product / Technology Discriminators:

- Video-Rate MMW Imaging (UWB)
 - MIT LL licensed technology
- Divest / Non-Divest Options
- Metallic & Non-Metallics Detection
- ATD Algorithm Configuration Options
- Portability (140lbs. / Wheels)
- Walk-Through (700+ people / hr)
- Indoor / Outdoor
- Open Architecture (IOT / VMS integration)

TECHNOLOGY OVERVIEW



Key Advantages over an Airport AIT

- ❖ Significant Throughput Advantage
 - ❑ Screening While in Motion via Video-rate Imaging
- ❖ Substantially lower cost / price
- ❖ Frequency Band
 - ❑ 6 – 10.6ghz (UWB) → clothing layers become more transparent
- ❖ Portability (140lbs. / Wheels)
- ❖ Divest / Non-Divest Options
- ❖ Indoor / Outdoor
- ❖ Open Architecture (IOT / VMS integration)

Note: AIT systems meet TSA / ECAC Checkpoint Certification standard

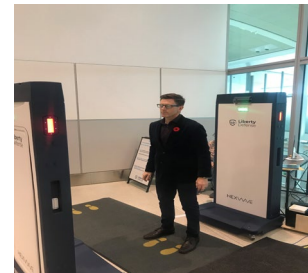


Current Status

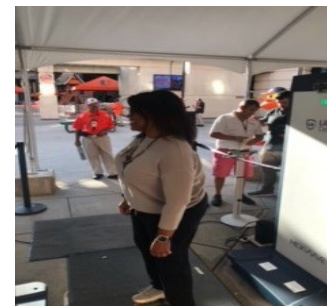
- ❑ Successful completion of 10+ customer trials
 - ❖ MLB Stadium, Place of Worship, State Buildings, ...
 - ❖ Major Airports: Denver, Toronto, Charlotte, LAX, LGA, ...
- ❑ Recent completion of a NATO trial ... results to be published
- ❑ Production ramp started in September; Backlog includes
 - ❖ Los Alamos National Lab, GTAA / Toronto Airport, Elkhart County Courthouse
 - ❖ OSI / Rapiscan, Smiths Detection
- ❑ Continued Trials and Evaluations going on at US airports
- ❑ System recently delivered to TSA / TSL
 - ❖ Part of TSA's On-Person Screening Capability Program



Charlotte Airport



Toronto Airport



MLB Stadium