



V O C A L Y T I C S A I

Acoustic Ambient Intelligence

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About Vocalytics

SXSW Finalist '21

Our Story

Previously launching & scaling a behavioral insights startup unlocking security camera videos with AI, our founder realized **connected microphones are everywhere.**

Having **built the playbook to integrate** with physical world infrastructure, we understood more than 2 billion CCTV systems, 100M+ smart speakers, and other connected microphones are everywhere & the software finally exists to extract value from these widely distributed listening posts. The time was now for a **acoustic** solution to **enable critical care alerts, protect facilities, and provide ambient intelligence for essential workers today.**

Meet Our Leadership Team

We are experienced entrepreneurs who all cut their teeth in enterprise & high technology leadership across AI/ML, Product & Business for Smart Facilities, Retail, & Defense.



VAN WEST

CO-FOUNDER, CEO

- First hire for an enterprise SaaS computer vision startup, scaled to 65 headcount, 3 offices globally in under 2 years.
- Hired 14 & operationalized first channel engagement team across US in the first month.
- Solely responsible for 1000% ROI for a channel sales campaign in under 30 days.



ISAK BOSMAN

CO-FOUNDER, VP ENGINEERING

- Developed an AI-based behavioral prediction engine to help fight child sex abuse, showcased at the UN Summit in Geneva.
- Built AI Document Understanding Solution (beat MSFT, Google & Amazon text & segmentation solutions - 99.7% Accurate).
- Shipped highly secure (NSA, DoD) low-latency cross-platform data synchronization engine for mobile and desktop.



WILLIAM SCHNEIDER

CO-FOUNDER, VP MARKETING & BRAND

- Established creative & branding agency, 15 years. Consistent 120% YoY growth over past 5 years.
- Built marketing department for DoD prime contractor supporting growth from \$10M to \$300M in under 3 years.
- Scaled a medicare marketing team, grew site traffic 14,000% with 90% close rates for inbound referrals.

Meet Our Advisory Board

Vocalytics' world-class advisors include an IBM Watson Master Inventor, and the Founding Chief Innovation Officer of the VA.

NEIL SAHOTA

IBM Watson Master Inventor & Watson Patent holder, United Nations AI for Good

MICHAEL AKINYELE

Veterans Affairs (VA) Founding Chief Innovation Officer, Deloitte, Stanford

JON STINE

20+ years Intel & Cisco Exec, Retail, Hospitality, IoT, AI, MIT Open Voice Network

MIKE RUDOLPH

20+ years CTO / Tech Executive, Multiple Voice AI Analytics Patents, CTO YouMail

JASON MCDOWALL

Ex-Salesforce Exec, 2 exits, Sales Acceleration & Product Executive



Problem

The **health, safety, and security** of essential workers is increasingly costly, operationally complex, and enterprises are unable to respond in critical moments, resulting in high business liability & massive revenue loss.

Enterprises can't hear, understand, or react fast enough for the health, safety, and security of the most essential workers in today's fast paced and rapidly evolving world.



100M

essential workers



1 in 4

workers are at-risk



\$576B

economic impact

COVID-19 has proven current solutions are ineffective and leave essential businesses vastly underprepared in times of crisis.

AI Ambient Listening Software Solution

Vocalytics is an AI software that listens to ambient noise, analyzes events & trends, and sends real-time alerts to improve essential business operations, reduce cost, and drive tangible business outcomes.

Turn **Dumb Noise** into **Intelligent Sound**



LISTEN

Setup is as simple as plug and play.

Get started with a simple software integration that easily integrates with your tools. Tell Vocalytics what you want to listen for, and you're up and running.



ANALYZE

Engineered to meet your listening needs.

Analyze the severity & frequency of acoustic biomarkers. Finely tuned APIs enable real-time analysis of collected data and turn dumb noise into intelligent sound.



ACT

Real-time data working for you.

Utilize the collected voice or sound intelligence data by monitoring insights & trends and act on critical in-the-moment intervention alerts.

Solutions

HEALTH



SAFETY



SECURITY



EXPERIENCE



PREVENTATIVE MAINTENANCE



ENERGY MANAGEMENT



Vocalytics AI Software is Plug & Play

on any connected microphone,
and if you don't have one, we do!

We've layered software cleanup technologies for today's noisy world with:

- DSP (Digital Signal Processing)
- DOA (Direction-of-Arrival)
- Noise Reduction
- Echo Cancellation
- Sound Source Localization
- Adaptive Beamforming
- And other proprietary techniques

* Full product spec sheet available upon request



Turn Dumb Noise into Intelligent Sound

500+

sound
classifications

97%

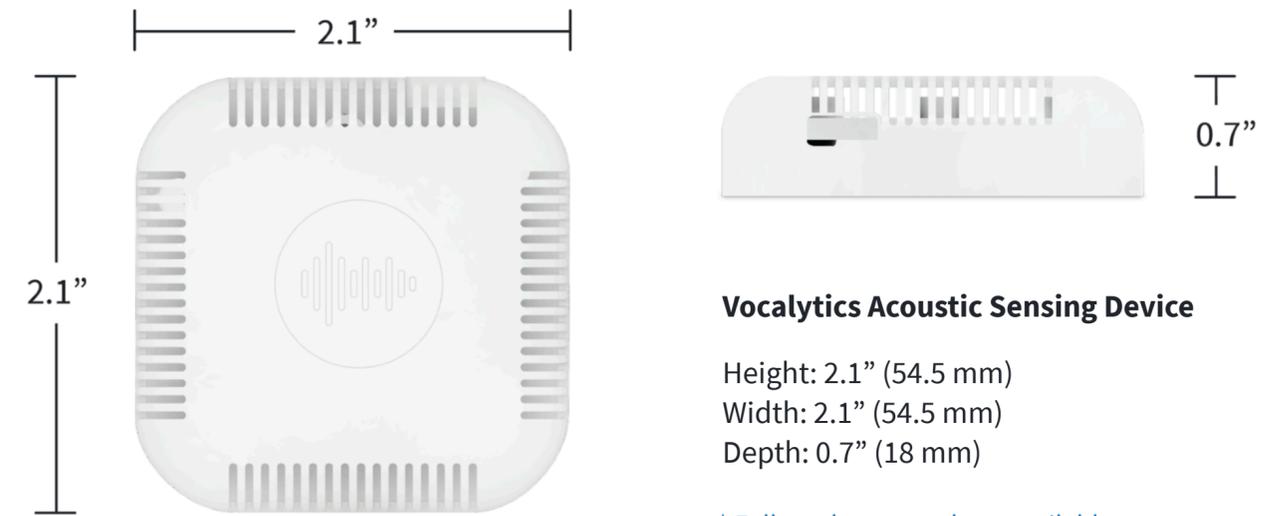
model accuracy

5k+

hours of
audio training

Vocalytics Is Your AI Software

And customers love **our acoustic sensing solutions.**



Vocalytics Acoustic Sensing Device

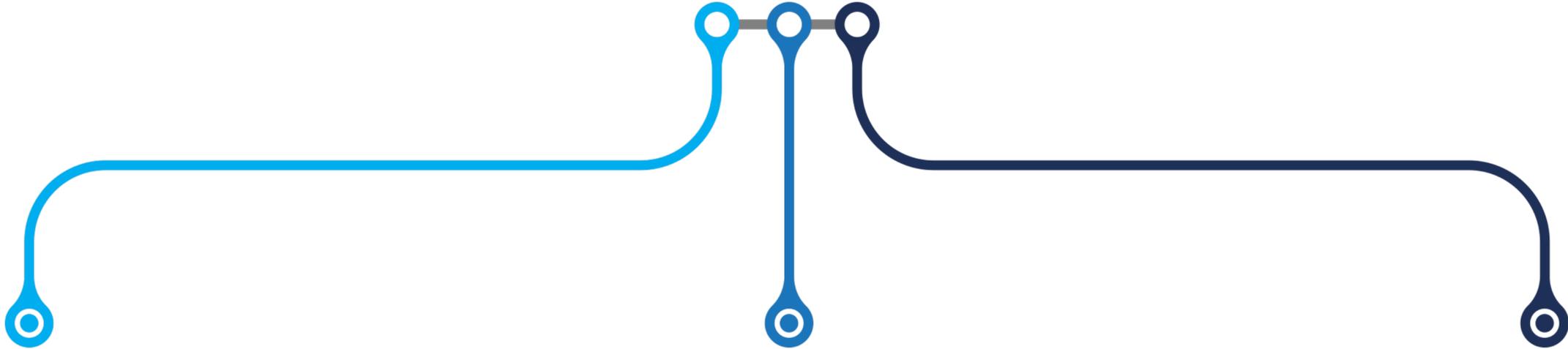
Height: 2.1" (54.5 mm)
Width: 2.1" (54.5 mm)
Depth: 0.7" (18 mm)

[* Full product spec sheet available upon request](#)

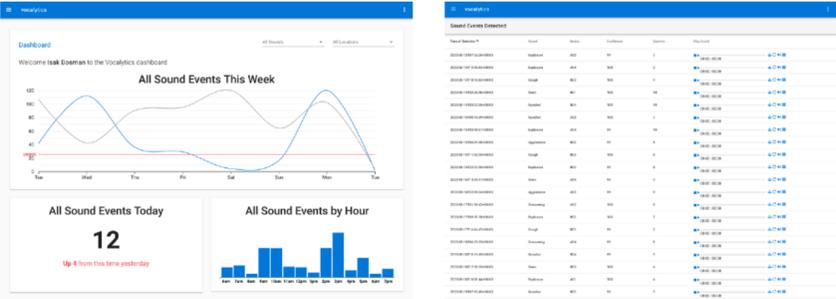
Vocalytics Acoustic Sensor features and specifications:

- 4 digital MEMS mic array
- Hardware & digital audio acoustic cleanup
- Plug and play + seamless wifi integration
- 128GB onboard storage (30 days of data if offline)
- Internal Battery (Single day reserve charge with loss of power)
- Flexible & robust library of health, safety & security sound profiles
- Real-time alerting with flexible intervention notifications
- Uptime pings and network connectivity reporting to Vocalytics
- Local, edge or cloud sound signal processing
- Additional energy & environmental sensors

Product Overview

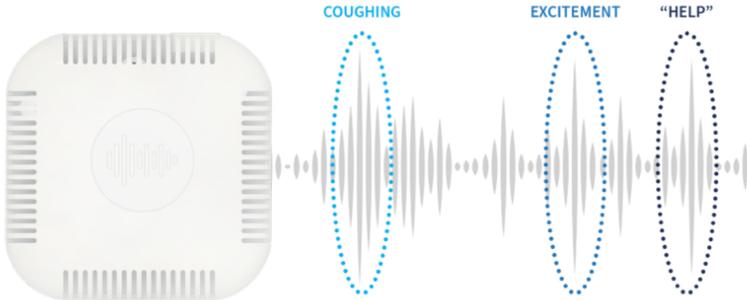


Powerful Software



Deep Acoustic AI Insights, Trends, and Custom Alerts

Proprietary Hardware



Our tiny, lightweight sensor cleans noise and adds intelligence.

Flexible APIs

```
utils
  POST /api/v1/utils/test-only/ Test Only
  POST /api/v1/utils/test-only/ Test Only
locations
  GET /api/v1/locations/ Read Locations
  POST /api/v1/locations/ Create Location
devices
  GET /api/v1/devices/ Read Devices
  POST /api/v1/devices/ Create Device
events
  GET /api/v1/events/ Read Events
  POST /api/v1/events/ Create Event
  GET /api/v1/events/range/ Read Events by Date Range
  GET /api/v1/events/sound/ Read Events by Sound
  GET /api/v1/events/range/sound/ Read Events by Date Range and Sound
sounds
  GET /api/v1/sounds/ Read Sounds
  POST /api/v1/sounds/ Create Sound
stats
  GET /api/v1/dashboard/stats/ Read Stats
```

Intelligent Ears for your **Intelligent Eyes**
Flexible APIs to enrich your existing infrastructure.

Business Model

ENTERPRISE SAAS

As an enterprise SaaS model, we charge our clients a **one-time deployment fee** with an **annual subscription** for platform access.



HEALTHCARE:

- Skilled Nursing
- Long Term Care
- Assisted Living



SMART BUILDINGS:

- Essential Workers
- Contact Centers
- Corporate Campus

Market Size

Serving essential healthcare workers first, Vocalytics is uniquely positioned to address **Health, Safety, and Security** across smart facilities, retail, defense and other sectors.



Essential Workers
Economic impact of illness, injury, or death



Remote Health Monitoring
Beyond patient communication, robust data to close gaps in care



Occupational Health & Safety
Health & Safety solutions to protect against workplace incidents

Why Today

Providing unbiased acoustic data in the physical world

COVID-19

- Our **ambient cough detection solution** is being used for a proactive response, as coughing is the number one way COVID is spread.
- People with **upper respiratory diseases** (like COPD, Asthma, and others) are highest risk, expense, and 1/4 of the population.
- **100,000+ deaths in senior living homes** (in the USA) and climbing. (1/3 of all COVID morbidities)
- **We provide an occupational health & safety solution.** Enterprises suffer from the inability to collaborate in-person safely.



AUDIO TECHNOLOGY

- **More microphones today than ever before.** 100M+ smart speakers, 2B+ CCTV embedded microphones, wearables, mobile devices, etc.
- **We've developed advanced acoustic cleanup technologies** acoustic beamforming, DSP, sound source localization, etc.
- **We produce lightweight, high performance solutions.** Low cost edge compute more available than ever to process on-device.
- **We are an AI/ML software intelligence company** Tensorflow NLP, NLU, GPT-3, BERT, and other models & infrastructure widely available.

Trusted by the best

PARTNERS



AWARDS



SXSW - Enterprise & Smart Data
Finalist



Voice Launch Disruptor Award
Winner



Backed by Techstars



Small Business Innovation
Research Award (US Air Force)



Privacy & Security

We've brought AI businesses to market in the age of privacy, and understand trust.

CCPA, GDPR, and HIPAA compliant, we're built with data governance front of mind.
We keep your data and your customers' data safe.



EDGE COMPUTE

Edge processing on the device intelligence



ANONYMIZATION TECHNIQUES

Anonymizes all data & Encrypts End-to-End



PERSONAL INFORMATION REDACTION

Redaction of all PII, PHI, PMI



Let's start the conversation.

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