In a nutshell
According to the WHO, ambient air pollution is responsible for 7 million premature deaths annually. One of the biggest challenges governments face is identifying the sources, makeup, and potential health effects of the aerosol pollution emissions. Without this information, research labs and environmental agencies can't make the right decisions needed to improve air quality and protect global health.

Current methods of analysis generally only measure a very specific component of the aerosol pollution. These instruments are expensive, require skilled labor to operate, and the analysis of the data can only be done by expert researchers. AeroSpec’s technology measures multiple components of aerosol air pollution in a single device.

Why is our technology important?
The end goal to create a planet free of harmful air pollution and improve the health of all living things.

With the exact chemical composition of the pollution, including its source and potential health effects, we can provide comprehensive and actionable information to allow data-driven policy making.

The benefits of our solution
Our automated Aerosol InfraRed Monitor (AIR - Monitor) invention can identify and measure the aerosol pollution as well as analyze its chemical composition and source signatures. All this work is done automatically, reducing the cost and speed of analysis.

We expect to provide near-real time data on pollution composition and sources for 20 locations by 2025. We aim to have specific health relation to pollution sources being established by 2028.

By 2030, we expect to have saved millions of lives around the world.

Keywords
Air pollution, Constituents, Particulate matter, Global health, Aerosol monitoring, Real-time data, Aerosol pollution, Infrared, Aerosol sources

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Get in touch
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