



## GasFinder Monitors Greenhouse Gas Emissions BOREAL LASER

**Boreal Laser** has developed and provided laser-based gas detection systems since 1989. Their most popular product, GasFinder2.0 is a self-contained, automated gas detection system used for safety, and environmental monitoring. In the current era of heightened awareness of greenhouse gas emissions, and pollution monitoring, cost-effective, automated tools like the GasFinder2.0 are critical.

**GasFinder2.0** is an open-path gas detector that uses an integrated transmitter/receiver unit and retro-reflector. Laser light is emitted from the transceiver through the air to the reflector and back. GasFinder works by measuring absorption of near infra-red laser light using single line spectroscopy and is essentially interference-free. In the multi-path configuration, **GasFinder2.0** uses a precise computer-controlled pan-tilt to provide fast automated scanning for real-time concentration profile monitoring and measurements of actual fluxes.

The Boreal application development team faced a demanding set of requirements in defining the scanning system for the **GasFinder2.0** including low weight, durability, and the ability to operate in continuously harsh outdoor environments. Most importantly, it had to provide high precision to enable accurate measurement results. The **PTU-D300** fit these requirements well. The speed and precision of the **PTU-D300** provided fast accurate scanning required.

“We needed a rugged, precision pan-tilt for our flagship GasFinder product and found the **PTU-D300** to be a great off-the-shelf solution. Our development was simplified by the robust real-time control that the PTU-D300 has built-in. The system has been fielded for over 2 years now and we have been pleased with the performance of the product and the service we have received from Directed Perception.”

-- Jim Bauer, Project Manager, **BOREAL LASER**



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**About BOREAL LASER:** Boreal Laser develops, manufactures, sells and supports the GasFinder line of laser based gas detectors. Boreal Laser holds four US patents protecting various aspects of the GasFinder technology. Boreal has been delivering GasFinders to clients worldwide for almost ten years, and in so doing has pioneered several new applications of laser gas detection. Boreal's strong customer focus has been critical in enabling laser gas detection to be accepted as the new standard in these applications.

Customer Success Story