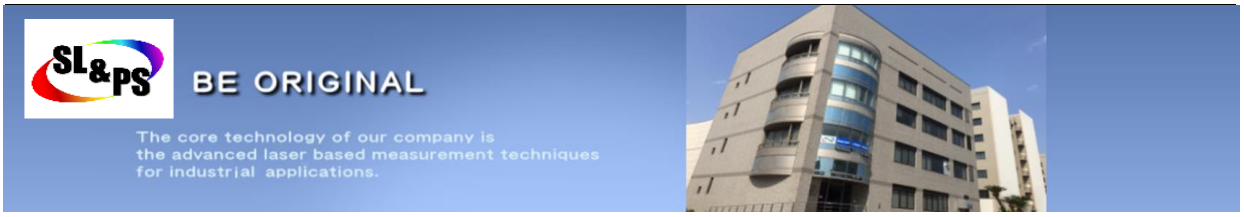
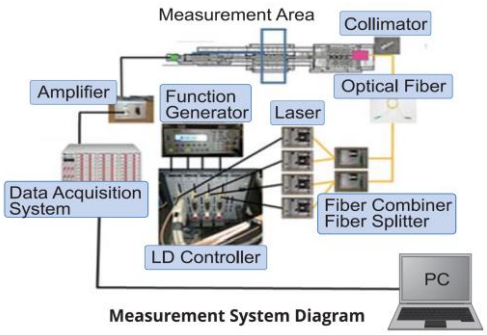


CT-TDLAS-I

2D Time series Temperature and Concentration distributions measurement system

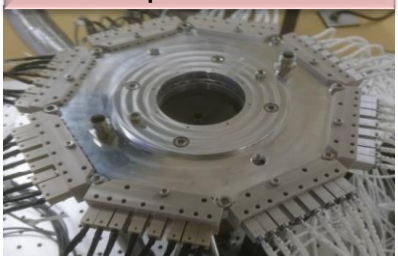
CT-TDLAS-I is a revolutionary measurement system which can detect time-series 2D temperature and concentration distributions in combustion, reaction and flow fields. It utilizes the CT-TDLAS(Computed Tomography-Tunable Diode Laser Absorption Spectroscopy) technology developed by Tokushima University and it can be applied to engines(in-cylinder and exhausts), burners, boilers, gas turbines for time-series 2D temperature and concentration measurement. Multi-path laser beams are introduced to the measurement area and 2D temperature and concentration distributions are reconstructed by CT using multi-path absorption spectra.

Target: Engines, Burners, Boilers, Gas turbines, etc.
Temperature (300-2000K), Concentration (CH_4, NH_3, CO_2, H_2O, and so on)



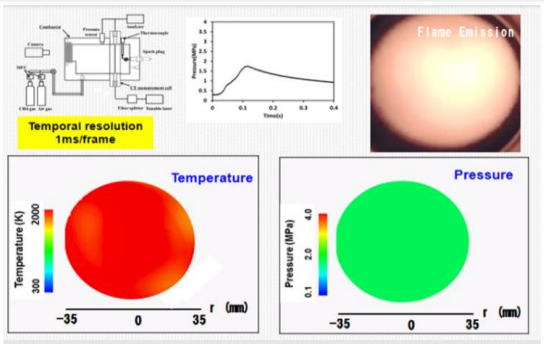
Measurement System Diagram

32-path CT-Cell



Applications

High Temperature and Pressure Combustion



More applications : Visit the following URL
http://www.tokushima-u.ac.jp/ccr/event/ct-tdlas-en.html

Products

- ☑ 2D and 3D CT-TDLAS system
- ☑ 2D and 3D CT-Cell
- ☑ Amplifier, Collimator, Detector
- ☑ Acquisition system
- ☑ Custom Design System

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