Frequently Asked Questions (FAQ)

◈ General Questions

1. What types of laboratory equipment do you manufacture?
We design and produce specialized laboratory equipment for aerodynamics testing, spray patternation, spray visualization, and air mass flow measurement. Our systems range from standard rigs to fully customized solutions.

2. Which industries use your aerodynamic and spray measurement systems?
Our equipment is used in automotive, aerospace, energy, and academic research, as well as in fuel injection and combustion technology development.

3. Can your equipment be customized for specific research needs?
Yes, most of our systems can be tailored to specific experimental requirements, including size, measurement range, and sensor integration.

4. Do you provide both standard products and tailor-made solutions?
We offer a portfolio of proven standard systems, but also develop customized rigs for unique applications.

◈ Technical & Application

5. What measurement techniques are used for spray patternation and visualization?
We employ a variety of techniques, including laser sheet imaging depending on the required resolution and application.

6. How accurate are your air mass flow measurement systems?
Our systems typically achieve accuracy within ±2–4% of reading, depending on calibration and measurement conditions.

7. Can your spray visualization equipment handle high-pressure or high-temperature conditions?
Yes, we provide equipment capable of operating under extreme conditions such as high-pressure injection and elevated temperatures, often required for fuel spray studies.

8. Do your systems support alternative fuels (e.g., hydrogen, e-fuels, biofuels)?
Yes, our equipment is compatible with a wide range of conventional and alternative fuels, including hydrogen, synthetic fuels, and biofuels.

9. What optical methods are available for aerodynamic and spray testing (e.g., Mie, PIV, Shadowgraphy)?
We offer systems that integrate multiple optical diagnostics such as Mie imaging to capture flow and spray dynamics.

◈ Installation & Operation

10. What are the typical lab requirements (space, utilities, safety measures) for installing your equipment?
Requirements vary by system, but most setups need stable table space, compressed air supply, electrical power, and appropriate safety measures for high-pressure or flammable fuels.

11. How long does it take to set up and commission a new system?
Depending on complexity, installation and commissioning usually take from a few days for standard systems up to several weeks for large custom rigs.

12. Do you offer on-site installation and training for operators?
Yes, our engineers provide on-site installation, system calibration, and operator training to ensure smooth operation.

13. What software is included with your measurement systems?
Each system comes with dedicated software for data acquisition, control, and analysis. Integration with third-party platforms (e.g., MATLAB, LabVIEW) is also possible.

14. Are your systems compatible with third-party sensors and data acquisition units?
Yes, most systems can be interfaced with external sensors and DAQ systems for extended measurement capability.

◈ Service & Support

15. What kind of maintenance is required for your equipment?
Regular calibration, cleaning of optical components, and inspection of fluid/air lines are recommended. Detailed maintenance guidelines are provided with each system.

16. Do you offer remote technical support or only on-site service?
We provide both remote troubleshooting and on-site service, depending on customer needs and system complexity.

17. How long is the warranty period for your systems?
Our standard warranty is 12 months from installation, with options to extend coverage.

18. Do you provide spare parts and consumables?
Yes, we supply all necessary spare parts and consumables, including optical components, seals, and flow sensors.

19. How often should calibration be performed, and can you provide calibration services?
Calibration intervals depend on system usage, but typically once per year. We offer calibration services both at our facilities and on-site.

◈ Commercial & Ordering

20. How can I request a quotation for your equipment?
Simply contact our sales team with your application details, and we will prepare a tailored quotation.

21. What information do I need to provide when requesting a price offer?
Please provide details such as application type, measurement range, operating conditions (e.g., pressure, temperature, fuel type), and any specific customization requirements.

22. What is the typical lead time for manufacturing and delivery?
Lead times vary by system, typically between 8–20 weeks depending on complexity and customization.

23. Do you ship worldwide, and what are the shipping options?
Yes, we deliver globally. Shipping options include air freight, sea freight, or express courier depending on equipment size and urgency.

24. Do you offer leasing or rental options for research projects?
Yes, for selected systems we offer short-term leasing or rental options, particularly for academic and research projects.