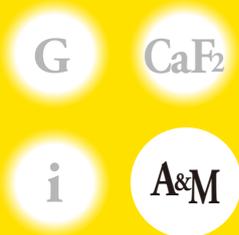


News Letter



Analysis & Measurement Services Enable Discovery of Previously Unseen Phenomena and Differences



• Services Provide Various Solutions for Analysis

When unexpected phenomena or defects are found during research and development of a product, comprehending exactly what happened is the first step in solving the problem. Therefore, analysis and measurement that are best suited for the purpose are essential. However, not a few researchers in the field have such comments as “We don’t know what to analyze and how to analyze it,” “We don’t have the know-how for high-precision analysis and measurement,” and “We don’t have the necessary measuring equipment and we can’t afford such expensive equipment.”

Nikon has conducted a wide variety of analyses and measurements, and accumulated an abundance of know-how through developing and manufacturing cameras and semiconductor lithography systems over many years. Also, because we have utilized the results of analysis in the development of our own products and receive continuous feedback, “analysis associated with problem-solving” is one of our major specialties. What Nikon offers based on this are our “Analysis and Measurement Services.”

Nikon owns a large variety of measuring equipment and provides highly precise measurement by making best use of its equipment capacity, including the methods and environment for analysis and measurement.

Furthermore, we provide customers using our Analysis and Measurement Services with solutions to such questions as “What kind of analysis is required” or “How do we interpret analysis results” that can be utilized in clarifying causes and improving performance.

Previously invisible phenomena and differences can be seen with optimum methods and high-precision analysis. Nikon’s “Analysis and Measurement Services” can contribute greatly to corporate research and development as well as research at universities and laboratories.

◆Example: Nikon’s Analysis and Measurement Services◆

Nikon’s Analysis and Measurement Services

General Analysis and Measurement Services

Share customer’s problem



Backlight leakage from the edge causes brightness irregularity

Suggest Analysis and Measurement

Assume the edge structure affects birefringence of monitor components and suggest birefringence measurement

Analysis and Measurement

Measure birefringence of monitor components

Solutions

Determined that brightness irregularity occurs due to major birefringence in components & irregularity of birefringence distribution

Decrease birefringence of the components or employ materials with low birefringence

Nikon’s strengths

- ◆ Abundant know-how in optical measurement (Measuring methods to identify the cause and reliability of measurement results)
- ◆ Capable of measuring various materials and shapes with a broad range of applications
- ◆ Possession of various types of state-of-the-art measuring equipment and high-precision measurement capability

Working together on customer’s problems contributes to improvement in quality and review of development guidelines.