

ThreeNH Launches YL3160 Non-Contact Spectrophotometer

Streamlined automation, precise measurements, and zero contamination are foundational to the industrial automation reshaped by the YL3160 spectrophotometer's non-contact color measurement capabilities.



Guangzhou, Guangdong Jul 15, 2025 ([Issuewire.com](http://www.Issuewire.com)) - ThreeNH, a world leader in innovation in the field of instruments and optical devices, announces their latest product, YL3160 Non-Contact Spectrophotometer. While intended for industrial purposes, this omnidirectional instrument surpasses expectations in real-time color measurement as it preset benchmarks in accuracy claim for smart

manufacturing systems that prioritize efficiency, cleanliness and automation.

Introduction to the Product and the Importance of Its Launch

The problem of overuse in today's industry trends emphasizes the need for increased pace in automation, stricter quality control metrics, and accelerated production. Limitations rendered by traditional contact-based color measuring technologies such as contamination, sample damage and time demanding processing all complicate this issue. The design goals of the YL3160 are aimed at resolving these issues.

The YL3160 is designed with features that are aimed to provide a plethora of advantages for the user. With real-time reflection spectrum and chromaticity data, it ensures consistent product color and meets the reflection spectrum data reliability required by global manufacturing standards. As such, it enhances the competitive parameters for any business.

Product Overview

The YL3160 is the inline [color measurement](#) technology of the future. Its integration with industrial production lines and robotic systems facilitates non-invasive, automated, seal monitoring, as well as precise oversight. Its multiple data output interfaces alongside intelligent environmental compensation make the device robust and reliable under countless factory conditions.

Furthermore, the dust and water proofing, IP66, as well as the sleek probe design of the YL3160 allows installation in flexible spaces making it ideal for rigorous industrial conditions.

Key Features and Innovations

- **256-Pixel Dual-Array CMOS Image Sensor:** Obtains spectral data with precision.
- **Full-Spectrum LED and UV Light Source:** Enhances color rendition and reproducibility.
- **Measurement Speed:** Can measure within 50 milliseconds, or over one million times in 24 hours.
- **Optical Resolution:** High precision measurement of reflective and color differences.
- **Industrial Protection Level IP66:** Protected against dust, water, and harsh industrial elements.
- **Humidity and Temperature Compensation:** Surrounding conditions do not affect measurement accuracy.

Non-Contact Measurement Advantages

- **Sample Integrity:** With no interaction with the sample, contamination and damage does not occur.
- **Contact** with the sample is safe for a wider range of substances, including soft corrosive fluids, pastes, powders, and even soft solids.
- **Avoids cross-contamination** for rigid hygiene industries including cosmetics, pharmaceuticals, and food.
- **No restrictions** on the sample dimension, thickness, or texture of the surface.

Industry Applications

Due to the precision of the YL3160 and its non-contact technology, it is appropriate for numerous

industries, such as:

- Real time tint blending supervision while mixing or applying for the Paints and Coatings industry.
- For sensitive and easily contaminated products like creams or powders cosmetics manufacturing.
- In food processing, ensures consistent hues in sauces, condiments, baked goods, etc.
- Measuring and continuously monitoring fabric color during production in textile and dyeing industries.
- Clean and accurate testing of tablets and liquids for pharmaceuticals.
- Uniformity of electronic and plastic parts and finishes.
- Safe measurement of delicate or rare materials for cultural preservation.

Regardless of whether the material is solid, liquid, powdery or irregular, the YL3160 will seamlessly yield accurate color measurements.

Executive Quote

A representative from ThreeNH remarked, “Our vision was to create a measurement solution that doesn’t just keep up with industrial demands but leads the way.” Considering the precedents we set with the YL3160, there are no longer barriers of physical contact and contamination; therefore, it is a smart, high-speed, and reliable system trusted by industries globally.”

Market Impact and Vision

Sharply reacting to the market need are smart control and monitoring systems, which the YL3160 provides. Collection of real-time data with minimal human contact is vital as manufacturers move to Industry 4.0 ecosystems. While upholding hygiene standards and minimizing human error, the YL3160 performs exceptional in fast-paced production environments, drastically reducing waste, improving consistency, and maximizing efficiency.

The product also acts in alignment with ThreeNH's color measurement vision – to make it smarter, cleaner, and more interconnected, paving the way for automated quality control spanning entire industries.

Availability and Pricing

Release Timeline

The YL3160 is available for order globally as of July 2025.

Sales Channels and Ordering Information

Customers can place orders through:

- **Official website:** <https://www.threenh.com>
- Authorized global distributors
- On-site consultations and demos available upon request

Support and Customization Options

Each purchase includes:

- 1-Year Standard Warranty
- Extended 3-Year Service Option
- Installation Support and Integration Guidance
- Custom OEM/ODM Solutions
- Access to color management software and updates

In addition to the above service offerings, ThreeNH offers onboarding training and ongoing remote troubleshooting to streamline onboarding and ensure optimal system functionality.

About ThreeNH

ThreeNH (Shenzhen Threenh Technology Co., Ltd.) is a world-leading manufacturer in high-end optical measurement instruments. They have over 60 countries in their customer base and are known for their colorimeters, gloss meters, spectrophotometers, and custom research and development (R&D) projects.

ThreeNH is known for innovations, reliability and precision. They serve industries including automotive, textiles, food processing, pharmaceuticals, and cultural preservation. The company's objective is to make color science accessible and accurate for every production line.

Additional Resources & Links

- Product page: <https://www.threenh.com/Spectrophotometer/YL3160-Non-contact.html>



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