

## SR-033~048 Series: Sunri Technology's Precision Measurement Solutions for Display Manufacturing

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### Revolutionizing FPD Production Line Quality Control

In the fast-paced world of flat panel display (FPD) manufacturing, Sunri Technology's SR-033~048 series stands as a game-changing suite of optical measurement instruments. Designed with semiconductor-level precision, these devices are reshaping quality assurance protocols in modern panel factories.

### Core Product Breakdown

SR-033 SIG-400: The heavyweight champion in angular distribution analysis, boasting  $\pm 0.5^\circ$  measurement accuracy for backlight uniformity evaluation

SR-036 CS-160: A chromaticity meter that's become the industry's secret weapon against color shift defects, with 0.001 CIE xy resolution

PR-680 Spectrophotometer: Dual-beam architecture enables simultaneous measurement of emissive and reflective displays

### Technical Innovations Driving Industry 4.0

Sunri's engineers have embedded machine learning algorithms directly into the SR-035's imaging colorimeter. This allows real-time defect classification during high-speed inline inspections - imagine a system that learns to distinguish between mura patterns and particle contamination with 99.7% accuracy.

### Case Study: Solving the OLED Burn-in Paradox

When a major OLED manufacturer faced unexplained luminance degradation in premium smartphones, Sunri's CL-70F illuminance meter revealed a startling discovery: microscopic current leakage during dark state operation. The solution? Implementing dynamic compensation waveforms adjusted through real-time SR-048 data feedback.

### Future-Proofing Measurement Technology

As MicroLED adoption accelerates, Sunri's roadmap includes:

- Quantum dot integration for wide color gamut validation

- Hyperspectral imaging modules (patent pending)

- AI-powered predictive maintenance algorithms

The T-10 series' recent upgrade demonstrates this evolution - its new 150dB dynamic range sensor can now capture both moonlight-dim and sunlight-bright displays in a single measurement cycle. It's like teaching a camera to see through a welder's mask and night vision goggles simultaneously!

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### **When Precision Meets Practicality**

While the SR series boasts lab-grade specs, field technicians appreciate the surprise durability - the CS-150 survived a 1.5m drop during a factory tour last quarter, emerging with calibration intact. As one engineer joked: "These instruments are built like Soviet-era satellites, but with Swiss watch internals."

Web: <https://www.sphoryzont.edu.pl>