

Why Wide Angle Lens Buyers Choose CHANCCTV for Differentiated Optical R&D and Custom Service



Fuzhou, Fujian Aug 13, 2026 ([Issuewire.com](https://www.issuewire.com)) - Wide-angle lens projects require a rigorous balance across optical coverage, distortion control, edge clarity, and structural space constraints. For B2B procurement teams, finding a reliable [China Wide Angle Lens Supplier](#) capable of bridging the gap between initial design and volume manufacturing is a primary hurdle. Buyers are securing a highly integrated component that dictates visual performance. This demands a partner equipped to deliver multiple sensor formats, mount variations, and adaptable custom options without sacrificing optical fidelity.

Fuzhou ChuangAn Optics Co., Ltd. (CHANCCTV) addresses these engineering challenges by connecting concrete product specifications to visible manufacturing capabilities. The company's product range spans **1/4-inch to 1/1.55-inch** sensor formats, supported by a historical R&D record including truck rearview systems, 180° wide-angle optics, and UAV non-distortion lenses. Differentiated R&D is measured strictly by a supplier's product span, named development milestones, sampling paths, and manufacturing visibility. By uniting these elements, CHANCCTV ensures procurement inquiries translate

directly into verifiable optical specifications.

Portfolio Breadth Supports Differentiated Wide Angle Projects

The foundation of a differentiated optical solution lies in the physical breadth of a supplier's wide-angle lens portfolio. When project constraints dictate specific focal lengths or tight mechanical housing limits, a comprehensive starting platform accelerates the sourcing timeline. CHANCCTV's diverse product groups cover an extensive spectrum of formats to accommodate highly variable mechanical demands.

Selected series within this portfolio offer high-resolution configurations supporting **up to 50 MP** sensors and delivering a maximum horizontal field of view (HFOV) of approximately **139°**. These specifications serve demanding sectors like action cameras, unmanned aerial vehicles (UAVs), security networks, automotive vision, and embedded machine vision. This extensive combination of sensors, mounts, and focal lengths allows engineering teams to screen existing platforms before transitioning into targeted customization.

Key specification parameters available for project screening include:

- **Sensor Format Compatibility:** Broad coverage from **1/4-inch to 1/1.55-inch** formats to match diverse imaging sensors.
- **Mount Variations:** Availability of **M7, M8, M10, and M12** mounts to suit different board-level camera housings.
- **Resolution and Field of View:** Selected groups supporting **up to 50 MP** resolution and maximum **139° HFOV**.

Optical R&D Is Measured Through Development Milestones

For procurement professionals evaluating a supplier, the verifiable value of optical R&D is demonstrated by a proven ability to solve specific field of view, total track length (TTL), resolution, and distortion targets. Since its establishment in 2010, Fuzhou ChuangAn Optics Co., Ltd. has maintained a continuous, documented track record of optical engineering achievements that prove its capacity to meet stringent industry standards.

The company's development milestones provide concrete evidence of this capability. Notable successes include the 2012 deployment of a truck rearview super-wide-angle lens designed to eliminate blind spots in commercial vehicles. This was followed by a 2013 milestone achieving a 180° lens configured with an exceptionally compact 12 mm TTL. In 2016, the engineering team delivered a 4K non-distortion lens featuring a 51° diagonal field of view (DFOV) specifically engineered for UAV applications. These milestones span the automotive, wide angle, and UAV sectors, illustrating an adaptive capability to adjust optical architectures based on strict constraints.

Wide Angle Performance Requires Trade-Off Management

The fundamental reality of wide angle lens deployment is that a wider field of view is not inherently better. Successful integration requires a highly engineered balance among coverage, distortion, edge resolution, compositional integrity, and installation stability. As the field of view increases, the potential for edge distortion and chromatic aberration naturally rises. Procurement teams must carefully account for how shooting angles, subject distances, and physical stability will alter the final image output.

In industrial inspection or complex security monitoring applications, these optical variables become

exponentially more challenging. Projects must integrate additional operational considerations such as sensor matching, environmental housing constraints, and algorithmic distortion correction limits. CHANCCTV supports extensive modification and customization on its finished lenses. This adaptive approach allows existing product platforms to converge precisely around exact project boundaries, ensuring that trade-offs between expansive coverage and minimal distortion are managed effectively.

Custom Service Connects Specifications To Samples

The defining deliverables of a reliable custom service program are testable physical samples and frozen technical specifications. To initiate a successful custom development cycle, project inputs must be comprehensive. Buyers should define exact parameters, including sensor format, resolution, mount type, target HFOV, focal length, maximum TTL, IR filters, operating environments, and anticipated quantities. Utilizing these detailed inputs, engineering support teams can accurately determine the physical boundaries between deploying a standard model, executing a targeted modification, or initiating a completely new optical design.

To facilitate rapid device prototyping and image effect comparisons, CHANCCTV provides a highly accessible sampling policy that lowers early-stage risk.

This procurement-friendly testing pathway includes:

- **Accessible Prototyping:** Acceptance of **one-piece sample** requests to support initial R&D phases.
- **Flexible Scaling: No MOQ** (minimum order quantity) constraints for early testing and small-batch validation.
- **Rapid Delivery:** A stock sample lead time of approximately three days, ensuring engineering timelines remain on schedule.

This transparent path from specification input to physical sample delivery forms a complete custom service chain that minimizes development risks.

Manufacturing Visibility and Buyer Confidence

Procuring wide-angle lenses requires evaluating far more than just initial product parameters; it necessitates a thorough assessment of a supplier's processing capabilities, inspection rigor, and communication reliability. The public visibility of Fuzhou ChuangAn Optics Co., Ltd.'s Inspection Workshop and Processing Plant provides necessary visual evidence of its actual production environment. This operational transparency is critical for buyers who must verify strict quality controls across entire production runs.

Furthermore, predictable communication is a cornerstone of global buyer confidence. The facility's commitment to a 24-hour inquiry response time establishes a clear service rhythm for specification adjustments and pre-sales engineering support. By combining expansive product platforms, a documented development history, an agile sample policy, and visible production environments, [CHANCCTV](#) establishes a rigorous selection process. This approach ensures that supplier differentiation is rooted firmly in verifiable manufacturing facts.

Through its accumulation of optical product development expertise since 2010, its expansive wide-angle series, application data, transparent sample policies, and dedicated custom support, CHANCCTV provides a complete procurement foundation. Guided by the brand promise to develop sharper lenses,

create ideal solutions, and provide customized services to realize innovation, the manufacturer stands ready to support complex commercial imaging. To initiate a custom consultation or inquire about standard wide-angle models, buyers can submit their sensor, mount, focal length, HFOV, working distance, filter, environmental, and volume requirements directly through <https://www.opticslens.com/>.



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