

## Tamron's Proprietary Cutting-Edge Technologies of Optics

Compact, lightweight, highly precise and highly functional. Expending great efforts to bring optical technological innovation, Tamron has released many valuable optical products over the years. Tamron will continue to focus on the future. We are committed as an optical specialist to create new value and direction in optics with our long accumulated optical technologies not just optical design but also mechanical designs as well as production technologies.



### Opto-Science R&D Social problem-solving with optical technology

Solving current and future social issues with optical technology. Tamron set itself the goal to conduct research and development through wide-ranging collaborations in the medical, agriculture, mobility and security industries.



### Lens Processing Technology Quality backed by experience and achievements.

Innovations in polishing, grinding, and pressing processes have enabled Tamron to offer highly precise lens processing technology allowing for new applications and complex shapes.



### Optical Design & Engineering R&D Optical wavelength and limitless possibilities

Solving social issues by continuing to develop core technologies such as design, simulation, manufacturing, and evaluation of lens products. Researching optical development technologies for a wide range of light applications from visible to far infrared ray, from consumer to industrial use.

## Looking towards the future with advanced optical technologies



### Actuator Technology Lens movement control

Actuator technology is responsible for fast and highly accurate lens movements such as zoom, focus, iris and VC (Vibration Compensation). Tamron independently develops its own optical design, control circuit and software to ensure the fastest and most accurate actuators possible.



### Coating and Filter Technology Delivering maximum lens performance

Optical coating technology has been effectively designed in order to improve optical performance and lens function which delivers superior wavelength control, lower-reflection, and higher surface protection depending upon usage and light source.



### Resin Forming/Molding Technology Create new usages with manufacturing technology

High-precision molding and forming technologies are able to produce value-added products unlike machining operation and glass materials. Resin molded parts are used for not only plastic lens but also for the housing. Resin forming/molding technology contributes to a new application and improvements for lens products.

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