

**Tamron announces the world's smallest and lightest¹
telephoto zoom lens for Sony E-mount full-frame mirrorless cameras**

70-300mm F/4.5-6.3 Di III RXD (Model A047)

September 25, 2020, Saitama, Japan – Tamron Co., Ltd. (President & CEO: Shiro Ajisaka), a leading manufacturer of optics for diverse applications, announces the launch of the 70-300mm F/4.5-6.3 Di III RXD (Model A047), a telephoto zoom lens for Sony E-mount full-frame mirrorless cameras on October 29, 2020. Due to the current global health crisis, the release date or product supply schedule could change.

While Tamron has manufactured many popular telephoto zoom lenses that extend to 300mm for DSLR cameras, the newly released 70-300mm F4.5-6.3 is the first model designed for full-frame mirrorless cameras. Developed with the concept of bringing the joy of easy telephoto shooting to photographers everywhere, it's the world's smallest and lightest^{*1} 70-300mm zoom lens at 148mm (5.8 in) and 545g (19.2 oz), and delivers exceptional image quality.

Its Moisture-Resistant Construction provides greater protection when shooting outdoors and the lens shares the 67mm filter diameter common to all members of Tamron's lens series for full-frame mirrorless cameras. The lens also takes full advantage of in-camera features, including Sony's Fast Hybrid AF and Eye AF that support a fantastic shooting experience. The 70-300mm F4.5-6.3 is a highly practical lens that makes the excitement of telephoto shooting easier than ever before across a diverse range of shooting styles including landscapes, sports and other athletic events, wildlife, portraits, and more.



Model A047

¹ Among 300mm-capable telephoto zoom lenses for full-frame mirrorless cameras (As of August, 2020: Tamron)

PRODUCT NAME	DATE OF LAUNCH
70-300mm F/4.5-6.3 Di III RXD (Model A047)	October 29, 2020 *Due to the spread of COVID-19, the release date or the product supply schedule could be delayed.

PRODUCT HIGHLIGHTS

1. A telephoto zoom so compact you want to carry around everyday

Tamron has adopted a dedicated design for mirrorless cameras and achieved a compact size once again by fixing the aperture at F6.3 at the telephoto end. The maximum diameter is 77mm. Measuring just 148mm (5.8 in) and weighing a mere 545g (19.2 oz), this 70-300mm F4.5-6.3 is the world's smallest and lightest telephoto zoom lens for full-frame mirrorless cameras. Compatible with Sony's popular E-mount cameras, it has been developed with the concept of enabling photographers to more easily experience the universe of full-scale, full-frame 300mm telephoto photography.

In addition, the AF drive system incorporates the exceptionally quiet RXD (Rapid eXtra-silent stepping Drive) stepping motor. Because this lens is compatible with Sony camera features, including in body image stabilization and Eye AF, you can enjoy comfortable, high-speed, high precision telephoto photography, even handheld.

Experience the excitement of bringing distant subjects closer as well as the perspective flattering characteristics achieved by full-scale telephoto photography more easily than ever before. For landscapes, sports, birds and wildlife as well as closer subjects such as portraits and street scenes, this lens expands the range of telephoto photography.

2. Superior optical performance and supreme lightweight portability

Pursuing lightweight design as a top priority, Tamron has created a compact 70-300mm F4.5-6.3 zoom lens that makes 300mm telephoto shooting easy and fun. The superb optical design is based on a rigorous simulation process using state-of-the-art design technologies. As a result, Tamron has successfully struck a balance between extreme lightness (545g / 19.2 oz) and compactness, incorporating a slim lens barrel with a maximum diameter of 77mm without sacrificing high image quality. The optical design includes 15 elements in 10 groups, with an LD (Low Dispersion) lens element precisely arranged to suppress axial chromatic and other

aberrations that are likely to happen with telephoto zoom lenses. At 300mm, a commonly used telephoto zoom focal length, the design delivers excellent resolution from edge-to-edge. Overall, the efficient optical construction (which also contributes to its light weight) plus Tamron's BBAR (Broad-Band Anti-Reflection) Coating with its well-established reputation for anti-reflection properties, combine to enable the photographer to capture extremely clear, crisp images across the entire zoom range. While the lens features an advanced design with excellent core image quality, optical performance can be enhanced even further by employing the lens correction features found on Sony cameras.

With the introduction of this lens, all photographers, from first-time users of full-scale telephoto zoom lenses to experienced enthusiasts seeking a compact, lightweight telephoto zoom, can comfortably enjoy the advantages of a powerful, versatile zoom without worry about size or weight. Photographers who are shooting with in-camera image stabilization or using a tripod, can reduce the burden of their gear. Moreover, the 70-300mm F4.5-6.3 maintains good balance even when used with the APS-C sized E-mount cameras that are smaller than full-frame cameras (e.g., Sony α 6500); consequently, users can also enjoy photography with an even greater equivalent telephoto zoom appearance of approximately 450mm.²

3. The RXD stepping motor unit is exceptionally quiet

The AF drive incorporates a sensor that accurately detects the position of the lens while the RXD motor unit delivers optimized AF control. This achieves very fast and accurate autofocus operation and allows users to maintain tack-sharp focus on continuously moving subjects shot at the telephoto zoom position. Thanks to the exceedingly quiet AF, the lens can be used discreetly in concert halls and other situations that require low noise levels, and for video recording.

4. A full family of superb, compact lenses made especially for mirrorless cameras

The 70-300mm F4.5-6.3 shares the same uniform 67mm filter diameter as other members of Tamron's series of full-frame mirrorless camera lenses. When using an assortment of these lenses, users can interchange filters (e.g., PL, ND, etc.) and lens caps, thereby increasing convenience and minimizing costs as it is unnecessary to purchase a collection of different size filters.

Tamron's lineup of lenses with 67mm filter diameter for full-frame mirrorless cameras (in the order they were launched):

² For APS-C mirrorless format: 105-450mm equivalent field-of-view

- 28-75mm F/2.8 Di III RXD (Model A036) / High-speed standard zoom lens
- 17-28mm F/2.8 Di III RXD (Model A046) / High-speed ultra wide-angle zoom lens
- 24mm F/2.8 Di III OSD M1:2 (Model F051) / Fixed focal lens
- 35mm F/2.8 Di III OSD M1:2 (Model F053) / Fixed focal lens
- 20mm F/2.8 Di III OSD M1:2 (Model F050)/ Fixed focal lens
- 70-180mm F/2.8 Di III VXD (Model A056) / High-speed telephoto zoom lens
- 28-200mm F/2.8-5.6 Di III RXD (Model A071)/ All-in-one zoom lens

5. Moisture-Resistant Construction for added protection

Seals are located at the lens mount area and other critical locations to deter infiltration of moisture and/or rain drops and afford Moisture-Resistant Construction. This feature provides an additional layer of protection when shooting outdoors under adverse weather conditions.

6. Compatible with camera-specific features and functions

Tamron's new 70-300mm F4.5-6.3 is compatible with many of the advanced features that are specific to certain mirrorless cameras. These include the following:

- Fast Hybrid AF
- Eye AF
- Direct Manual Focus (DMF)
- In-camera lens correction (shading, chromatic aberration, distortion)
- Camera-based lens unit firmware updates

* Features vary by camera. Please consult your camera's owner's manual for details. (As of August, 2020)

SPECIFICATIONS

Model	: A047
Focal Length	: 70-300mm
Maximum Aperture	: F4.5-6.3
Angle of View (diagonal)	: 34°21'-8°15' (for full-frame mirrorless format)
Optical Construction	: 15 elements in 10 groups
Minimum Object Distance	: 0.8m /31.5 in (WIDE), 1.5m /59.1 in (TELE)
Maximum Magnification Ratio	: 1:9.4 (WIDE) / 1:5.1 (TELE)
Filter Size	: φ67mm
Maximum Diameter	: φ77mm
Length*	: 148mm (5.8 in)
Weight	: 545g (19.2 oz)
Aperture Blades	: 7 (circular diaphragm)**
Minimum Aperture	: F22-32
Standard Accessories	: Round-shaped hood, Lens caps
Compatible Mounts	: Sony E-mount

* Length is the distance from the front tip of the lens to the lens mount face.

** The circular diaphragm stays almost perfectly circular up to two stops down from maximum aperture.

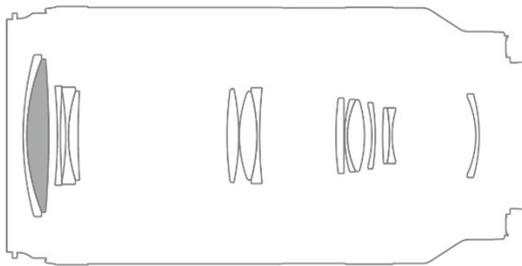
Specifications, appearance, functionality, etc. are subject to change without prior notice.

This product is developed, manufactured and sold based on the specifications of E-mount which was disclosed by Sony Corporation under the license agreement with Sony Corporation.

Lens Exterior

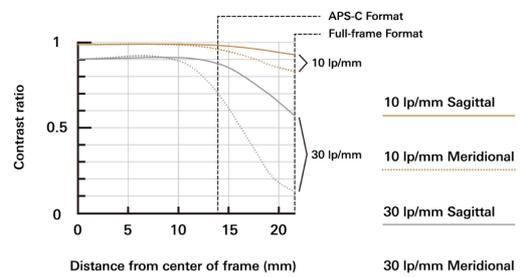


MTF/ Optical Construction

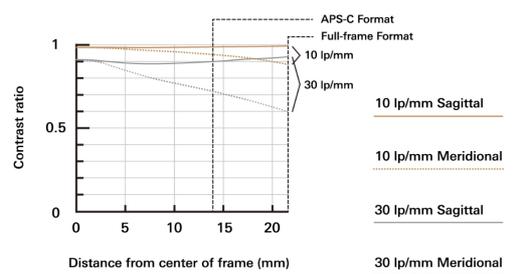


LD (Low Dispersion) lens element

Focal Length:70mm Exposure: F4.5



Focal Length:300mm Exposure: F6.3



About Tamron Co., Ltd.

“New Eyes for Industry” is Tamron’s philosophy. This creed is consistent with the company’s position as a manufacturer of a wide range of original optical products, from interchangeable lenses for digital cameras to various optical devices for both the general consumer and OEM. Tamron makes optical products that contribute to a range of different industries and will continue to devote its rich creativity and leading-edge technical prowess to various industrial fields. Furthermore, Tamron is fully aware of its responsibility to the environment and aspires to help preserve the natural environment in all its business activities.

Tamron will mark the 70th anniversary of its foundation on November 1, 2020.

Please visit our 70th Anniversary Special Page for more information;

<https://www.tamron.com/70th/>

Optical Product Line-up:

Interchangeable lenses for 35mm / Digital SLR camera, Interchangeable lenses for Non-Reflex type camera, Camcorder lenses, Digital still camera lenses, Drone lenses, Optical device units, Surveillance camera lenses, FA and Machine vision lenses, Automotive camera lenses, Camera module, Test plates, etc.