

Canon EF Lens to Sony E Mount T Speed Booster ULTRA 0.71x



Key Features

Speed Booster ULTRA for E-Mount and X-mount cameras

Sharper corners, less distortion, reduced vignetting

New optical design: advanced 5-element/4-group optical design incorporating ultra-high index tantalum-based optical glass to achieve extraordinary optical performance with improved corner sharpness, distortion and reduced vignetting.

Like the revolutionary original Metabones Speed Booster announced in January 2013, the Speed Booster ULTRA has a magnification of 0.71x, and so it effectively reduces the crop factor of mirrorless cameras with DX-sized sensors, such as Sony E-mount and Fuji X-mount cameras, from 1.5x to 1.07x. However, the new ULTRA design makes very effective use of exotic materials at the furthest limit of glassmaking technology, and as a result is well corrected for use with virtually all full-frame SLR lenses regardless of exit pupil distance. Thus, the Speed Booster ULTRA performs extremely well with professional-grade f/2.8 zoom lenses such as the 24-70mm f/2.8 and 70-200mm f/2.8 zooms by Canon and Nikon to produce 17-50mm f/2.0 and 50-142mm f/2.0 high-speed zooms, respectively. Similarly, high-speed fixed focal length lenses such as a 50mm f/1.2 will be transformed into a 35.5mm f/0.9 lens with excellent contrast and resolution from the center all the way to the edges of the image. (More information can be found in the press release [here](#))

Features and benefits

Metabones Exclusive

- Advanced 5-element/4-group optical design incorporating ultra-high index tantalum-based optical glass by Caldwell Photographic in the USA (patent pending).
- If both your lens supports optical image stabilization (OIS) and your camera supports sensor-shift, in-body image stabilization (IBIS), the choice is yours on which one to use, or have both of them work in harmony.
- Smooth iris support with the latest Canon (2009+),

Limitations

Optical/mechanical

- Full-frame lens required. EF-S/DX/DC/Di II lenses are NOT supported.
- Speed Booster ULTRA is designed to cover an APS-C image circle which is not big enough to cover a full-size 36mm x 24mm sensor. On a full frame camera body (A7 series, NEX-VG900) the camera needs to have "APS-C/Super 35mm" set to either "Auto" or "On".

Autofocus

- AF-C is supported on A9, A7RII, A7II, A6500 and A6300 only, and only in [Green mode](#).
- Continuous video AF is functional in [Advanced mode](#), but performance may be unsatisfactory.
- On Sony A9, only phase-detection autofocus is supported. Contrast-detection autofocus does not work. See firmware release notes for details.

Tamron (SP series 2013+) and Sigma (2016+) lenses.

- Custom function button (called Focus Hold button) assignable to more than 50 functions, such as Aperture Preview and Eye-AF, on A9, A7 series, A6500 and A6300.
- Cinema EOS lens (CN-E) support, including power zoom, AF and auto iris.
- Detachable tripod foot, compatible with Arca Swiss, Markins and Photo Clam ball heads.

Optical/Mechanical

- Increase maximum aperture by 1 stop.
- Increase MTF.
- Makes lens 0.71x wider.
- Felt material flocked inside to reduce internal reflection.

Electronic

- AF-C tracking during high speed drive at up to 10fps on Sony A9. (NOT applicable to A7R Mark III or A7 Mark III, refer to footnote number [x] of Sony's A7 Mark III press release for limitations.)
- Fast contrast-detection AF on all E-mount cameras (except AF-S/DMF with Sony A9).
- Pure phase-detection autofocus support on A9, A7RII, A7II, A6500 and A6300 (the fastest).
- Supports 5-axis in-body image stabilization of A7II, A7RII and A7SII. (Distance information from lens required; 3-axis IBIS if lens does not transmit distance information.)
- Powered by camera body. No external power source required.
- Efficient switched-mode power supply.
- Supports image stabilization (IS) lenses.
- Supports electronic manual focusing (e.g. EF 85/1.2L II and discontinued EF 50/1.0L)
- EXIF support (focal length, aperture, lens name)
- Distance and zoom display on VG and FS series camcorders, A9, A7 series, A6500 and A6300 (lens with distance information support required).
- Auto magnify (lens with distance information support required)
- Auto "APS-C Size Capture" on full-frame cameras.

- AF may not work if the maximum aperture of the lens plus any EF Extender or other teleconverter attached is smaller than f/8 before boost or smaller than f/5.6 after boost.
- The first two autofocus attempts are used to calibrate the lens and as a result may not lock successfully on the target. Half-press the shutter release button again and autofocus will lock successfully.
- Autofocus may have difficulty locking onto subjects which are very close to the nearest focusing distance of the lens.
- Autofocus accuracy depends heavily on the design and working condition of the lens. Lenses with hidden problems which may not be apparent on Canon DSLRs will lead to inaccurate and unreliable autofocus on Sony. Typical problems of this kind that we have seen include an unsmooth/erratic autofocus mechanism (e.g. getting stuck intermittently at a certain focusing distance), a faulty/worn-out distance encoder or other faulty/worn-out internal sensors.

Other

- No support for lens corrections such as peripheral shading, CA and distortion.
- Use of Canon Cinema lenses such as CN-E 18-80mm T4.4 for still photography is not supported. (Functional, but slower than lenses designed for still photography.)
- Some EF-mount lenses may make audible noises during iris changes and autofocus, which may be picked up by the built-in microphone of the camera during video recording. Use of an external microphone is advised. Some of the recently-introduced Canon-brand lenses are very quiet, however.
- Ранние линзы Tamron VC, такие как AF 28-300/3.5-6.3 XR Di VC LD Асферический макрос [IF] (модель A20), AF 18-270/3.5-6.3 Di II VC LD Асферический [IF] МАКРОС (модель B003), SP AF 17-50mm F/2.8 XR Di II VC LDAspherical [IF] (модель B005) может не иметь возможности свободно переключаться между OIS и IBIS, поскольку они могут не сообщать о состоянии активности IS. Более поздние объективы Tamron VC, оснащенные двигателями фокусировки USD или PZD, подходят.

- Some aftermarket battery grips may cause the aperture to change erroneously. This is a bug of the aftermarket battery grip but NOT arising from the Metabones Speed Booster. Turn off the aftermarket battery grip or use a genuine Sony battery grip.

Disclaimer: we are NOT licensed, approved or endorsed by Sony or Canon.

Description

Tested Camera Bodies:

- A9, A7SII, A7RII, A7II, A7S, A7R, A7
- A6500, A6300, A6000, A5000
- PXW-FS7M2, PXW-FS5, PXW-FS7, NEX-FS700, NEX-FS100
- NEX-EA50, NEX-VG900, NEX-VG30, NEX-VG20, NEX-VG10
- NEX-7, NEX-6, NEX-5R, NEX-5N, NEX-5, NEX-C3, NEX-3

Lens compatibility chart

Fast AF on all E-mount cameras (phase detection AF only with Sony A9)	Tested by the community, thanks!
<p> Canon EF 8-15mm f/4L USM Fisheye* Canon EF 11-24mm f/4L USM Canon EF 16-35mm f/2.8L USM Canon EF 16-35mm f/4L IS USM Canon EF 20-35mm f/3.5-4.5 USM Canon EF 24mm f/1.4L USM Canon EF 24-105mm f/4L IS USM Canon EF 28-80mm f/3.5-5.6 II Canon EF 40mm f/2.8 STM* Canon EF 50mm f/1.2L USM Canon EF 50mm f/1.4 USM Canon EF 50mm f/1.8 STM* Canon EF 70-200mm f/2.8L IS II USM* Canon EF 70-200mm f/4L IS USM Canon EF 70-200mm f/4L USM Canon EF 70-300mm f/4-5.6L IS USM* Canon EF 85mm f/1.2L II USM Canon EF 100mm f/2.8L Macro IS USM* Canon EF 100-400mm f/4.5-5.6L IS USM Canon EF 100-400mm f/4.5-5.6L IS II USM* Canon EF 180mm f/3.5L Macro USM Canon EF 200mm f/2.8L II USM Canon EF 300mm f/4L IS USM Canon EF 400mm f/5.6L USM Canon EF Extender 1.4x III Canon EF Extender 2x II Sigma 24-105mm f/4 DG OS Art Sigma 50mm f/1.4 DG HSM Tamron SP 15-30mm f/2.8 VC USD A012* Tamron SP 24-70mm f/2.8 Di VC USD A007 Tamron SP 45mm f/1.8 Di VC USD F013* Tamron SP 70-200mm f/2.8 Di VC USD A009* Tamron 70-300mm f/4-5.6 Tamron SP 90mm f/2.8 Macro Tamron 150-600mm f/5-6.3 VC USD A011* </p>	<p> Canon EF 14mm f/2.8L II USM Canon EF 24-70mm f/4L IS USM Canon EF 28-300mm f/3.5-5.6L USM Canon EF 35mm f/1.4L II USM Canon EF 35mm f/2L IS USM Canon EF 35-350mm f/3.5-5.6L USM Canon EF 70-200mm f/2.8L IS USM (Mark I) Canon EF 70-200mm f/2.8L USM (non-IS) Canon EF 75-300mm f/4-5.6 IS USM Canon EF 85mm f/1.8 USM Canon EF 400mm f/2.8L IS USM (Mark I) Canon EF 400mm f/5.6L USM Canon EF 500mm f/4L IS USM (Mark I) Sigma 12-24mm f/4.5-5.6 (Ver I) Sigma 20mm f/1.4 DG HSM Art Sigma 24mm f/1.4 DG HSM Art Sigma 35mm f/1.4 DG HSM Art Sigma 50mm f/1.4 Art Sigma 50-500mm f/4-6.3 OS HSM Sigma 70-200mm F2.8 APO EX DG OS HSM Sigma 85mm f/1.4 EX DG HSM Sigma 150mm f/2.8 Macro Sigma 150-600mm f/5-6.3 OS HSM Contemporary </p> <p> Phase-detect AF on A9, A7RII, A7II, A6500 and A6300 only, unable to contrast-detect AF accurately if at all </p> <p> Canon EF 24-70mm f/2.8L II USM Canon EF 28-70mm f/3.5-4.5 II Canon EF 35mm f/1.4L USM Canon EF 50mm f/1.8 II Canon EF 100mm f/2.8 Macro USM Canon EF 135mm f/2L USM Contax N Vario Sonnar 17-35mm f/2.8 Contax N Planar 50mm f/1.4 Contax N Vario Sonnar 70-200mm f/3.5-4.5 Contax N Planar 85mm f/1.4 </p>

	Manual focus only
	Samyang 35/1.4 Zeiss CP.2 25mm/T2.9 Zeiss CP.2 100mm/T2.1 Zeiss ZE Distagon 15/2.8 Zeiss ZE Distagon 21/2.8 Zeiss ZE Distagon 35/2 Zeiss ZE Makro-Planar 50/2 Zeiss ZE Makro-Planar 100/2
	Not supported
	Focus confirmation "chip" (e.g. Dandelion) Tamron 28-300/3.5-6.3 XR Di VC LD Aspherical [IF] MACRO A20 (note 6)

1. Lenses marked with an asterisk support smooth iris.
2. Sony NEX cameras cannot display aperture values beyond f/1.0. If a f/1.2 Canon EF lens is used with Speed Booster ULTRA the resulting aperture is f/0.9 but the camera body displays the original aperture f/1.2 to the camera body. i.e, lenses slower than f/1.4 report boosted aperture to camera body; lenses at or faster than f/1.4 report original aperture to camera body. (with firmware later than V0.38)
3. Some improperly-made M42 screw mount adapters may short the electronic contacts of the Speed Booster ULTRA and cause damage to the Speed Booster ULTRA and/or camera body.
4. Many manual focus lenses (e.g. OM 28/2.8, OM 50/1.8, Leica R 15/3.5) have rear protrusions (spikes, levers, other appendages) which would damage the optics and/or housing of Speed Booster ULTRA They need to be modified before they can be safely used on Speed Booster Check and make sure there are no rear protrusions from the adapter/lens combination before using on Speed Booster. Scratches and damages caused by rear protrusions on Speed Booster are not covered by warranty.
5. This Speed Booster ULTRA is NOT fully compatible with full-frame Sony A7 series. When Speed Booster® ULTRA is used with Sony A7 series, the camera will turn on the "APS-C Size Capture" mode automatically.
6. Unstable due to unusually high current requirement.

List of manual focus lenses which REQUIRE MODIFICATION to be used on Speed Booster ULTRA

Many manual focus lenses have rear protrusions (spikes, levers, other appendages) which would damage the optics and/or housing of Speed Booster ULTRA. They need to be modified before they can be safely used on Speed Booster ULTRA. Check and make sure there are no rear protrusions from the adapter/lens combination before using on Speed Booster ULTRA. Scratches and damages caused by rear protrusions or by poor quality adapters are not covered by warranty. The following is an incomplete list of lenses known to be incompatible.

Contax/Yashica	Leica R	Nikon F	Olympus OM	Pentax K
Distagon 3,5/15mm	Super-Elmar-R 15mm Elmarit R 28/2.8 Elmarit R 35/2.8 Summicron R 50/2	20/2.8 AI-S	OM 18/3.5 OM 21/2 OM 21/3.5 OM 28/2.8 OM 50/1.8	Every Pentax K-mount lens has a protruding fin and an aperture lever. It does NOT fit.

EF-E Product Matrix

	EF-E CINE Smart Adapter	EF-E CINE Speed Booster ULTRA	EF-E Smart Adapter V	EF-E Speed Booster ULTRA II
ULTRA optics by Caldwell Photographic	No	Yes	No	Yes
EF-S/DX lens compatible	Yes	No	Yes	No
Positive lock EF mount	Yes	Yes	No	No
LED indicator	Yes	Yes	Yes	Yes
Dedicated IBIS switch	Yes	Yes	Yes	Yes
Sony FS7 Mark II compatible	Yes	Yes	Yes	Yes
Sony teleconverter compatible	Yes	No	Yes	No
Canon EF Extender compatible	Yes	Yes	Yes	Yes

Note: your PayPal receipt is your order confirmation. There is no separate email confirmation until shipment takes place.