

# Fringer EF/FX smart adapters (Gen. 2)

## firmware release notes

### **Applies to:**

FR-FX2 (Fringer EF-FX Pro II)

FR-FX20 (Fringer EF-FX II)

**2020/3/20**

### **Version 1.60**

1. Added following lenses to the tested and optimized lens list:
  - 1) TAMRON SP 28-75/2.8 XR Di LD
  - 2) TAMRON SP 70-200/2.8 Di VC USD
  - 3) SIGMA 85/1.4 EX DG HSM
  - 4) SIGMA 50-150/2.8 EX DC HSM
2. Fixed compatibility issues with X-T200 camera. Be noted, since X-T200 is equipped with a non X-Trans CMOS, its AF performance is poorer when using EF mount lenses. Please use MF mode if necessary.

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**2020/2/14**

### **Version 1.50**

1. Bug fixed: Focal length was always 300mm when using EF300/2.8L II with 1.4X and 2X TCs. Now it's 420mm for 1.4X and 600mm for 2X.
2. AF performance of following lens has been improved further.
  - 1) EF24-105/4L IS II
3. Introduced smooth video AF for the following lens.
  - 1) EF24-105/4L IS II
4. Added following lenses to the tested and optimized lens list:
  - 1) EF28-135/3.5-5.6 IS USM
  - 2) EF50/1.0L
  - 3) TAMRON SP 24-70/2.8 VC A007
5. Bug fixed: Some of TAMRON17-50/2.8 VC B005 were wrongly recognized as SIGMA 17-50/2.8 and cause AF malfunctions.

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**2019/12/1**

### **Version 1.40**

1. Fixed PDAF issues for some lens of the following models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) SIGMA 20/1.4 ART
2. Bug fixed: Under some circumstances in video mode, the video recorded may suddenly become brighter or darker at 0.25 seconds from the beginning.

3. Fixed compatibility issues with X-A7 camera. Be noted, since X-A7 is equipped with a none X-Trans CMOS, its AF performance is poorer when using EF mount lenses. Please use MF mode if necessary.
4. Introduced smooth video AF for the following lenses.
  - 1) EF24-70/2.8L II
  - 2) EF35/1.4L II
  - 3) EF85/1.4L IS
  - 4) TAMRON SP 35/1.4 Di USD F045
5. Added following lenses to the tested and optimized lens list:
  - 1) EF300/2.8L IS II
  - 2) EF300/2.8L IS II + 1.4X
  - 3) EF300/2.8L IS II + 2X
  - 4) TAMRON SP 35/1.4 Di USD F045

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**2019/9/2**

**Version 1.30**

1. BUG fixed: A very rare case that small number of products may cause camera to blackout and reboot aperiodically. This bug has been fixed by the new firmware.
2. Fixed PDAF issues for some lens of the following models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) TOKINA AT-X 14-20/2 Pro DX
  - 2) TAMRON 10-24/3.5-4.5 Di II VC (B023)
  - 3) TAMRON 16-300/3.5-6.3 VC PZD
3. Added following lenses to the tested and optimized lens list:
  - 1) EF400/4 DO IS USM
  - 2) EF400/4 DO IS USM + 1.4X

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**2019/8/4**

**Version 1.20**

1. **BUG fixed:** When doing contrast AF under circumstances like low light, some new lens models, e.g. SIGMA50-100/1.8, may be error prone and result in low successful rate.
2. Fixed PDAF issues for some of the following lens models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) SIGMA 120-300/2.8 Sports
3. AF performance of following lenses have been improved further.
  - 1) Sigma 18-200/3.5-6.3 OS Contemporary
  - 2) EF85/1.8 USM
  - 3) EF70-200/2.8L USM
  - 4) EF70-200/2.8L IS USM
4. Added following lenses to the tested and optimized lens list:

- 1) EF28/1.8 USM
- 2) EF35/2
- 3) EFS60/2.8 Macro USM
- 4) EF70-200/2.8L USM + 1.4X
- 5) EF70-200/2.8L USM + 2X
- 6) EF70-200/2.8L IS USM + 1.4X
- 7) EF70-200/2.8L IS USM + 2X
- 8) TAMRON16-300/3.5-6.3 VC PZD
- 9) TAMRON SP 35-150/2.8-4 Di VC OSD A043
- 10) YONGNUO50/1.4 (PDAF performance may not be stable due to poor aperture motor of the lens. Try setting shutter speed manually and use MF mode if necessary.)

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**2019/5/23**

**Version 1.10**

1. Fixed PDAF issues for some of the following lens models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) TAMRON 18-400/3.5-6.3 Di II VC HLD
  - 2) TAMRON SP 17-50/2.8 XR Di-II VC LD (B005)
2. AF performance of following lenses have been improved further.
  - 1) EF70-200/4L
3. Introduced smooth video AF for the following lenses.
  - 1) EF70-200/4L IS II
  - 2) SIGMA 28/1.4 Art
  - 3) SIGMA 40/1.4 Art
4. Added following lenses to the tested and optimized lens list:
  - 1) EF24-105/3.5-5.6 IS STM
  - 2) EF70-200/4L IS II
  - 3) EF100/2.8 Macro USM
  - 4) TOKINA 14-20/2.0
  - 5) SIGMA 20/1.4 Art
  - 6) SIGMA 28/1.4 Art
  - 7) SIGMA 40/1.4 Art

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**2019/4/21**

**Version 1.00**

1. Fixed PDAF issues for the following lens models: Lens didn't get recognized by the adapter after upgrading lens firmware.
  - 1) SIGMA30/1.4 Art
  - 2) SIGMA24-35/2.0 Art
2. Further optimized following lenses to improve their AF performance

- 1) SIGMA135/1.8 Art
- 2) EF-S18-135/3.5-5.6 IS USM
3. Added smooth video AF support for the following lenses.
  - 1) SIGMA135/1.8 Art
  - 2) EF-S18-135/3.5-5.6 IS USM

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**Be noted there are two versions.**

**EFX2\_100P.BIN** for Pro version: **Electronic aperture ring set aperture**

**EFX2\_100S.BIN** for Standard version: **Camera command dial set aperture**

**You need a PC or MAC and a USB Micro B cable to upgrade the adapter.**

1. Connect the adapter to your computer.
2. Find a new driver named “FRINGER” and copy new firmware to it.
3. Wait for 20 seconds. The adapter will disconnect itself from the computer and reconnect. If it doesn’t reconnect automatically, you may disconnect the USB cable and reconnect it manually.
4. Check installed firmware version (VERSION.TXT on the adapter)

**For example:**

**Before upgrade:**

FBL: EFX2 V2.4  
Fringer adapter product: EF-FX Pro II  
Version: 0.30  
Internal Version: 19.3.24.1

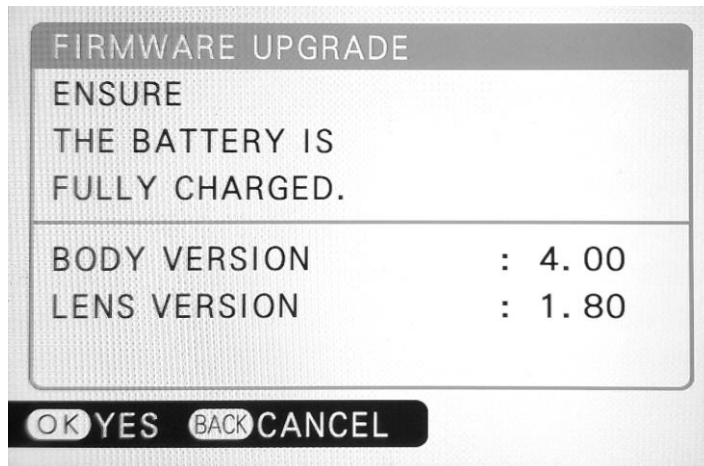
**After upgrade:**

FBL: EFX2 V2.4  
Fringer adapter product: EF-FX Pro II  
Version: 1.00  
Internal Version: 19.4.21.1

**Troubleshooting:**

Some of the cables in the market are for charging only and not suitable for data transfer. Thus, if you can’t find the “FRINGER” drive when adapter is connected to the computer, **check your cable!**

You may also read the adapter’s firmware version by Fujifilm’s method, i.e. press and hold DISP button before power on the camera. The “Lens version” on the screen is actually the adapter’s firmware version.



**Be noted: The Gen 2 firmware was developed base on Gen 1. However, these two versions are not compatible. If you copy the wrong version to your adapter, it will not install.**

-----Following are history versions of Gen 1-----

**2019/3/24**

**Version 2.80**

1. Fixed: Some of EF400/5.6L lenses can't be recognized by the adapter and lose PDAF capability.
2. Re-optimized following lenses to improve their PDAF accuracy
  - 1) EF40/2.8STM
  - 2) EF17-40/4L
  - 3) EF50/1.2L
  - 4) EF85/1.2L II
3. Introduced smooth video AF for the following lenses. More lenses may be added to this list in the future.
  - 1) EF50/1.8STM
  - 2) EF40/2.8STM
  - 3) EFS24/2.8STM
  - 4) EF70-200/2.8L IS II
  - 5) SIGMA50-100/1.8 Art
  - 6) SIGMA70-200/2.8 OS Sports
  - 7) SIGMA24-105/4 OS Art
  - 8) SIGMA24-70/2.8 OS Art
  - 9) TAMRON SP 15-30/2.8 VC
4. Added following lenses to the tested and optimized lens list:
  - 1) TAMRON SP 15-30/2.8 VC
  - 2) SIGMA60-600/4.5-6.3 OS Sports
  - 3) SIGMA70-200/2.8 OS Sports
  - 4) SIGMA70-200/2.8 OS Sports + 1.4X

5) SIGMA70-200/2.8 OS Sports + 2X

6) SIGMA24-105/4 OS Art

7) SIGMA24-70/2.8 OS Art

**Be noted:** It's known that firmware v1.02 for Sigma24-70/2.8 Art has compatible issues. If you encounter AF problems when using this lens, please upgrade it to latest firmware, i.e. v2.03 at current time.

[Click here to understand how to upgrade.](#)

**Be noted: Before upgrading to V2.80, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2019/1/27**

#### **Version 2.70**

1. Fixed PDAF issues for some of the following lens models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) Sigma 17-70/2.8-4 DC Macro OS HSM Contemporary
  - 2) Tamron SP 35/1.8 Di VC USD
  - 3) Tamron SP 45/1.8 Di VC USD
  - 4) Tamron SP 85/1.8 Di VC USD
2. Fixed MO (Manual Override) support for some Sigma and Tamron lenses. When you turn focus ring and activate MO, the camera will be switched to manual focus mode. After you half press and release the shutter button, it will be switched back to AF mode automatically. Be noted, this works only when IS mode is set to "always on" and the lens' MO function is switched on.
3. Bug fixed: When the Pro version adapter works with variable aperture zoom lenses and some of the X cameras such as X-T3, the camera may become lag and not responsive after playback a photo and switch back to shooting mode.
4. Added following lenses to the tested and optimized lens list:
  - 1) Tamron SP 70-210/4 Di VC USD (A034)
  - 2) Tamron SP 17-50/2.8 XR Di-II VC LD (B005)
  - 3) Samyang AF 85/1.4 EF
  - 4) Canon EFS 18-200/3.5-5.6 IS
  - 5) Canon EF 500/4L IS II
  - 6) Canon EF 500/4L IS II + 1.4X

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**Be noted: Before upgrading to V2.70, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2018/11/29**

#### **Version 2.60**

1. Fixed PDAF issues for some of the following lens models: Lens didn't get recognized by the adapter after upgrading lens firmware to version 2.0.
  - 1) Sigma 150-600/5-6.3 DG OS HSM Sports/Contemporary
2. Bug fixed: Some telephoto lenses, e.g. EF200/2.8L II, don't work properly

with 2X TC. When setting shutter speed to 'A', LCD or viewfinder is always too dark or too bright, so that it's hard to see the object being shot.

3. Added following lenses to the tested and optimized lens list:
  - 1) Sigma 105/1.4 DG HSM Art
  - 2) Sigma 120-300/2.8 DG OS HSM Sports
  - 3) Sigma 120-300/2.8 DG OS HSM Sports + 1.4X
  - 4) Sigma 120-300/2.8 DG OS HSM Sports + 2X
  - 5) Sigma 18-200/3.5-6.3 DC Macro OS HSM Contemporary
  - 6) Sigma 17-70/2.8-4 DC Macro OS HSM Contemporary
  - 7) EF 135/2L + 1.4X
  - 8) EF 135/2L + 2X

**Be noted: Before upgrading to V2.60, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2018/10/23**

**Version 2.50**

1. Fixed PDAF issues for some of the following lens models: Lens didn't get recognized by the adapter due to different lens firmware version.
  - 1) Tamron SP 35/1.8 Di VC USD
  - 2) Tamron SP 45/1.8 Di VC USD
  - 3) Tokina ATX 11-20/2.8 PRO DX
2. Function added for Lateral Chromatic Aberration (LaCA) correction. Some lenses' LaCA correction profiles have been integrated in the adapter. It will work with Fujifilm bodies to do LaCA correction in the camera just like a native X lens does.
3. Fixed compatibility issues with X-A3 camera. Be noted, since X-A3 is equipped with a non X-Trans CMOS, its AF performance is poorer when using EF mount lenses. Please use MF mode if necessary.
4. Fixed metering stop working issue for the Pro version adapter when using MF lenses without electric contacts.
5. Added following lenses to the tested and optimized lens list:
  - 1) EF600/4L IS II
  - 2) EF600/4L IS II + 1.4X
  - 3) EF200-400/4L IS
  - 4) EF200-400/4L IS + 1.4X

**Be noted: Before upgrading to V2.50, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2018/9/24**

**Version 2.40**

1. For X-T3 (and all coming cameras with X-Trans IV CMOS), we have optimized PDAF performance of all the lenses (on the tested and optimized lens list). Now you can leverage its full sensor coverage PDAF focus points and get improved AF performance.

2. Added following lenses to the tested and optimized lens list:

- 1) Tamron SP 70-200/2.8 Di VC USD G2
- 2) Sigma 70-200/2.8 EX DG HSM OS
- 3) Sigma 70-200/2.8 EX DG HSM OS + EF 1.4X II
- 4) Sigma 70-200/2.8 EX DG HSM OS + EF 2X II
- 5) Tokina ATX 11-16/2.8 PRO DX (I & II)
- 6) Tokina ATX 11-20/2.8 PRO DX

**Be noted: Before upgrading to V2.40, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2018/8/12**

**Version 2.30**

1. Bug fixed: For some zoom lenses, when working at certain focal length, AF may repeatedly fail to acquire focus point.
2. Bug fixed: Due to some minor differences of the mount protocol processing between the lens and the adapter, some lenses especially Tamron ones may cause the camera to work unstably or frequent black screen and restart.
3. Following lens has been further optimized to improve PDAF performance:
  - 1) EF-S 10-18/4.5-5.6 STM
4. Added following lenses to the tested and optimized lens list:
  - 1) Tamron SP 150-600/5-6.3 Di VC USD G2
  - 2) Tamron 100-400/4.5-6.3 Di VC USD
  - 3) Tamron SP 45/1.8 Di VC USD
  - 4) Tamron SP 85/1.8 Di VC USD
  - 5) Sigma 70/2.8 DG Macro Art
  - 6) EF 180/3.5L Macro
  - 7) EF-S 18-135/3.5-5.6 IS USM
  - 8) EF-S 18-55/3.5-5.6 IS STM

**Be noted: Before upgrading to V2.30, make sure current firmware version is V2.x. If it's V1.x, please upgrade to V2.10 first.**

**2018/7/28**

**Version 2.20**

1. IS function change. Begin with V2.20, IS function is controlled by the camera menu item "IS MODE".
  - 1) For lenses with IS (or OS/VC)  
When IS switch on the lens is on, IS function is controlled by camera menu. **Mode 1 (Continuous):** IS function is always on. **Mode 2 (Shooting only):** IS function is activated when shutter release button half-pressed and deactivated about 2 seconds after its release.

**Be noted,**

- a) Not all lenses can activate IS function reliably each time when shutter release button half-pressed under "Shooting only" mode. If that happen, please change to "Continuous" mode.



- b) When IS mode is set to “Continuous”, please turn on the IS switch on the lens only when necessary to save battery power. Turn it off before powering off the camera. Or the IS elements may not go back to the proper position.
  - c) If the camera supports IBIS, e.g. X-H1, IBIS function is disabled automatically to prevent from interference.
- 2) For lenses without IS function installed on a camera without IBIS. The IS menu on the camera gray out. No IS function is available.
- 3) For lenses without IS function installed on a camera with IBIS. Begin with V2.20, IBIS function of X-H1 works properly. It's controlled by the menu, i.e. Mode 1 (Continuous), Mode 2 (Shooting only) and OFF, which is similar to native XF lenses without built-in IS function. However, **IBIS performance with lenses longer than 100mm may be poor.**
- 2. Following lenses have been further optimized to improve PDAF performance and be compatible with the latest lens firmware
  - 1) Sigma 50/1.4 ART
  - 2) Sigma 85/1.4 ART
- 3. Fixed the issue that some of the following lenses are failed to be identified by the adapter (due to different lens firmware version) and have bad AF performance.
  - 1) Sigma 17-50/2.8 OS
  - 2) Sigma 50-100/1.8 ART
  - 3) Sigma 24/1.4 ART
  - 4) Sigma 135/1.8 ART
- 4. Added following lenses to the tested and optimized lens list:
  - 1) EF100/2L
  - 2) EF-S10-22/3.5-4.5
  - 3) Sigma105/2.8 EX OS HSM Macro

**Note: When installing V2.20 firmware, make sure current firmware version is 2.0 or 2.10. If it's 1.x, please install V2.10 firmware first.**

**2018/6/24**

**Version 2.10** (Bug fix version)

- 1. Bug fixed: Under some rare conditions, it may occur repeatedly that the LCD go black and the camera restart.
- 2. Bug fixed: Fail to identify some old lenses, such as Tamron 90/2.8 the oldest version, Canon 50/1.8 II, etc. The aperture value displayed may be incorrect.

**Note: v2.10 is a bug fix for v2.0. Thus, you don't need to install v2.0 before v2.10 on a v1.x adapter. Adapters with firmware v1.x must be upgraded to v2.0 or v2.10 before install any firmware newer than v2.10. Upgrading from v1.x to firmware newer than v2.10 directly is not supported.**

**2018/6/16**

**Version 2.0**

1. Re-optimized SIGMA100-400/5-6.3 OS Contemporary to improve its AF accuracy and make the adapter compatible with lens firmware 2.0 from Sigma. To fully utilize the image stabilizer function, customizing lens OS setting to Dynamic is recommended. You need a USB dock from Sigma to do that.
2. Re-optimized EF-S15-85/3.5-5.6 IS to improve its AF accuracy. The issue of failing focus under macro mode has been fixed.
3. Re-optimized TAMRON 10-24/3.5-4.5 Di II VC (B023) to improve its AF accuracy.
4. IS working modes changed for the following lenses to fix the unstable IS issue. Their IS function will always be activated as long as IS switch is on.
  - 1) EF-S15-85/3.5-5.6 IS
  - 2) EF70-200/2.8L IS
5. For X-Pro series cameras the following issue has been fixed: When using OVF, the coverage indication frame isn't corresponding to the current focal length.
6. Fixed compatibility issues with X-T100 camera. Be noted, since X-T100 is equipped with a none X-Trans CMOS, its AF performance is poorer when using EF mount lenses. Please use MF mode if necessary.
7. Added following lenses to the tested and optimized lens list:
  - 1) SIGMA17-50/2.8 OS
  - 2) EF200/2L IS
  - 3) EF200/2L IS + 1.4X
  - 4) EF200/2L IS + 2X
  - 5) TAMRON SP 200-500/5-6.3 Di LD

**Be noted: v2.0 is a new baseline version. Adapters with firmware v1.x must be upgraded to v2.0 before install any firmware newer than v2.0. Upgrading from v1.x to v2.1 or later directly is not supported.**

**2018/5/16**

#### **Version 1.80**

1. Re-optimized EF-S 24/2.8 STM to improve its PDAF accuracy
2. Added following lenses to the tested and optimized lens list:
  - 1) EF 300/4L IS
  - 2) EF 300/4L IS + 1.4X
  - 3) EF-S 17-85/4-5.6 IS
  - 4) TAMRON SP35/1.8 Di VC F012
3. Begin with v1.80, you may check adapter's firmware version through Fujifilm's method, i.e. press and hold "Disp" button and then power on the camera.
4. IS working modes changed for the following lenses to fix the unstable IS issue. Their IS function will always be activated as long as IS switch is on.
  - 1) EF 100-400/4-5.6L IS
  - 2) SIGMA 100-400/5-6.3 C

**2018/4/30**

**Version 1.70**

1. Fixed the issue of failing to identify some of SIGMA 35/1.4 Art lenses and activate PDAF for them.
2. Re-optimized SIGMA 35/1.4 Art to improve its PDAF accuracy
3. Added following lenses to the tested and optimized lens list:
  - 1) EF 200/2.8L II + 2X
  - 2) EF 500/4L IS
  - 3) EF 500/4L IS + 1.4X
  - 4) TAMRON 24-70/2.8 G2
4. Fixed compatibility issues with X-A5 camera. Be noted, since X-A5 is equipped with a none X-Trans CMOS, its AF performance is poorer when using EF mount lenses. Please use MF mode if necessary.

**2018/4/15**

**Version 1.60**

1. IS working modes changed for the following lens to fix the unstable IS issue. Its IS function will always be activated as long as IS switch is on.
  - 1) EF 70-300/4-5.6L IS
2. Re-optimized following lens to improve its PDAF accuracy
  - 1) EF 70-300/4-5.6L IS
3. Added following lenses to the tested and optimized lens list:
  - 1) EF-S 35/2.8 Macro IS STM
  - 2) EF 200/2.8L II
  - 3) EF 200/2.8L II + 1.4X
  - 4) EF 400/5.6L
  - 5) SIGMA 50/1.4 EX DG HSM

**2018/3/31**

**Version 1.50**

1. Bug fixed: For some lenses, there is a lag in the viewfinder when start to focus.
2. IS working modes changed for the following lenses to fix the unstable IS issue. Their IS function will always be activated as long as IS switch is on.
  - 1) EF 100/2.8L IS
  - 2) EF 70-200/4L IS
  - 3) EF 70-200/2.8L IS II
  - 4) SIGMA 150-600/5-6.3 OS Contemporary
3. Re-optimized following lenses to improve their PDAF accuracy and AF-C tracking performance:
  - 1) EF 100-400/4.5-5.6L IS II
  - 2) EF 70-200/2.8L IS II
4. Added following lenses to the tested and optimized lens list:
  - 1) SIGMA 24-35/2 Art

- 2) EF 70-200/2.8L IS II + 1.4X
- 3) EF 70-200/2.8L IS II + 2X
- 4) EF 70-200/4L IS + 1.4X

**2018/3/21**

**Version 1.40**

- 1. Lens IS control changed. V1.30 (and before): lens' IS function is always enabled as long as IS switch on the lens is on. V1.40: lens' IS function is enabled when shutter release button half pressed and disabled about 2 seconds after its release. That's the same logic as Canon cameras.
- 2. Re-optimized following lens to improve its PDAF accuracy.
  - 1) EF 70-200/4L IS
- 3. Added following lenses to the tested and optimized lens list:
  - 1) Sigma 150-600/5-6.3 OS Contemporary
  - 2) EF 70-300 IS II
  - 3) EF-S 18-135 STM
  - 4) EF 16-35/2.8L III
  - 5) EF 16-35/4L IS
  - 6) EF 24-70/4L IS

**2018/3/7**

**Version 1.30**

- 1. Bug fixed: some Sigma 18-35/1.8 art lenses can't be identified (max aperture displayed as F2.8 and PDAF doesn't work)
- 2. Re-optimized following lenses to improve their PDAF accuracy.
  - 1) EF 35/1.4L II
  - 2) EF 85/1.4L IS
  - 3) EF 100/2.8L IS
  - 4) EF 135/2L
  - 5) EF 16-35/2.8L II
  - 6) EF-S 55-250/4-5.6 IS STM
  - 7) Sigma 18-35/1.8 ART
  - 8) Sigma 50-100/1.8 ART
- 3. Added Tamron 18-400/3.5-6.3 Di II VC HLD (B028) to the tested and optimized lens list.

**2018/2/19**

**Version 1.20**

- 1. Bug fixed: After certain period of time, Pro version may stop saving last aperture setting when you turning off your camera and turning it on again.
- 2. Fixed wrong max aperture displayed issue for 70-200 and 100-400 when using 1.4x and 2x tele convertors.
- 3. Fixed image stabilizer not working anymore issue for some Sigma lenses when the OS switch is turned to off and then back to on.

4. Added Sigma100-400/5-6.3 OS Contemporary (C017) to the tested and optimized lens list.

**2018/2/3**

**Version 1.10**

1. Fixed IS not stable issue for some EF lenses.
2. Fixed some compatibility issues for Tamron lenses.
3. Added following lenses to the tested and optimized lens list:
  - 1) Canon EF 50/1.8 II
  - 2) Canon EF 70-200/2.8L IS
  - 3) Canon EF-S 17-55/2.8 IS
  - 4) Tamron SP10-24/3.5-4.5 Di II VC HLD B023