

Lens Distortion Correction Guide

For ProRes RAW and CinemaDNG Videos Shot on DJI Inspire 3

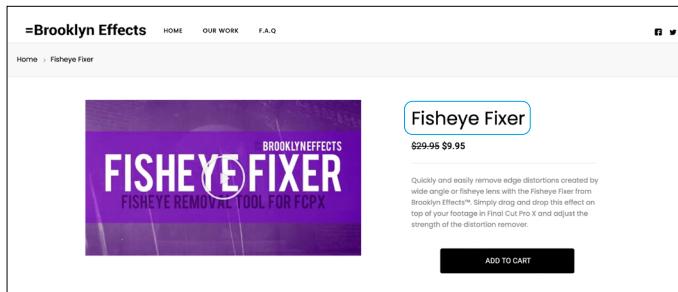
Introduction

The guide provides instructions on how to correct the lens distortion of ProRes RAW and CinemaDNG videos shot on DJI Inspire 3 with DJI DL lenses (such as DL 24 mm F28 LS ASPH lens) in Final Cut Pro, Davinci Resolve, and Adobe Premiere Pro.

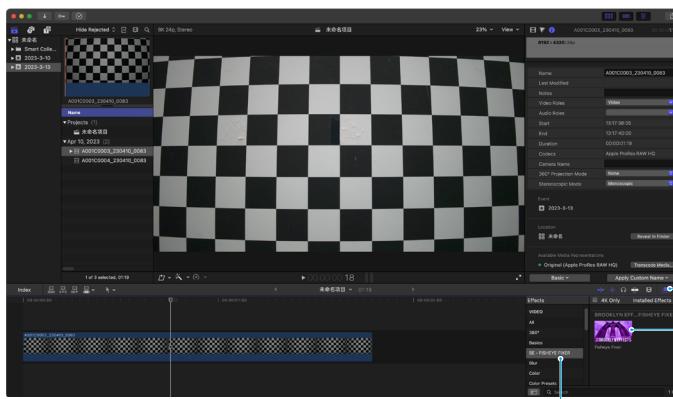
Final Cut Pro

For ProRes RAW videos.

1. Log in to <https://brooklyneffects.com/fisheye-fixer>, purchase and download the Fisheye Fixer plugin from Brooklyn Effects, and install it on your Mac computer.

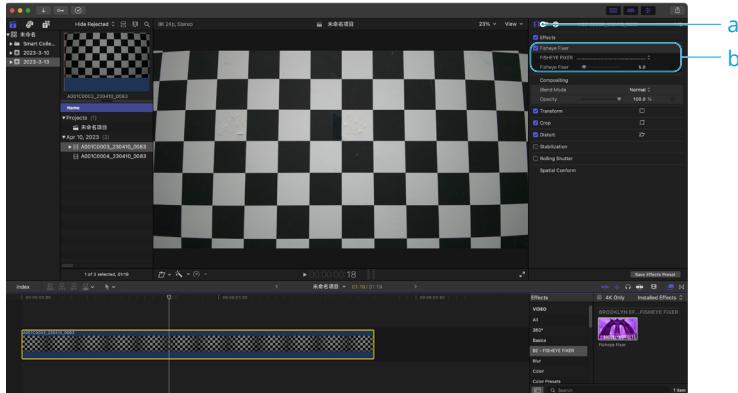


2. Open the effects browser, find BE-FISHEYE FIXER from the drop-down menu, and drag and drop Fisheye Fixer over the clips on the timeline.



3. Click the Inspector button and find Fisheye Fixer to adjust the distortion correction factor. Below is an example of the recommended correction factors for videos shot with a DL 24 mm F2.8 LS ASPH lens in different frames. Note that minor adjustments may also be needed as appropriate after applying the recommended correction factors.

Frame	Correction Factor
Full Frame	4.0 to 6.0
S35	2.0 to 4.0

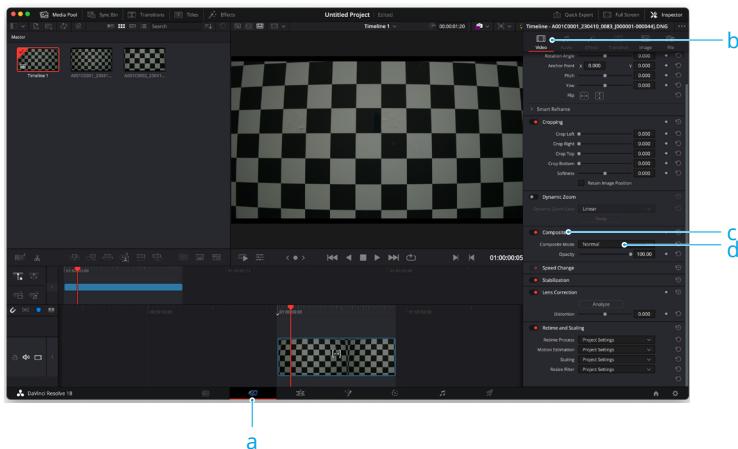


DaVinci Resolve

For CinemaDNG videos. Two methods are recommended:

Method 1

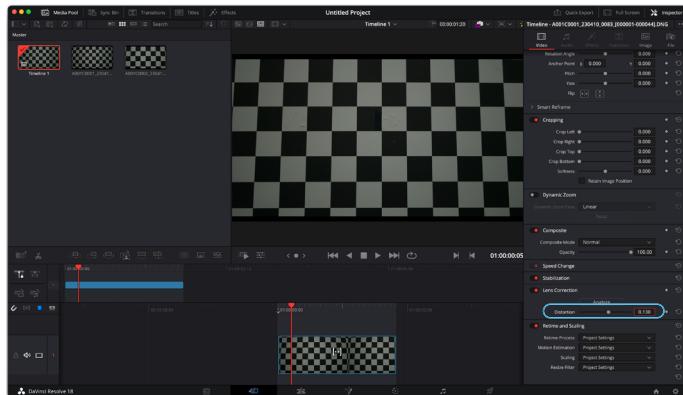
1. Open the quick editing window of DaVinci Resolve and click Video > Lens Correction > Analyze to start the lens distortion correction automatically.



- After the process is completed, the lens distortion is corrected by a certain degree.

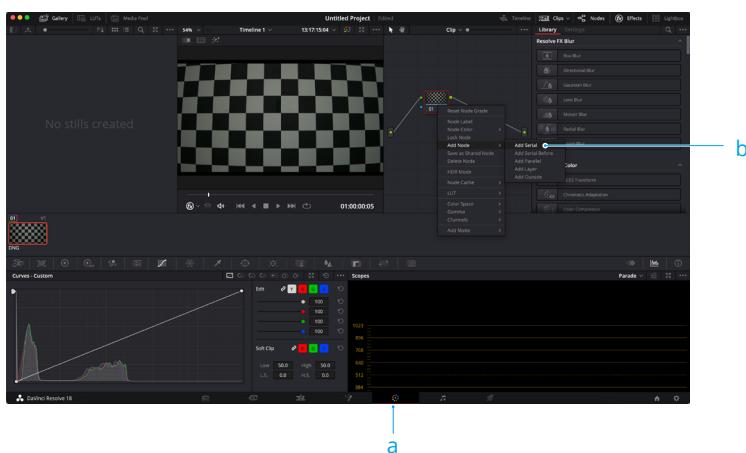
If the correction effect is weaker than expected, the user may adjust the Distortion factor to fine-tune the correction effect based on the requirements. Take DL 24 mm F2.8 LS ASPH lens as an example, recommended correction factor for different frame types is as follows (note that the fine-tuning operation is required after applying the recommended correction factor):

Frame	Correction Factor
Full Frame	0.120 to 0.140
S35	0.090 to 0.110

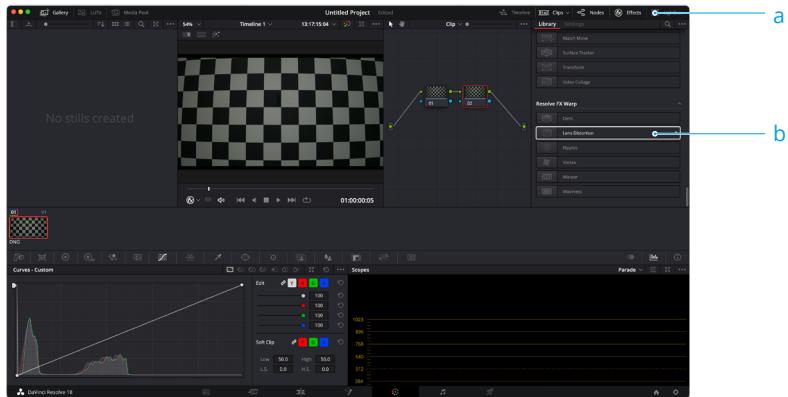


Method 2 (requires full version of Studio)

- Open the tuning window and right-click on the Node panel, then select Add Node > Add Serial to add a node for the lens correction.

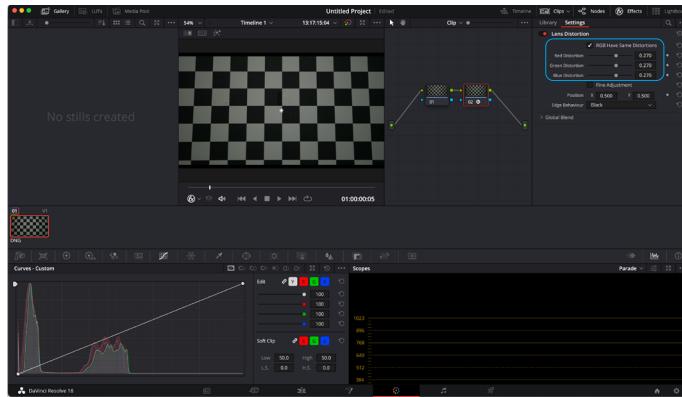


2. Click Effects and select Resolve FX Warp > Lens Distortion, and drag it to the 02 node on the Node panel to apply the effects.



3. On the Settings panel, select RGB Have Same Distortions and adjust any factor of the Red/Green/Blue Distortion to apply the lens correction effect. Take DL 24 mm F2.8 LS ASPH lens as an example, recommended correction factor for different frame types is as follows (note that the fine-tuning operation is required after applying the recommended correction factor):

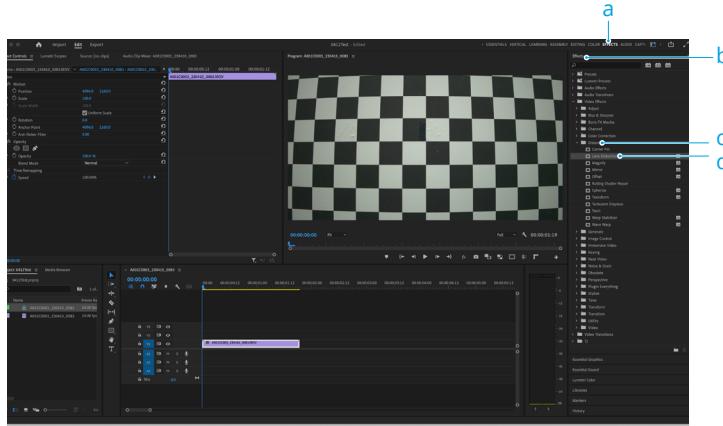
Frame Type	Correction Factor
Full Frame	0.24 to 0.29
S35	0.17 to 0.22



Adobe Premiere Pro

For ProRes RAW and CinemaDNG videos.

1. Select EFFECTS from the top bar, find Video Effects > Distort > Lens Distortion from the menu, and drag and drop it over the clips on the timeline.



2. After that, the lens distortion settings will appear in the Effects Controls menu where the user can adjust curvature to help correct lens distortion. Below is an example of the recommended correction factors for videos shot with a DL 24 mm F2.8 LS ASPH lens in different frames. Note that minor adjustments may also be needed as appropriate after applying the recommended correction factors.

Frame	Correction Factor
Full Frame	-6 to -9
S35	-2 to -5

