

Cooke / $\frac{1}{8}$ Technology Release Notes + FAQs

1. What's new with firmware version x.35?

- Improved timing
- Updated shading data

2. Can I update all my Cooke / $\frac{1}{8}$ lenses with the latest firmware?

- Lenses that have electronics boards with inertial sensors (/ $\frac{1}{8}$ ² & / $\frac{1}{8}$ ³ firmware versions) should be updated to the newest firmware versions shown in **red** in the table below.
- Older S4/ $\frac{1}{8}$ lenses with firmware 0.29 or 0.39, 5/ $\frac{1}{8}$ with firmware 5.03, miniS4/ $\frac{1}{8}$ with firmware 8.02, and Anamorphic / $\frac{1}{8}$ with firmware 5.03 cannot be updated to the newest firmware.
- Older S4/ $\frac{1}{8}$ lenses with firmware versions below 0.29 (10-bit board) or below 0.39 (12-bit board) should be updated to versions 0.29 or 0.39. Instructions for older lenses can be downloaded [here](#).

Lens type	/ $\frac{1}{8}$ (10 bit)	/ $\frac{1}{8}$ (12 bit)	1 st / $\frac{1}{8}$ ²	2 nd / $\frac{1}{8}$ ²	3 rd / $\frac{1}{8}$ ²	1 st / $\frac{1}{8}$ ³	2 nd / $\frac{1}{8}$ ³
			Inertial data	Expanded film size + shading data	Angle data	Distortion data	Improved timing and updated shading model
S4/ $\frac{1}{8}$	0.29	0.39	4.21	4.22	4.23	4.33-4.34	4.35
CXX Zoom	1.29	1.39					
5/ $\frac{1}{8}$		5.03	5.21	5.22	5.23	5.33-5.34	5.35
miniS4/ $\frac{1}{8}$		8.02					
Anamorphic / $\frac{1}{8}$		5.03	9.21	9.22	9.23		9.35
Anamorphic / $\frac{1}{8}$ SF			9.21	9.22	9.23		9.35
PANCHRO/ $\frac{1}{8}$ Classic PANCHRO/ $\frac{1}{8}$ Classic Full Frame			3.21	3.22	3.23	3.33-3.34	3.35
S7/ $\frac{1}{8}$			7.21	7.22	7.23	7.33-7.34	7.35
Anamorphic / $\frac{1}{8}$ 35-140			9.61	9.62	9.63		9.75
Anamorphic / $\frac{1}{8}$ Full Frame Plus			7.61	7.62	7.63		7.75
Anamorphic / $\frac{1}{8}$ SF Full Frame Plus					7.63		7.75
MACRO/ $\frac{1}{8}$ Full Frame Plus & S8 / $\frac{1}{8}$							2.36

5. How do I check which firmware is in my lens?

- The Cooke Lens Viewer display program runs on a Windows or Mac computer and can be used to view lens data and check firmware version. It can be downloaded from the Cooke Optics [website](#). You will need an / ∞ Data cable to connect lens to pc.
- Note: miniS4/ ∞ lenses need both the / ∞ Data cable and an / ∞ Update base to view lens data. The miniS4/ ∞ lenses do not have a side lemo connector so the metadata can only be accessed through the PL mount.
- Please contact lenses@cookeoptics.com if you need to order the / ∞ Data cable or / ∞ Update Base.

6. How do I use the Cooke / ∞ Technology Data Cable?

- You can find instructions on how to use the / ∞ Data cable [here](#).

7. How do I update the firmware in my / ∞ lens?

- You can download instructions to update the firmware in your lens [here](#). The instructions include links to the program and firmware files you will need.
- After you perform the firmware update, you will also need to run the Cooke Calibration program. Instructions to run the calibration program can be downloaded [here](#). These instructions include links for the program and files you will need.
- Note: The Cooke firmware update program and calibration program only run on Windows operating system.

8. How do I check the / ∞ lens data in my lens to make sure it is working correctly?

- The Cooke Lens Viewer Display program runs on a Windows or Mac computer and can be used to view lens data and verify your lens is functioning correctly. It can be downloaded from the Cooke Optics [website](#). You will need an / ∞ Data cable to connect lens to pc.
- Note: miniS4/ ∞ lenses need both the / ∞ Data cable and an / ∞ Update base to view lens data. The miniS4/ ∞ lenses do not have a side lemo connector so the metadata can only be accessed through the PL mount.
- Please contact lenses@cookeoptics.com if you need to order the / ∞ Data cable or / ∞ Update Base.

9. The aperture / focus / zoom positions do not all line up with the ring marks on my lens. How can I correct them?

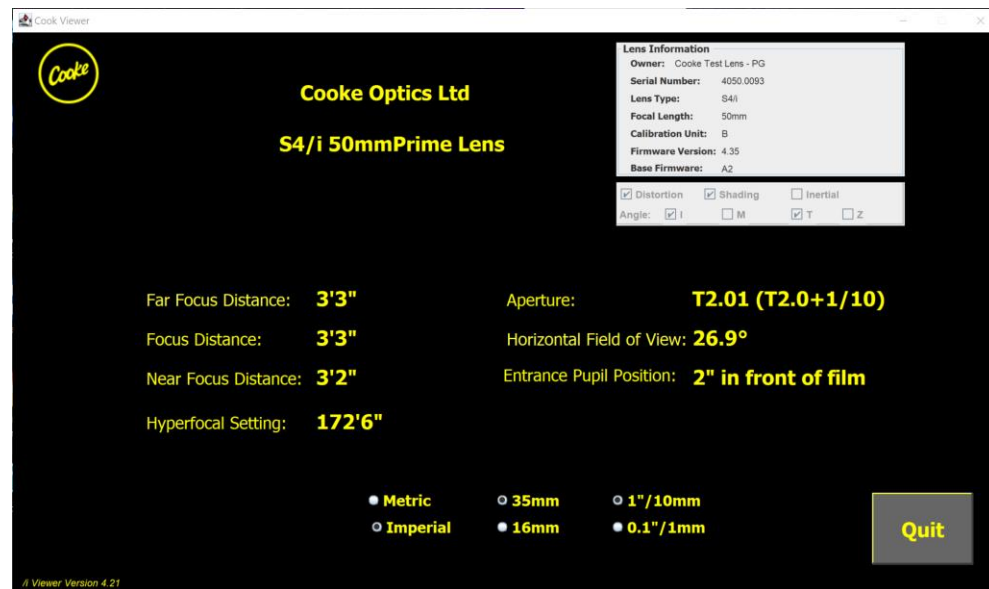
- Cooke provides a Calibration program that can be used to re-calibrate the focus, aperture and zoom rings on a Cooke lens. Instructions to run the calibration program can be downloaded [here](#). These instructions include links for the program and files you will need.
- The Calibration program only runs on Windows operating system.
- You will need an / ∞ Data cable to connect lens to pc.
- Note: miniS4/ ∞ lenses need both the / ∞ Data cable and an / ∞ Update base to view lens data. The miniS4/ ∞ lenses do not have a side lemo connector so the metadata can only be accessed through the PL mount.
- Please contact lenses@cookeoptics.com if you need to order the / ∞ Data cable or / ∞ Update Base.

10. How do I update my lens after installing a new electronics board?

- The board will come preinstalled with firmware at a default focal length. Follow the directions to calibrate lens and set the correct focal length described in the instructions [here](#).

11. How do I know if my lens has inertial data, shading and distortion data?

- Look at the information shown in the upper right-hand corner of the Cooke Lens Viewer Display program 4.2.3. You will see a check in the box next to Distortion, Shading and Inertial labels if that data is available with your lens.



12. Where can I find documentation on the latest /i Technology features?

- You can download the public /i Technology documentation from [here](#).

13. Is it possible to retrieve the distortion files and then map them in post with focus data?

- Yes. Shading and distortion maps for our spherical lenses can be retrieved from the cloud by entering the lens serial number. You can do this from our website: <https://cookeoptics.com/i-technology/> or directly from Amazon database: <https://d1h2cw6ugwvjin7.cloudfront.net/>

14. How do I know if my lens can work with ARRI wcu-4 unit?

- Look at the information shown in the upper right-hand corner of the Cooke Lens Display program. You will see checks in boxes next to the Angle label, (I for Imperial focus, M for metric focus, T for T-stop, Z for Zoom) if that data is available with your lens.