



S7/i[®]

Full Frame Plus Primes T2.0



Shoot 35mm, Super 35mm, Full Frame and Beyond

The Cooke S7/i, T2.0 Full Frame Plus Primes are designed to cover the emergent full frame cinema camera sensors up to at least the full sensor area of the RED Weapon 8K (46.31mm image circle).

Shoot 35mm/Super 35mm format as well as full frame, VistaVision and beyond.

Like all modern Cooke lenses, the S7/i range comes equipped with /i Technology for frame by frame digital information capture.

Available beginning June 2017 in focal lengths: 18, 25, 32, 40, 50, 75, 100 and 135mm.

/i[®] Technology

Each of our S7/i Classic prime lenses are supplied with the next generation of /i Technology and are designed for all PL mounted professional motion picture film and electronic cameras. Cooke's /i Technology provides cinematographers and camera operators with vital information including inertial tracking data in addition to lens setting, focusing distance, aperture and depth-of-field, hyperfocal distance, serial number, owner data, lens type and focal length in both metric and footage measurements. All the information can be captured frame-by-frame for real-time display and for use in postproduction.

Feature Highlights

- Focal lengths: 18, 25, 32, 40, 50, 75, 100 and 135mm
- T2.0 – T22 aperture
- Covers at least 46.31mm image circle
- Colour matched to Anamorphic/i, S4/i, miniS4/i, 5/i and Panchro/i Classic lenses
- Award-winning cam style mechanism for smooth focus adjustments
- Especially well balanced for astigmatism and correct for lateral and longitudinal aberrations over the entire image area.
- Supplied with the next generation of /i Technology for lens metadata capture
- Linear iris
- The Cooke Look,[®] of course.

Covered by U.S. and U.K. patents.
See Cookeoptics.com



Cooke S7/i[®] Technical Specifications



| | |
|--|---|
| Optical Design | The optics are designed to give maximum performance at full aperture with superior control of flare, distortion and spherical aberration. |
| $\frac{8}{1}$ Technology | Accessible via cable connector near the lens mount and contacts in mount that sync with $\frac{8}{1}$ compatible cameras and accessories. |
| Colour Balance | All Cooke S7/i prime lenses are colour balanced, colour-matched and compatible with Cooke Anamorphic/i, Panchro/i Classic, 5/i, S4/i and miniS4/i. |
| Aperture | T2.0 to T22 |
| Index Marks | Every index mark is labelled. More detailed markings allow for more detailed focus control. |
| Focus Movement | Our Academy Award [®] winning cam-style focus movement coupled with the added benefit of a large lens barrel diameter, has allowed for an increased number of focus markings, particularly at close focus. Spherical aberration has been controlled throughout the range of focal lengths to eliminate the need to compensate for changes in back focus with aperture. A four-point contact bearing provides a smooth positive backlash-free movement. |
| Camera Mounts | Cooke Hardened PL Mount with $\frac{8}{1}$ Technology contact. |
| Focus Scaling | Large, clear numerals on both sides of the focus barrel benefit the focus puller when shooting under difficult lighting conditions. |
| Compatibility | All Cooke S7/i primes have a common fixed front diameter of 110mm. |
| External Finish | A scratch resistant PTFE hard anodised finish is provided on all Cooke lenses, providing a durable, hard-wearing surface to meet the most demanding environmental conditions. |
| Iris | 9 leaves |
| Weight/Size Ratio | They are designed for all shooting applications, including handheld and Steadicam [®] , providing comfortable balance ratio with the latest compact cameras. |
| Reliability and Service | Cooke S7/i prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime. |
| Cases Available | To order |

Cooke S7/i[®]

Range of Lenses

| | Units | 18mm | 25mm | 32mm | 40mm | 50mm | 75mm | 100mm | 135mm |
|---|---|---------|---------|---------|---------|---------|---------|---------|---------|
| T Stop Range | | T2.0–22 |
| Angular Rotation of Iris Scale | Degrees | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Minimum Marked Object Distance | mm | 400 | 350 | 350 | 450 | 500 | 475 | 700 | 950 |
| | inches | 16 | 14 | 14 | 18 | 20 | 19 | 30 | 39 |
| Close Focus from Lens Front | mm | 158 | 109 | 109 | 209 | 259 | 234 | 459 | 709 |
| | inches | 6 | 4 | 4 | 8 | 10 | 9 | 18 | 28 |
| Angular Rotation to MOD Endstop | Degrees | 270 | 270 | 270 | 270 | 270 | 270 | 270 | 270 |
| Max. Diagonal Angle of View for Super 35 Format | Degrees | 78 | 61 | 50 | 41 | 33 | 23 | 17 | 13 |
| Max. Diagonal Angle of View for 24 x 36mm Format | Degrees | 100 | 82 | 68 | 57 | 47 | 32 | 24 | 18 |
| Length from Front of Lens to Lens Mount | mm | 200 | 189 | 177 | 189 | 189 | 189 | 189 | 189 |
| | inches | 7.87 | 7.44 | 6.97 | 7.44 | 7.44 | 7.44 | 7.44 | 7.44 |
| Maximum Front Diameter | mm | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| | inches | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 | 4.33 |
| Total Weight | kg | 3.5 | 3.3 | 3.4 | 3.5 | 3.4 | 3.0 | 3.3 | 3.7 |
| | lbs | 7.7 | 7.28 | 7.50 | 7.72 | 7.50 | 6.61 | 7.28 | 8.16 |
| Maximum Format Covered | 46.31mm diameter | | | | | | | | |
| Focus Scales | Two opposing focus scales – metric or footage. Scales marked from infinity to MOD | | | | | | | | |
| Focus Drive Gear | 140 teeth 0.8 metric module x 6.0mm wide x 103mm from image plane | | | | | | | | |
| Iris Scales | Two opposing linear T-scales – whole and third stops marked | | | | | | | | |
| Iris Drive Gear | 134 teeth 0.8 metric module x 4.0mm wide x 81mm from image plane | | | | | | | | |
| Internal Front Fitting Filter | | | | | | | | | |
| | All specifications subject to change | | | | | | | | |

Additional resources

Downloads <http://www.cookeoptics.com/s/technicaldocumentation.html>



About Cooke



For over 100 years, Cooke has been at the centre of the filmmaking business. We've been listening to the community of which we are a part. We lead by introducing innovative lenses and support products, like /i Technology because we know that our success is built on a simple idea—do what the filmmaker needs.

Our factory in Leicester, England has generations from the same family working side by side. That experience is unbeaten anywhere. We manufacture a full range of primes and zooms for 35mm and digital photography, as well as large format stills lenses.

We know our customers, and they know us, as individuals. Our rental partners do their training next to the craftsman who built their lenses. There are no barriers. We meet our customers at trade shows, on location around the world, and we welcome customers by appointment to our factory in the U.K. for an informal tour and discussion.

Our quality is monitored at every stage of manufacturing. Our Quality Control technicians carry out a 20 point check to ensure that the lenses leaving our factory are made to the highest quality possible. We're intolerant when it comes to tolerances. We research continuously to drive innovation. Our lenses are dependable and practical in use on the set; our optics superb. The lenses are straightforward to maintain—which is why so many rental facilities carry our products. We don't stop until we get each lens within our very tight specification. We get it right, whatever it takes.



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"To Cooke Optics Limited for their continuing innovation in the design, development and manufacture of advanced camera lenses that have helped define the look of motion pictures over the last century."

Academy Award of Merit
presented on February 9, 2013

At the heart of what makes Cooke special is "The Cooke Look." The Cooke Look® is about the science of creating beautiful images for the motion picture industry.

As a result, for over a century, cinematographers have chosen Cooke lenses for a smooth roundness and dimensionality to the picture and for the velvety skin tones that flatter.



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