



5/i[®]

T1.4 Prime Lenses



See in the dark. Literally.

See in the dark – with T1.4 speed and a focus ring that illuminates when you need it. External lamps are no longer necessary for the focus puller to see in the dark because this new design incorporates a simple on/off and dimmer to adjust the level of illumination desired on the focus ring. You now have the visibility you need without affecting the light coming into the camera.

Cooke 5/i optics offer superb optical and mechanical performance, control of flare, distortion, veiling glare and spherical aberrations at full aperture. The cam-type focus mechanism allows for smooth focus adjustments. Modular construction increases ease of maintenance and serviceability.

Cooke 5/i Prime Lenses were designed and developed in close technical collaboration with industry professionals. They are colour-matched and compatible with Cooke S4/i, miniS4/i, Anamorphic/i, Panchro/i Classic and S7/i lenses.

/i[®] Technology

Each of our 5/i prime lenses are supplied with /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 on 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 post-production.

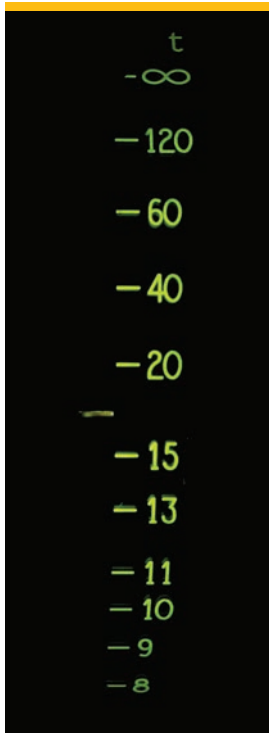


Feature Highlights

- Lenses available: 18, 25, 32, 40, 50, 65, 75, 100, and 135mm
- T1.4 to T22 aperture
- Linear iris
- /i[®] Technology for lens meta-data capture included as standard
- Innovative focus ring illumination for effective low-light operation
- The Cooke Look[®] and colour matched with all other Cooke lenses
- Unmatched ergonomics for DPs and assistants on-set
- Independent metric and footage scales included
- Award-winning cam-style focus mechanism allows for smooth focus adjustments
- Designed in the S4 tradition of construction



Cooke 5/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.
$\frac{1}{8}$ Technology	Accessible via cable connector near the lens mount and contacts in mount that sync with $\frac{1}{8}$ compatible cameras and accessories.
Colour Balance	All Cooke 5/i prime lenses are colour balanced, colour-matched and compatible with Cooke S4/i, miniS4/i, Anamorphic/i, Panchro/i Classic and S7/i.
Aperture	All Cooke 5/i primes have a true T1.4 aperture and cover Super 35mm format.
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.
Focus Illumination	The patented, dimmable, illuminated focus ring has two separately toggled light pipes that allow the camera operator or focus puller to read the focus scale in low lighting conditions. Illumination options are controlled on the lens or via an external controller.
Camera Mounts	Cooke Hardened PL Mount with $\frac{1}{8}$ Technology contact.
Focus Scaling	Large, clear numerals on both sides of the focus barrel benefit the focus puller when shooting under difficult lighting conditions. Plus the Entrance Pupil position is engraved on the lens.
Compatibility	All Cooke 5/i prime lenses have a common fixed front diameter of 110mm, with a focus drive gear of 140T x 0.8 mod and an iris drive gear of 134T x 0.8. <small>(Except the 135mm 5/i lens.)</small>
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	A seven-leaf linear module iris assembly is fitted into Cooke 5/i primes with an aperture range of T1.4 to T22.
Weight/Size Ratio	The lenses are designed for all shooting applications, including handheld and Steadicam [®] , providing comfortable balance ratio with the latest compact cameras.
Reliability and Service	Cooke 5/i prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime.
Cases Available	

Cooke 5/i[®]

Range of Lenses

	Units	18mm	25mm	32mm	40mm	50mm	65mm	75mm	100mm	135mm
T Stop Range		T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22	T1.4-T22
Angular Rotation of Iris Scale	Degrees	90	90	90	90	90	90	90	90	90
Minimum Marked Object Distance	mm	350	350	350	400	500	600	650	750	800
	inches	14	14	14	16	20	24	27	30	31
Close Focus from Lens Front	mm	127	121	121	171	271	370	421	520	531
	inches	5	5	5	7	11	15	17	21	21
Angular Rotation to MOD Endstop	Degrees	270	270	270	270	270	270	270	270	340
Maximum Diagonal Angle of View for Super 35 Format	Degrees	79.3	61.9	50.5	41.0	33.7	26.1	22.6	17.1	12.68
Length from Front of Lens to Lens Mount	mm	171	177	177	177	177	177	177	177	219
	inches	6.73	6.97	6.97	6.97	6.97	6.97	6.97	6.97	8.6
Maximum Front Diameter	mm	110	110	110	110	110	110	110	110	136
	inches	4.33	4.33	4.33	4.33	4.33	4.33	4.33	4.33	5.35
Total Weight	kg	3.03	2.98	2.78	2.76	3.23	3.08	2.99	2.89	5.1
	lbs	6.67	6.56	6.12	6.07	7.11	6.78	6.58	6.36	11.22

Maximum Format Cover 30mm Diameter (Super 35mm Format)

Focus Scales Two opposing focus scales – metric & footage. Scales marked from infinity to MOD

Focus Drive Gear 140 teeth 0.8 metric module x 5.0mm wide x 102.5mm from the image plane (135mm – 180 teeth 0.8 metric module x 5.0mm wide x 128mm 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 2.5mm wide x 82mm from image plane (135mm – 173 teeth 0.8 metric module x 2.5mm wide x 112mm from image plane)

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. Our manufacturing and testers keep going until we get each lens within our very tight specification. We get it right, whatever it takes.



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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"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

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