



Anamorphic/*i*[®] T2.3 Prime Lenses*



The Cooke Anamorphic/*i*[®] Look

All of the anamorphic characteristics demanded by filmmakers today with the Cooke Look[®] and oval bokeh. That's the Cooke Anamorphic/*i* Look. Images beautifully rendered for film and especially suited for use with digital cameras. Exceptionally well corrected aberrations over the entire image area – astigmatism, lateral and longitudinal colour – that will render shape, form and soul to your images.

While the “look” is crucial, precision engineering and seamless integration with other equipment is equally important. The Anamorphic/*i* primes in ten focal lengths are colour matched to our S4/*i*, 5/*i* and miniS4/*i* lenses.

Ideal for close-ups and product shots, the Cooke 65 mm Macro Anamorphic/*i* 2X Prime lens has magnification ratio 4.1:1 with close focus of 5.5” from front of lens.

Superb optical and mechanical performance. Distortion, veiling glare, flares, and all aberrations are controlled at all apertures over the whole field of view. Like our S4/*i*, 5/*i* and miniS4/*i* primes, the

cam focus mechanism allows for smooth focus adjustments. Modular construction increases ease of maintenance and serviceability. The Anamorphic/*i* lenses are designed and made by us to our traditional high standards in Leicester, England.

/*i*[®] Technology

Each of our Anamorphic/*i* 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 post-production.

Feature Highlights

- Lenses available: 25, 32, 40, 50, 65 MACRO, 75, 100, 135, 180 and 300mm, all with 2x squeeze
- T2.3 to T22 aperture
 - *T2.6 to T22 – 65mm MACRO
 - *T2.8 to T22 – 180mm
 - *T3.5 to T22 – 300mm
- Linear iris
- Offers anamorphic characteristics including 2:1 oval bokeh for out of focus highlights
- /*i* Technology for lens metadata capture included as standard
- The Cooke Look[®] and colour matched with all other Cooke lenses
- Especially well balanced for astigmatism and corrected for lateral and longitudinal aberrations over the entire image area
- Award-winning cam-style focus mechanism allows for smooth focus adjustments
- Superb optical and mechanical performance



Cooke Anamorphic/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.
/i[®] Technology	Accessible via cable connector near the lens mount and contacts in mount that sync with /i [®] compatible cameras and accessories.
Colour Balance	All Cooke Anamorphic/i prime lenses are colour balanced, colour-matched and compatible with Cooke 5/i, S4/i and miniS4/i.
Aperture	All Cooke Anamorphic/i primes have a true T2.3 aperture and cover Super 35mm format, except the 65mm MACRO which has a T2.6 aperture, the 180mm has a T2.8 aperture, and the 300mm has a T3.5 aperture.
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 /i [®] 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	With the exception of the 25, 65 MACRO and 300mm lenses, all Cooke Anamorphic/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 114T x 0.8. The 25, 65 MACRO and 300mm Cooke Anamorphic/i primes have a front diameter of 136mm.
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	An eleven-leaf linear module iris assembly is fitted into Cooke Anamorphic/i primes with an aperture range of T2.3 to T22; T2.6 to T22 on the 65mm MACRO, T2.8 to T22 on the 180mm, and T3.5 to T22 on the 300mm.
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 Anamorphic/i prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime.
Cases Available	

Cooke Anamorphic/ $\frac{1}{1.5}$ Range of Lenses

	Units	25mm	32mm	40mm	50mm	65mm MACRO	75mm	100mm	135mm	180mm	300mm
T Stop Range		T2.3– 22	T2.3– 22	T2.3– 22	T2.3– 22	T2.6– 22	T2.3– 22	T2.3– 22	T2.3– 22	T2.8– 22	T3.5– 22
Angular Rotation of Iris Scale	Degrees	90	90	90	90	90	90	90	90	90	90
Minimum Marked Object Distance	Metric Imp.	0.84 M 2' 9"	0.84 M 2' 9"	0.84 M 2' 9"	0.84 M 2' 9"	0.45M 18"	1 M 3' 3"	1.1 M 3' 8"	1.4 M 4' 8"	2M 6' 6"	3M 10'
Close Focus from Lens Front	Metric Imp.	0.55 M 1' 10"	0.55 M 1' 10"	0.55 M 1' 10"	0.55 M 1' 10"	0.14M 5.5"	0.8 M 2' 7"	0.9 M 2' 11"	1.2 M 3' 11"	1.65 M 5' 4"	2.58M 8' 5-1/2"
Angular Rotation to MOD Endstop	Degrees	300	300	300	300	300	300	300	300	300	300
Maximum Angle of View * Horizontal / Vertical	Degrees H V	96.9 41.0	77.5 32.6	62.8 26.3	50.7 21.2	36.9 15.6	34.1 14.2	25.7 10.7	19.1 7.9	13.9 5.7	8.5 3.5
Length from Front of Lens to Lens Mount	mm inches	195 7.68	195 7.68	195 7.68	195 7.68	258 10.10	195 7.68	195 7.68	195 7.68	296 11.65	378 14.88
Maximum Front Diameter	mm inches	136 5.35	110 4.33	110 4.33	110 4.33	136 5.35	110 4.33	110 4.33	110 4.33	110 4.33	136 5.35
Total Weight	kg lbs	2.77 6.11	2.68 5.90	2.93 6.47	2.74 6.03	5.2 11.5	2.64 5.81	2.93 6.47	2.93 6.47	5.5 12.0	8.8 19.40
Maximum Format Covered	33.54mm Diagonal										
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 6.0 wide x 102 from the rear of PL mount flange										
Iris Scales	Two opposing linear T scales – whole and third stops marked										
Iris Drive Gear	114 teeth 0.8 metric module x 4.0 wide x 82 from the rear of PL mount flange										
	Preliminary Specifications All specifications subject to change * Angle of view calculations based on Alexa Studio 4:3 camera										

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 new products such as /i Technology and our range of Anamorphic/i lenses, and we remember 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.



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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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