Anamorphic/i® Primes & Zooms

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, Cooke's precision engineering and seamless integration with other equipment is equally important.

Shoot from very wide angle to telephoto with the **Cooke 35-140mm Anamorphic/i T3.1 zoom**. Or, go extreme telephoto with the **Cooke 45-450mm Anamorphic/i T4.5 zoom** (shipping 2017). These are true, front anamorphic zooms with the creative flexibility that cinematographers have waited years to have.

The Cooke Anamorphic/i Prime lenses are available in 10 focal lengths, including our **65mm Macro Anamorphic/I prime lens** with 4.1:1 magnification ratio and close focus of 5.5" from front of lens making it ideal for close-ups and product shots.

Now, you have even more latitude. We went one step further with our **new Anamorphic/i SF** lenses that are specially made with a coating that allows for even more creative options. The "SF" stands for Special Flair because they allow you to kick the flares, bokeh and other aberrations into new visual territory. They are complementary to the Anamorphic/i lenses.

Like our S4/i, 5/i, miniS4/i, Panchro/i Classic and S7/i primes, the cam focus mechanism allows for smooth focus adjustments. Distortion, veiling glare, flares, and all aberrations are controlled at all apertures over the whole field of view. Modular construction increases ease of maintenance and serviceability.

/i® Technology

Each of our Anamorphic/i prime and zoom 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

Features – Zooms

- **35–140mm, T3.1–22, 4X zoom ratio / 45–450mm, T4.5–22, 10X zoom ratio**
- **Oval bokeh, throughout zoom and focus, along with the other coveted characteristics you want when shooting anamorphic**
- **Depth of field characteristics matched to the Anamorphic/i primes**

Features – Primes

- **Focal lengths: 25, 32, 40, 50, 65 MACRO, 75, 100, 135, 180 and 300mm**
- **T2.3–T22 aperture / 65mm Macro T2.6–T22 / 180mm T2.8–T22 / 300mm T3.5–T22**
- **Anamorphic characteristics including 2:1 oval bokeh for out of focus highlights**

Features in Common

- **True, front anamorphics with 2x squeeze**
- **Colour matched to S4/i, miniS4/i, 5/i, Panchro/i Classic and S7/i lenses**
- **Award-winning cam-style focus mechanism for smooth focus adjustments**
- **Especially well balanced for astigmatism and corrected 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 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 lenses are colour balanced, colour-matched and compatible with Cooke 5/i, S4/i, miniS4/i, Panchro/i Classic and S7/i.
Aperture	All Cooke Anamorphic/i primes have a true T2.3 aperture and cover Super 35mm format, except for the 65mm MACRO (T2.6), 180mm (T2.8) and the 300mm (T3.5). The 35-140mm zoom is T3.1 aperture and the 45–450mm zoom is T4.5.
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	All Cooke Anamorphic/i lenses have a common, fixed front diameter of 110mm, except for the 25, 65 MACRO and 300mm focal lengths and the Anamorphic/i zoom lenses, which are 136mm. All have an iris drive gear of 134T x 0.8.
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, except for the 65mm MACRO (T2.6 to T22), 180mm (2.8 to T22) and 300mm (T3.5 to T22). The 35-140mm zoom has an aperture range of T3.1 to T22 and the 45-450mm zoom has an aperture range of T4.5 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 Anamorphic/i prime lenses and zooms are designed to meet a market requirement for fully reliable performance with a minimum of downtime.
Cases Available	

Cooke Anamorphic/i®
Range of Lenses

	Units	25mm	32mm	40mm	50mm	65mm MACRO	75mm	100mm	135mm	180mm	300mm	35–140mm Zoom**	45–450mm Zoom
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	T3.1–22	T4.5–22
Angular Rotation of Iris Scale	Degrees	90	90	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′	1.2M 3′ 11″	1.83M 6′
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″	0.72M 2′ 4″	1.194M 3′ 11″
Angular Rotation to MOD Endstop	Degrees	300	300	300	300	300	300	300	300	300	300	300	270
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	 62.4 / 17.5 26.0 / 7.6	 49.1 / 6.0 20.0 / 2.6
Length from Front of Lens to Lens Mount	mm inches	203 8.0	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	430 16.93	537 21.2
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	136 5.35	136 5.35
Total Weight	kg lbs	4.2 9.26	3.2 7.06	3.4 7.50	3.6 7.94	5.2 11.46	3.2 7.06	3.4 7.5	4.2 9.3	5.8 12.8	9.3 20.7	10.3 22.6	TBC TBC
Maximum Format Covered	33.54mm Diameter (New Epic S35mm Format)												
Focus Scales	Two opposing focus scales – metric and footage. Scales marked from infinity to MOD												
Focus Drive Gear	140 teeth 0.8 metric module x 6.0mm wide x 102mm from the image plane / 35-140mm zoom has 172 teeth 0.8 metric module x 6.0mm wide x 283mm from the image plane / 45-450mm zoom has 211 teeth 0.8 metric module x 6.0mm wide x 170mm dia. 420mm from the 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 82mm from the image plane / Zooms have 134 teeth 0.8 metric module x 4.0mm wide x 83mm from the image plane												
Zoom Drive Gear	140 teeth 0.8 metric module x 6.0mm wide x 102mm from the image plane / 45–450mm zoom has 140 teeth 0.8 metric module x 6.0mm wide x 105mm from the image plane												

* Angle of view calculations based on Alexa Studio 4:3 camera
All specifications subject to change
** Preliminary Specifications

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.

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