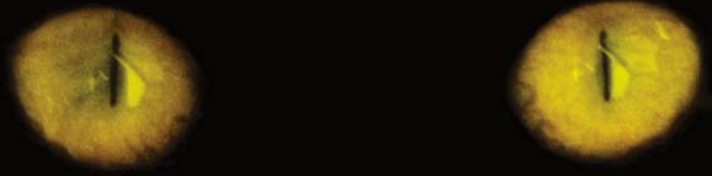




Cooke Optics 5/i Prime Lenses



See in the dark. Literally.

Great speed – T1.4

Illuminated focus ring

The Cooke Look

Everything you want and maybe didn't know you needed, until now...

Feature Highlights

- Lenses available 18, 25, 32, 40, 50, 65, 75, 100, and 135mm
- T 1.4 to T 22 aperture
- Innovative focus ring illumination for effective low-light operation
- Colour matched with all other Cooke lenses
- Unmatched ergonomics for DPs and assistants on-set
- /i Technology included as standard
- Independent metric and footage scales included
- Designed in the S4 tradition of serviceability
- Linear iris
- Cam-style focus

They are colour-matched and compatible with Cooke S4/i, Panchro by Cooke, CXX 15-40 mm T2 S4/i Zoom, 18-100mm T3.0 and 25-250mm T3.7 and the SK4 16mm lenses.

/i Technology

All 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. /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. For zoom lenses, the zoom position is displayed. Significantly, all the information is captured downstream for use in post-production.



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 Electronics

Accessible via cable connector near the lens mount and contacts in mount that sync with /i compatible cameras and accessories.

Colour Balance

All Cooke 5/i prime lenses are colour balanced to a specification within parameters approved by Kodak and are colour-matched and compatible with Cooke S4/i, Panchro by Cooke, CXX 15-40 mm T2 S4/i Zoom, 18-100mm T3.0 and 25-250mm T3.7 and the SK4 16mm lenses.

T1.4 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*

This revolutionary, 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

Arriflex PL Mount

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 primes 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.

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 eight-leaf linear module iris assembly is fitted into the 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

*Patent Pending

t
-∞
-120
-60
-40
-20
-15
-13
-11
-10
-9
-8

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 inches	250 14	350 14	350 14	450 16	500 20	600 24	650 27	750 30	TBD
Close Focus from Lens Front	mm inches	20 1	120 5	120 5	220 9	270 11	370 15	420 17	520 20	TBD TBD
Angular Rotation to MOD Endstop	Degrees	270	270	270	270	270	270	270	270	270
Maximum Diagonal Angle of View for Super 35 Format	Degrees	79.61	61.93	50.23	41.11	33.4	25.99	22.62	17.06	12.68
Length from Front of Lens to Lens Mount	mm inches	174 6.85	117 4.61	117 4.61	117 4.61	117 4.61	117 4.61	117 4.61	183 7.20	TBD TBD
Maximum Front Diameter	mm inches	110 4.33	110 4.33	110 4.33	110 4.33	110 4.33	110 4.33	110 4.33	110 4.33	TBD TBD
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 5.0 wide 102.5 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 2.5 wide x 82 from image plane									



Further resources

Depth of Field charts

<http://www.cookeoptics.com/cooke.nsf/technical/technical.html>

Downloads

<http://www.cookeoptics.com/cooke.nsf/technical/downloads.html>

About Cooke



For 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 now the 5/i range, and we remember 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, digital and Super 16mm photography, plus a range of 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 around the world, on location and we welcome customers by appointment to our factory in the UK for an informal tour and discussion.

Our quality is monitored at every stage of manufacturing and building the lens. Our Quality Control technical's 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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