

## MINIS4/点

## 4/្ភិំ T2.8 Prime Lenses



## **S4 Quality Deserves the S4 Name**

The miniS4/i lenses incorporate everything today's filmmakers ask for: smaller, lighter-weight lenses that offer the same resolution, optical quality and reliability as the S4/i lenses, but at a lower price — and, they are interchangeable for shooting film and digital images up to and beyond a 4K resolution.

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

The miniS4/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. The Cooke miniS4/i lenses are manufactured by us to our traditional high standards in Leicester, England.

## /ំំំំំ Technology

Each of our miniS4/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, 21, 25, 32, 40, 50, 65, 75, 100 and 135mm
- T2.8 to T22 aperture
- · Linear iris
- /£ Technology for lens metadata capture included as standard
- The Cooke Look® and colour matched with all other Cooke lenses
- Lightweight and compact; ideal for hand-held work
- Award-winning cam-style focus mechanism allows for smooth focus adjustments
- Cooke quality and S4/i-like construction





# Cooke <sup>MINI</sup>S4/∄ Technical Specifications



**Optional Uncoated Elements Available** 

Optical Design	The optics are designed to give maximum performance at full aperture with superior control of flare, distortion and spherical aberration.							
/និ Technology	Accessible via contacts in mount that sync with $/\underline{\mathtt{S}}$ compatible cameras and accessories							
Colour Balance	All miniS4/i prime lenses are colour balanced, color-matched and compatible with Cooke 5/i, S4/i, Anamorphic/i, Panchro/i Classic and S7/i.							
Aperture	All miniS4/i primes have a true T2.8 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.							
Camera Mounts	Cooke Hardened PL Mount with /£ 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 miniS4/i primes, except the 18mm, have a common fixed front diameter of 87mm, with a focus drive gear of 121T x 0.8 mod and an iris drive gear of 119T 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 miniS4/i primes with an aperture range of T2.8 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	miniS4/i prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime.							
Cases Available								
Optional Multi Mounts	Use Cooke miniS4/i lenses on Sony E and Micro 4/3 cameras. Single mount for all focal lengths in lens series. Optional mount replaces PL mount that comes standard. Use proper lens support.							





## Cooke <sup>MINI</sup>S4/≗ Range of Lenses

	Units	18mm	21mm	25mm	32mm	40mm	50mm	65mm	75mm	100mm	135mm		
T Stop Range		T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22	T2.8 -22		
Angular Rotation of Iris Scale	Degrees	77	77	77	77	77	77	77	77	77	96		
Minimum Marked Object Distance	mm inches	250 10	250 10	250 10	300 12	440 16	500 20	700 27	750 30	900 36	1000 39		
Close Focus from Lens Front	mm inches	80 3	80 3	93 4	139 5	240 9.5	311 12	500 20	564 22	711 28	790 31		
Angular Rotation to MOD Endstop	Degrees	300	300	300	300	300	300	300	300	300	300		
Maximum Diagonal Angle for S35 Format	Degrees	80	73	62	50	41	34	26	22	17	14.16		
Length from Front of Lens to Lens Mount	mm inches	120 4.72	110 4.33	106 4.17	110 4.33	110 4.33	137 5.39	135 5.32	137 5.39	137 5.39	157.8 6.21		
Maximum Front Diameter	mm inches	110 4.33	87 3.46	87 3.43									
Total Weight	kg lbs	1.3 2.86	1.56 3.44	1.4 3.08	1.6 3.52	1.7 3.74	1.5 3.30	1.6 3.52	1.6 3.52	1.6 3.52	1.8 3.96		
Max. Format Covered	33.54mm Diameter (New Epic S35mm Format)												
Focus Scales	Two opposing focus scales — metric or footage. Scales marked from infinity to MOD												
Focus Drive Gear	121 teeth 0.8 metric module x 5.0mm wide x 101mm from the image plane												
Iris Scales	Two opposing linear T scales — whole and third stops marked												
Iris Drive Gear	119 teeth 0.8 metric module x 2.5mm wide x 85mm from image plane												
Screw-In Filter	M82 x 0.75	(25mm	- 135mm	)									

Specifications subject to change

## **Additional resources**

**Downloads** 

http://www.cookeoptics.com/s/technicaldocumentation.html



## **About Cooke**





"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."

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Academy Award of Merit presented on February 9, 2013

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.



#### **Cooke Contact Information**

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