



PANCHRO/*i*[®]
Classic

Prime Lenses



The Cooke Panchro/*i*[®] Classic Look

The growing demand for vintage Cooke Speed Panchro lenses from the 1920s to 1960s, prompted us to introduce a modern redesign of the vintage classic. We are pleased to introduce **Cooke Panchro/*i* Classic**.

This modern redesign of the now legendary Speed Panchro recreates the same look and feel of the original with the advantage of modern glass mounted for today's cameras. The physical size of the lenses makes them ideal for handheld and Steadicam[®]. And, the new lenses come equipped with *i* Technology for frame by frame digital information capture, as do all modern Cooke cine lenses for film and digital capture.

The original Cooke Speed Panchro, designed by Horace W. Lee in the 1920s, was a cine prime lens that chromatically enhanced an image when filming under restricted illumination. Cooke Speed Panchros combined a relative aperture as wide as f2.0 with an angular field of view and definition previously impossible with much smaller apertures. They quickly gained a worldwide reputation for quality cinema production and were widely used throughout the 20th century.

Available beginning Spring 2017 in focal lengths: 18, 25, 32, 40, 50, 75, 100, 152mm.

i Technology

Each of our Panchro/*i* Classic 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 postproduction.

Feature Highlights

- Focal lengths: 18, 25, 32, 40, 50, 75, 100 and 152mm
- T2.2–T22 aperture except 18mm, 100mm and 152mm
- Colour matched to Anamorphic/*i*, S4/*i*, miniS4/*i*, 5/*i* and S7/*i* lenses
- Optional mounts available for Sony E and Micro 4/3 cameras. Replaces standard PL mount
- Optional uncoated elements available
- 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 Panchro/i[®] Classic 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 Panchro/i Classic prime lenses are colour balanced, colour-matched and compatible with Cooke Anamorphic/i, S7/i, 5/i, S4/i and miniS4/i.
Aperture	T2.2 to T22 except 18mm, 100mm and 152mm
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 $\frac{1}{8}$ Technology contact.
Focus Scaling	Large, clear numerals on both sides of the focus barrel benefit the focus puller when shooting under difficult lighting conditions.
Compatibility	All Cooke Panchro/i Classic primes have a common fixed front diameter of 110mm.
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	9 leaves
Weight/Size Ratio	They are designed for all shooting applications, including handheld and Steadicam [®] , providing comfortable balance ratio with the latest compact cameras.
Reliability and Service	Cooke Panchro/i Classic prime lenses are designed to meet a market requirement for fully reliable performance with a minimum of downtime.
Cases Available	To order
Optional Multi Mounts	Use Cooke Panchro/i Classic 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 Panchro/¹/₁ Classic

Range of Lenses

	Units	18mm	25mm	32mm	40mm	50mm	75mm	100mm	152mm
T Stop Range		TBC	T2.2–22	T2.2–22	T2.2–22	T2.2–22	T2.2–22	T2.6–22	TBC
Angular Rotation of Iris Scale	Degrees	90	90	90	90	90	90	90	90
Minimum Marked Object Distance	Metric Imp.	250mm 9"	250mm 9"	325mm 12"	450mm 16"	550mm 20"	800mm 30"	950mm 36"	1050mm 42"
Close Focus from Lens Front	Metric Imp.	TBC TBC	106mm 4.2"	TBC TBC	280mm 11"	380mm 15"	593mm 23.3"	743mm 29.3"	TBC TBC
Angular Rotation to MOD Endstop	Degrees	270	270	270	270	270	270	270	270
Max. Diagonal Angle of View for Super 35 Format	Degrees	80	60	50	41	33	22	16	12
Length from Front of Lens to Lens Mount	mm inches	TBC TBC	92 3.6	TBC TBC	118 4.6	118 4.6	155 6.1	155 6.1	TBC TBC
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
Total Weight	kg lbs	TBC TBC	1.5 3.3	TBC TBC	1.4 3.1	1.5 3.3	1.8 4.0	1.8 3.9	TBC TBC
Maximum Format Covered	30mm diameter (Super 35mm format)								
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 6.0mm wide x 105mm 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 4.0mm wide x 83mm from image plane								
Internal Front Fitting Filter	Internal thread for filter adapter M105 x 0.75 pitch								
	All 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. We don't stop 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.



Cooke Optics Limited

Cooke Close
Thurmaston
Leicester, LE4 8PT
United Kingdom

T +44 (0) 116 264 0700

F +44 (0) 116 264 0707

lenses@cookeoptics.com

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