

Cooke Macro Anamorphic. Pictures worth more than words.



## Cooke 65 mm Macro Anamorphic /i 2x Prime



Cooke is showing their new 65 mm Macro Anamorphic /i 2x Prime lens at IBC. The 65mm Macro has a close-up magnification ratio of 4.1:1. That's an area of 92 x 38 mm in real life—shown in actual size above.

### Cooke 65 mm Macro Anamorphic /i Specs

T-stop range: T2.6 - T22  
Min marked object distance: 450 mm (18")  
MOD: 420 mm (16.5")  
Light loss at MOD: 1/3 stop  
Close focus from lens front: 140 mm (5.5")  
Front diameter: 136 mm



Magnification: 4.1:1  
Max. angle of view (H/V) 36.9°/15.6°  
Angular rotation of iris scale: 90°  
Angular rotation of focus to MOD end stop: 300°  
Length from front of lens to mount: 258 mm (10.1")  
Product Photos by Richard West. Macro shots by Cooke Optics.

## Cooke 135 mm Anamorphic /i 2x Prime

The long-awaited Cooke 135 Anamorphic Prime is at IBC. Like the rest of the "S6" set, it's a front anamorphic (oval bokeh). The current Cooke 2x Anamorphic set is: 25, 32, 40, 50, 65 Macro, 75, 100 and 135 mm.

### Cooke 135 mm Anamorphic /i Specs

Aperture: T2.3-22  
Iris Rotation: 90 degrees  
MOD: 56 inches  
1422 mm  
Focus Rotation: 300 degrees  
Length: 7.68 inches  
195 mm  
Max Front Diam: 110 mm  
4.33 inches  
Total Weight : 2.93 kg  
6.47 lb  
Image diagonal: 33.54 mm



$$x' = x(1 + K_1r^2 + K_2r^4 + \dots) + [P_1(r^2 + 2x^2) + 2P_2xy][1 + P_3r^2 + \dots]$$
$$y' = y(1 + K_1r^2 + K_2r^4 + \dots) + [2P_1xy + P_2(r^2 + 2y^2)][1 + P_3r^2 + \dots]$$

The formula above is part of Cooke's new Enhanced /i<sup>2</sup> project. Luckily you don't have to do the math. That's done automatically by Cooke inside the lens.

What it really means is that you don't have to spend a day shooting lens distortion test charts each time you're checking out a lens for a VFX job. The lens distortion map is part of the metadata.

Cooke Enhanced /i<sup>2</sup> is introduced at IBC. Cooke Chairman Les Zellan explained, "We're adding this at the request of many in the

VFX community and it is our fervent hope that this pushes lens metadata across the finish line."

Enhanced /i<sup>2</sup> also includes inertial data, keeping track of the camera's movement. It's like the inertial data in your iPhone that tells you how many steps you took. As part of the lens, the data speeds up VFX tasks like match-moving and interpolating parts of a scene where tracking markers might have been obscured.

Cooke Optics IBC Booth 11.D10 [www.cookeoptics.com](http://www.cookeoptics.com)