

Objective Lenses

FOR C-MOUNT CAMERAS



FEATURES

- Universal C-mount for Cameras and Viewers
- Manual Focus
- Integral adjustable iris diaphragm
- Broadband lens coatings for near-infrared imaging



Electrophysics offers a wide range of objective lenses designed for 1" C-mount cameras and viewers. In general, the lenses feature manual focus and an integrated adjustable iris diaphragm. These lenses also feature broadband lens coatings making them ideal low cost solutions for imaging in the near-infrared spectral range with reduced flare and ghosting. A C-mount Extension Tube kit is also available for those applications requiring close focus and higher magnification.

Also included are two quartz objective lenses that are suitable for imaging from UV through Near-IR range.

These objective lenses perform well for monochromatic imaging in the noted spectral range. It is important to note that they are not chromatically corrected for the entire spectral range.

MODELS

L8F1.3	8mm F1.3 C-mount Lens with Iris
L16F1.6	16mm F1.6 C-mount Lens with Iris
L25F0.95	25mm F0.95 C-mount Lens with Iris
L25F1.6	25mm F1.6 C-mount Lens with Iris
L25F1.8	25mm F1.8 C-mount Lens with Iris
L50F1.4	50mm F1.4 C-mount Lens with Iris
L75F1.4	75mm F1.4 C-mount Lens with Iris
L135F2.8	135mm F2.8 C-mount Lens with Iris
Z12.5-75F1.2	12.5 - 75mm F1.2 C-mount Zoom Lens
XT	Extension Tube Set (set of 6 spacers)
LQ25F2.8	25mm F2.8 C-mount Quartz Lens with Iris
LQ78F3.8	78mm F3.8 C-mount Quartz Lens with Iris

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8mm F1.3

C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L8F1.3
Part #	914309
Focal Length	8 mm
Max Aperture Ratio	F1.3
Max Image Format	2/3" (11 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	1.3 - Close
Focus Range	0.2 m to infinity
Angular FOV DxHxV (2/3" format)	61.6°x 58.8°x 44.9°
Filter Size	M34.0 mm, P=0.5
Dimensions	37.0 mm OD x 30 mm L
Weight	72.5 g

16mm F1.6

C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L16F1.6
Part #	908001
Focal Length	16 mm
Max Aperture Ratio	F1.6
Max Image Format	2/3" (11 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	1.6 - Close
Focus Range	0.3 m to infinity
Angular FOV DxHxV (2/3" format)	37.8°x 30.8°x 23.4°
Filter Size	M35.5 mm, P=0.5
Dimensions	38.0 mm OD x 26.5 mm L
Weight	63 g

25mm F0.95

C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L25F0.95
Part #	903018
Focal Length	25 mm
Max Aperture Ratio	F0.95
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	0.95 - 16
Focus Range	0.4 m to infinity
Angular FOV DxHxV (1" format)	35.2°x 28.7°x 21.7°
Filter Size	M40.5 mm, P=0.5
Dimensions	46.0 mm OD x 47 mm L
Weight	105 g

Objective Lenses

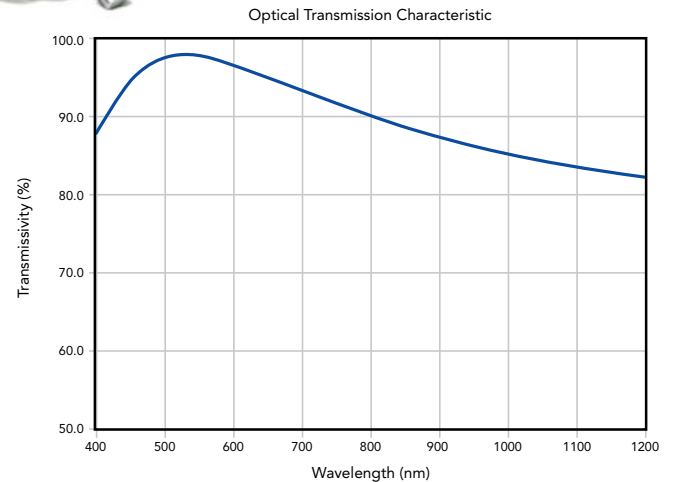
FOR C-MOUNT CAMERAS



25mm F1.6 C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L25F1.6
Part #	915255
Focal Length	25 mm
Max Aperture Ratio	F1.6
Max Image Format (1/1.8)	1" (9 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	1.4 - 16
Focus Range	0.1 m to infinity
Angular FOV DxHxV (1" format)	36.8° x 29.2° x 22.0°
Filter Size	M25.5
Dimensions	29 mm OD x 35 mm L
Weight	39 g



25mm F1.8 C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L25F1.8
Part #	915229
Focal Length	25 mm
Max Aperture Ratio	F1.8
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	400 - 2000 nm
Iris Range	1.8 - 16C
Focus Range	0.6 m to infinity
Angular FOV DxHxV (1" format)	34.79° x 28.24° x 21.44°
Filter Size	40.5 mm
Dimensions	42 mm OD x 40 mm L
Weight	87 g

50mm F1.4 C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L50F1.4
Part #	903020
Focal Length	50 mm
Max Aperture Ratio	F1.4
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	400 - 2200nm
Iris Range	1.4 - 16C
Focus Range	1.0 m to infinity
Angular FOV DxHxV (1" format)	18.2° x 14.6° x 10.5°
Filter Size	M46.0 mm, P=0.75
Dimensions	48.0 mm OD x 48 mm L
Weight	180 g

Objective Lenses

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75mm F1.4 C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L75F1.4
Part #	914029
Focal Length	75 mm
Max Aperture Ratio	F1.4
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	1.4 - 16C
Focus Range	1.2 m to infinity
Angular FOV DxHxV (1" format)	12.3°x 9.8°x 7.3°
Filter Size	M58.0 mm, P=0.75
Dimensions	62 mm OD x 79 mm L
Weight	450 g

135mm F2.8 C-Mount Lens with Iris



SPECIFICATIONS	
Model Designation	L135F2.8
Part #	908000
Focal Length	135 mm
Max Aperture Ratio	F2.8
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	2.8 - 22
Focus Range	1.5 m to infinity
Angular FOV DxHxV (1" format)	6.8°x 5.4°x 4.1°
Filter Size	M55.0
Dimensions	60 mm OD x 89 mm L
Weight	470 g

12.5 - 75mm F1.2 C-Mount Zoom Lens



SPECIFICATIONS	
Model Designation	Z12.5-75F1.2
Part #	908006
Focal Length	Variable 12.5-75 mm
Max Aperture Ratio	F1.2
Max Image Format	2/3" (11 mm diagonal)
Spectral Transmission Range	400 - 2200 nm
Iris Range	1.2 - 16C
Focus Range	1.0 m to infinity
Angular FOV DxHxV (2/3" format)	Wide: 48.4°x 38.6°x 29.2° Tele: 8.2°x 6.4°x 5.1°
Filter Size	M55.0 mm, P=0.5
Dimensions	37.0 mm OD x 108 mm L
Weight	500 g

Objective Lenses

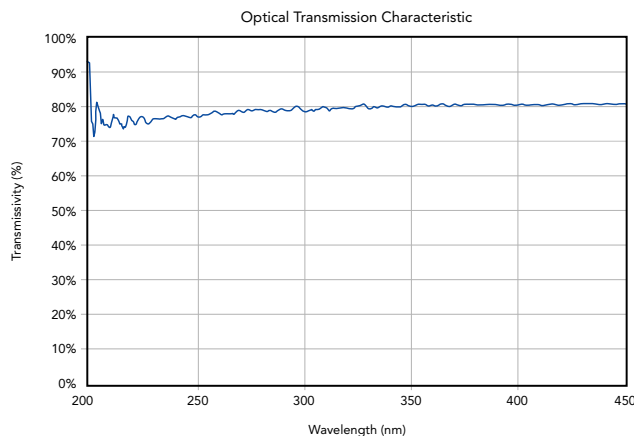
FOR C-MOUNT CAMERAS

25mm F2.8

C-Mount Quartz
Lens with Iris



SPECIFICATIONS	
Model Designation	L25F2.8
Part #	914099
Focal Length	25 mm
Max Aperture Ratio	F2.8
Max Image Format	1"
Spectral Transmission Range	200 - 2200 nm
Iris Range	2.8 - 16
Focus Range	0.2 m to infinity
Angular FOV DxHxV (2/3" format)	37.2°x 29.7°x 22.2°
Filter Size	M25.5 mm, P=0.5
Dimensions	38.0 mm OD x 26.5 mm L
Weight	65 g



Contact us today to discuss how our C-mount Objective Lenses can meet your application requirements.

Because of ongoing product updates, specifications are subject to change without notice.

78mm F3.8

C-Mount Quartz
Lens with Iris



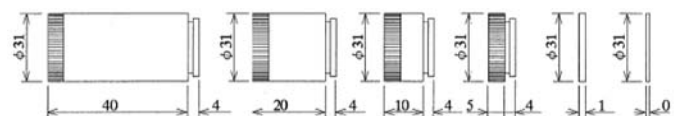
SPECIFICATIONS	
Model Designation	LQ78F3.8
Part #	914160
Focal Length	78 mm
Max Aperture Ratio	F3.8
Max Image Format	1" (16 mm diagonal)
Spectral Transmission Range	200 - 2200 nm
Iris Range	3.8 - 22
Focus Range	1 m to infinity
Angular FOV DxHxV (1" format)	29.2°x 22.0°x 36.5°
Filter Size	M49 mm, P=0.75
Dimensions	56 mm OD x 139 mm L



C-Mount Extension Tube Set

Extension tubes are an accessory for cameras with removable lens cameras. When inserted between the objective lens and camera, the tubes move the lens away from the camera's detector which results in a closer minimum object distance. This also results in a reduction in image brightness. In addition, the objective lens will no longer focus at infinity.

The extension tube set consists of 6 tubes having lengths 0.5, 1.0, 5.0, 10.0, 20.0 and 40.0mm. The longest four tubes have a male C-mount filter thread on the camera side and a female C-mount filter thread on the lens side.



Distribution in the UK & Ireland



**Characterisation,
Measurement &
Analysis**

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