

EMERALD

These compact and fast lenses with image circles ranging from 43.2mm up to 90mm are designed for large area and line scan sensors.



| EMERALD | Aperture | f' (mm) | Mount | Sensor Size (mm) | Type | Size D x L (mm x mm) | Weight (g) | Filter thread | ID |
|------------------------|----------|---------|-------|------------------|----------|----------------------|------------|---------------|---------|
| EMERALD 2.8/28 F-SD | 2.8–22 | 28 | F | 43.2mm | standard | 65 x 99.1 | 517 | M62 x 0.75 | 1071609 |
| EMERALD 2.8/28 V48-SD | 2.8–22 | 28 | V48 | 43.2mm | standard | 65 x 99.1 | 523 | M62 x 0.75 | 1071611 |
| EMERALD 2.8/28 F-LD | 2.8–22 | 28 | F | 43.2mm | standard | 65 x 98.7 | 510 | M62 x 0.75 | 1071606 |
| EMERALD 2.8/28 V48-LD | 2.8–22 | 28 | V48 | 43.2mm | standard | 65 x 98.7 | 522 | M62 x 0.75 | 1071610 |
| EMERALD 2.2/50 F | 2.2–16 | 50 | F | 43.2mm | standard | 59.6 x 43.2 | 196 | M43 x 0.75 | 1062672 |
| EMERALD 2.2/50 V48 | 2.2–16 | 50 | V48 | 43.2mm | standard | 55 x 43.2 | 202 | M43 x 0.75 | 1070074 |
| EMERALD 4.0/60 F | 4.0–16 | 60 | F | 62.5mm | standard | 59.6 x 43.2 | 262 | M43 x 0.75 | 1085115 |
| EMERALD 4.0/60 V48 | 4.0–16 | 60 | V48 | 62.5mm | standard | 55 x 43.2 | 197 | M43 x 0.75 | 1086887 |
| EMERALD 4.0/80 F | 4.0–16 | 80 | F | 43.2mm | standard | 59.6 x 62.6 | 439 | M43 x 0.75 | 1085723 |
| EMERALD 4.0/80 V48 | 4.0–16 | 80 | V48 | 82mm | standard | 55 x 43.2 | 204 | M43 x 0.75 | 1086888 |
| EMERALD 2.8/100 F-SD | 2.8–22 | 100 | F | 43.2mm | standard | 60 x 98.2 | 441 | M43 x 0.75 | 1064881 |
| EMERALD 2.8/100 V48-SD | 2.8–22 | 100 | V48 | 43.2mm | standard | 55 x 68.4 | 317 | M43 x 0.75 | 1070119 |
| EMERALD 2.9/100 F-LD | 2.9–22 | 100 | F | 43.2mm | standard | 60 x 101 | 442 | M43 x 0.75 | 1070506 |
| EMERALD 2.9/100 V48-LD | 2.9–22 | 100 | V48 | 43.2mm | standard | 55 x 68.4 | 318 | M43 x 0.75 | 1073834 |
| EMERALD 5.6/135 V48 | 5.6–22 | 135 | V48 | 90mm | standard | 55 x 63 | t.b.d. | M49 x 0.75 | 1104199 |

THE STANDARD FOR LARGE SENSORS

Key Features:

- Image circle: 43.2mm to 90mm
- 6 focal lengths: 28mm to 135mm
- F-Mount and V48-Mount lenses available
- Covering a wide working distance range
- Initial apertures: F2.2 - F5.6

Typical applications:

- Machine Vision
- AOI (Automated Optical Inspection)
- 3D and 2D measurement
- Robotic Vision
- Traffic and surveillance

EMERALD LENSES FOR THE INDUSTRY

The outstanding feature of the EMERALD lenses is their ability to cover a wide range of working distances. With a maximum aperture of F2.2 to F5.6, EMERALD lenses provide clear and precise images even under difficult lighting conditions. Designed specifically for large sensors, these lenses offer outstanding image quality. Their robust mechanics ensure reliable performance even in demanding and harsh environments. The special focus adjustment and locking mechanism ensures precise and stable focus adjustment.

EMERALD lenses are available in six different focal lengths from 28mm to 135mm. They offer a variety of options for different imaging situations. To meet the requirements of different cameras, the lenses are available with both F-Mount and V48-Mount where multiple V48 adapters are available for all common camera thread mounts. The compact and fast lenses with image circles from 43.2mm to 90mm are designed for large area and line sensors.

MORE INFORMATION

Discover the variety of our high quality lenses. For more technical details on the lenses and datasheets, please visit our website: www.schneiderkreuznach.com/emerald



SCHNEIDER-KREUZNACH

Jos. Schneider Optische Werke GmbH
Business Unit Industry
Ringstrasse 132
55543 Bad Kreuznach | Germany

Tel. +49 (0) 671 601 205
isales@schneiderkreuznach.com
www.schneiderkreuznach.com

01/2024

