

Features

- CS-Mount
 - DC Auto Iris
 - Varifocal
- Options:
- IR-Corrected
 - Megapixel



Description

Varifocal lenses

Siquira® varifocal lenses are the ideal solution for almost all installations. Easily adjustable and easy to install, they require little or no knowledge and training. All varifocal lenses offer a maximum flexibility as they can be adjusted to match the exact scene required by the end user. All Siquira® lenses are auto-iris, direct drive lenses, so they can automatically control the picture's light and adjust to variations. The Siquira® varifocal lens series covers a wide range of views, from 1.8mm (almost fisheye) to 40mm for close-up views.

CS-mount

The Siquira® lenses are CS mount and fit on Siquira® BC-series CS mount cameras.*

F-stop

A low f-stop or aperture, (e.g. f1.0), means the lens can pass more light, allowing the camera to produce a better image under dark conditions. However, a high f-stop will prevent the camera from "whitening" where there is a lot of light and gives a larger depth of field.

IR-corrected

"Day & Night" cameras, such as the Siquira® BC12, BC14WDR, BC62, and BC64, normally operate in the near-infrared/infrared zones at night. IR-corrected lenses are manufactured with special glass and coating. This combination allows the lens to deliver perfect focus in normal lighting and also under IR illumination by transmitting more light from the infrared region. As a result, refocusing is not required when using infrared lighting.

Megapixel

Megapixel lenses offer minimal distortion and therefore provide excellent optical performance from the center to the corners.

Ordering Information

| Model | Description |
|-------|---|
| VL01 | 1/3", 1.8-3.6mm, f1.6, DC auto-iris |
| VL11 | 1/3", 2.9-8.2mm, f1.0, DC auto-iris |
| VL12 | 1/3", 2.9-8.2mm, f1.0, DC auto-iris, IR-corrected |
| VL22 | 1/3", 2.8-12mm, f1.3, DC auto-iris, IR-corrected |
| VL23 | 1/3", 2.8-12mm, f1.3, DC auto-iris, IR-corrected, 1.3 Megapixel |
| VL24 | 1/3", 3-8mm f1.2, auto-iris, IR-corrected, 3.0 Megapixel |
| VL31 | 1/3", 8.5-40mm, f1.3, DC auto-iris, IR-corrected |
| VL32 | 1/3", 5.0-50.0mm, f1.6, DC auto iris, IR-corrected, 1.3MP |
| VL34 | 1/2", 8.0-80.0mm, f1.6, DC auto iris, IR-corrected, 3.0MP |

* The VL-34 is a C-mount lens

Lenses

Technical specifications

Varifocal standard resolution lenses

| Optical | VL01 | VL11 | VL12 | VL22 | VL31 |
|--|---|-----------------|-----------------|--------------|-----------------|
| IR-Corrected | - | - | | Yes | |
| Megapixel | - | - | - | - | - |
| Mount | CS-Mount | | | | |
| Focal Length (mm) | 1.8-3.6 | 2.9-8.2 | 2.9-8.2 | 2.8-12 | 8.5-40 |
| Back Focal Length (mm) Tele | 10.5 | 14.0 | 19.2 | 10.6 | |
| Back Focal Length (mm) Wide | 7.0 | 7.8 | 7.8 | 7.2 | 9.0 |
| Flange Back Length (mm) | 12.5 | 12.5 | 12.5 | 12.5 | 12.5 |
| Maximum Aperture Ratio | 1:1.6 | 1:1.0 | 1:1.0 | 1:1.3 | 1:1.3 |
| Effective Lens Aperture (mm) Front | ø22.0 | ø18.8 | ø19.0 | ø23.0 | ø27.0 |
| Effective Lens Aperture (mm) Rear | ø7.9 | ø9.0 | ø8.5 | ø7.4 | ø9.3 |
| Operation Range Iris | F1.6-F360C | F1.6-F360C | F1.0-F360C | F1.3-F360C | F1.3-F360C |
| Maximum Image Format (mm) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) |
| Operation Range Focus | 0.2m-∞ | 0.5m-∞ | 0.5m-∞ | 0.3m-∞ | 0.8m-∞ |
| Operation Range Zoom | 1.8-3.6 | 2.9-8.2 | | 2.8-12 | 8.5-40 |
| Control Iris | Auto-Iris | | | | |
| Control Focus | Manual | | | | |
| Control Zoom | Manual | | | | |
| Angle of View (°) with 1/3" Camera - D | 173.8-99.0 | 133.9-44.2 | 125.6-44.7 | 133.0-29.7 | 43.9-8.9 |
| Angle of View (°) with 1/3" Camera - H | 144.2-79.4 | 98.3-35.2 | 95.0 | 35.6 | 33.5-7.1 |
| Angle of View (°) with 1/3" Camera - V | 109.4-59.6 | 70.7-26.3 | 69.0-26.7 | 74.2-17.8 | 24.4-5.3 |
| Supply Voltage | 8-16 | 8.5-16 | | | |
| Current (mA) | <35 | <40 | <40 | <40 | <40 |
| Response Time (sec.) | ±2 | | | | |
| Light Weighting Method | Adjustable between average - Peak (Set to average at factory) / over case | | | | |
| Input Signal | Video signal (V. or V.S.) | | | | |
| Iris Accuracy | ±15% at video signal level | | | | |
| Sensitivity Adjustment | 0.5 V (p-p) - 1.0 V (p-p) (Video Signal) | | | | |
| Input Impedance | High | | | | |
| Dimensions (mm) | ø37.4x42.6x51 | ø33.5x46.6x44.3 | ø33.5x46.6x44.3 | ø37.5x48x56 | ø41.7x57.5x62.9 |
| Weight (g) | 83 | 54 | 54 | 74 | 115 |
| Operating Temperature (°C) | -20 to +50°C | -10 to +50°C | | | -20 to +50°C |



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Lenses

Technical specifications

Varifocal megapixel lenses

| Optical | VL23 | VL24 | VL32 | VL34 |
|--|---|--------------|-----------------|-----------------|
| IR-Corrected | Yes | | | |
| Megapixel | Yes | | | |
| Mount | CS-Mount | | | C-Mount |
| Focal Length (mm) | 2.8-12 | 3-8 | 5-50 | 8-80 |
| Back Focal Length (mm) Tele | 19.2 | 7.8 | 7.46 | 13.32 |
| Back Focal Length (mm) Wide | 7.2 | 7.8 | 7.52 | 15.65 |
| Flange Back Length (mm) | 12.5 | 12.5 | 12.5 | 17.526 |
| Maximum Aperture Ratio | 1:1.3 | 1:1.2 | 1:1.6 | 1:1.6 |
| Effective Lens Aperture (mm) Front | ø23.0 | ø20.9 | ø26.0 | ø38.0 |
| Effective Lens Aperture (mm) Rear | ø7.4 | ø10.5 | 7.4ø | ø12.0 |
| Operation Range Iris | F1.3-F360C | F1.2-F360C | F1.6-T360 | F1.6-T360 |
| Maximum Image Format (mm) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) | 4.8x3.6 (ø6) | 6.4x4.8 (ø8) |
| Operation Range Focus | 0.3m-∞ | 0.3m-∞ | 0.3m-∞ | 1.5m-∞ |
| Operation Range Zoom | 2.8-12 | 3-8 | 5-50 | 8-80 |
| Control Iris | Auto-Iris | | | |
| Control Focus | Manual | | | |
| Control Zoom | Manual | | | |
| Angle of View (°) with a 1/3" Camera - D | 133.0-29.7 | 115.8-43.9 | 75.95-5.67 | 43.47-4.09 |
| Angle of View (°) with a 1/3" Camera - H | 102.2-23.7 | 90.7-35.2 | 51.17-5.30 | 34.58-3.32 |
| Angle of View (°) with a 1/3" Camera - V | 74.2-17.8 | 67.3-26.5 | 39.36-4.07 | 26.35-2.39 |
| Supply Voltage | 8.5-16 | 8.5-16 | 4.5-16 | 8.5-16 |
| Current (mA) | <40 | <40 | 23 | |
| Response Time (sec.) | ±2 | | | |
| Light Weighting Method | Adjustable between average - Peak (Set to average at factory) / over case | | | |
| Input Signal | Video signal (V. or V.S.) | | | |
| Iris Accuracy | ±15% at video signal level | | | |
| Sensitivity Adjustment | 0.5 V (p-p) - 1.0 V (p-p) (Video Signal) | | | |
| Input Impedance | High | | | |
| Dimensions (mm) | ø37.5x48x56 | ø37x48.2x55 | ø40.5x55.2x58.6 | ø54.0x66.1x89.2 |
| Weight (g) | 74 | 61 | 85 | |
| Operating Temperature (°C) | -10 to +50°C | | | |



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