



# Megapixel Lenses

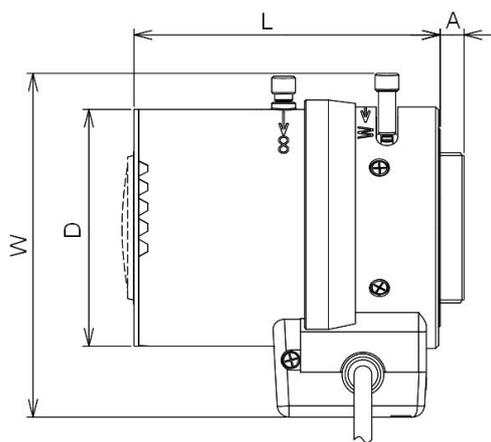
Varifocal lenses with high quality aspherical glass optics



CLVD1316/3-8  
CLVD1316/5-50  
CLVD1316/2-8-8  
CLVD1316/8-50

Siemens innovative Megapixel lenses have been developed to ensure they are compatible with the latest IP cameras in the market. Our ultra-high resolution lenses (up to 3 megapixels) deliver maximum performance, thanks to their innovative optical technology, and offer excellent contrast from the centre of the image to the edges. All Siemens lens benefit from aspherical glass, and ensure sharp, noise-free images. All models are direct-drive (DC) auto iris, and their high optical and mechanical quality makes these lenses an excellent choice for security applications. Adjustable screw locks ensure focal-length and focus adjustments are easy to set up and maintain the accurate settings selected by the installer over time. The day/night lens lineup sustains focus from the visible light range to near infrared.

- Specifically designed for use with Megapixel cameras
- Aspherical lenses ensure excellent image quality
- Auto-iris (DC) lenses supplied with pre-fitted plug
- High reliability galvanometric auto-iris mechanisms
- Integrated F360 neutral density filter makes these lens ideal for indoor & outdoor applications
- Screw-lock focal length & focus adjustment
- Enlarged focus mechanism range allows optimum fine adjustment of focus/sharpness (for the 3MP variants)
- Slip-mount mechanism
- CS-mount
- Compact size



## Functionalities

### ■ CLVD Series

Varifocal, manual focus, direct drive (DC-type) auto-iris lenses with standardized plug.

### ■ IR-corrected lenses

Unlike standard lenses, IR corrected lenses compensate the focus shift without focus adjustment, which occurs when the illumination changes from visible to infrared light.

### ■ Multi-coated lenses

Multiple-layer coating prevents light losses in both visible and infrared ranges, improving transmission, and reducing ghost and flare effects.

### ■ Technical data

### ■ Slip-mount mechanism

Each lens is equipped with a slip-mount mechanism that allows rotational adjustment of the lens after it is mounted on a camera. This allows optimal positioning of the auto-iris actuator and cable during installation

### ■ Aspherical lenses

An aspherical lens focuses the light passing through its centre and the light passing through its edges on a single point. This results in crisp, sharply focused images in the center and in the corners of the image.

### ■ Megapixel lenses

Megapixel resolutions are ideal for image cropping and enlarging, and ensure that subject faces and other relevant information can be clearly identified and distinguished, resulting in ideal solutions for high resolution network video surveillance applications.

### ■ LD & AD Glass element

Each lens is made with Low Dispersion (LD) glass element and Anomalous Dispersion (AD) glass element which both improve the lens optical performance by reducing the chromatic aberration (Color distortion).

Type	CLVD1316/3-8	CLVD1316/5-50	CLVD1316/2,8-8	CLVD1316/8-50
Focal Length (f)	3 – 8 mm	5 – 50 mm	2.8 – 8 mm	8 – 50 mm
Video Sensor size (recommended for)	1/3"	1/3"	1/3" (1/2.7")	1/3" (1/2.7")
Recommended usage for camera sensor resolution	up to 1.5MP	up to 1.5MP	up to 3MP	up to 3MP
Mount Type	CS	CS	CS	CS
Iris Control	Direct Drive (DC) Auto-Iris			
Aperture range	F1.0 – F360	F1.4 – F360	F1.2 – F360	F1.6 – F360
Horizontal angle of view	35.4° – 92.5°	5.5° – 53.8°	35.8° – 100.1°	5.6° – 33.5°
Vertical angle of view	26.5° – 68.2°	4.2° – 40.3°	26.8° – 72.9°	4.2° – 25.1°
Minimum object distance (MOD)	0.3 m	1 m	0.3 m	0.3 m
Focus type	Manually adjustable with lock			
Aspherical lens	Yes	Yes	Yes	Yes
Infrared corrected (Day/night)	No	No	Yes	Yes
Operating Voltage, Iris working Area: Open/Close	4.0V / 0.7V	4.0V / 0.7V	4.0V / 0.7V	4.0V / 0.5V
Operating temperature	-20 – +60 °C			
Dimensions (mm) :				
• D	40.0	40.0	40.9	44
• W (Max)	58.1	56.7	58.1	62.1
• L (Max)	54.4	60.2	54.1	73.5
• A	4	4	4	4

■ Details for ordering

Type	Part no	Designation	Weight*
CLVD1316/3-8	S54561-B300-A1	1.5 Megapixel Varifocal Lens 3–8mm CS mount Aspherical ; F1.0–360 ; 1/3"	0.075 kg
CLVD1316/5-50	S54561-B302-A1	1.5 Megapixel Varifocal Lens 5–50mm, CS mount Aspherical ; F1.4–360 ; 1/3"	0.077 kg
CLVD1316/2,8-8	S54561-B307-A1	3 Megapixel Varifocal Lens 2.8–8mm, CS mount Aspherical ; IR corrected ; F1.2–360 ; 1/3"	0.070 kg
CLVD1316/8-50	S54561-B101-A100	3 Megapixel Varifocal Lens 8–50mm, CS mount Aspherical ; IR corrected ; F1.6–360 ; 1/3"	0.170 kg

\* Device incl. packing material, accessories that are included in the delivery, and documentation

The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

© Siemens AG • Document no. A6V10360772 • Edition: 04.03.2013 • Document version: 2.0

Siemens AG  
Siemensallee 84  
D-76187 Karlsruhe  
Tel. +49 721 595 1

[www.siemens.com/securityproducts](http://www.siemens.com/securityproducts)