

Varifocal lenses



Security Systems



- High-quality optics
- 1/3-inch and 1/2-inch formats
- Reliable, robust construction
- Focal length options
- Compact design
- Manual and DC-iris versions
- Manual focus and zoom control

For optimizing angular fields right on site, varifocal lenses are the most versatile and practical solution available. These lenses allow for setting virtually any angle of field, which maximizes surveillance effects. Installers do not need to carry several different focal length lenses – and installation is more efficient because they can find the right angles of field without moving the camera set-up. If the field-of-view requirements change after installation, modification is simple by just altering the lens' focal length settings.

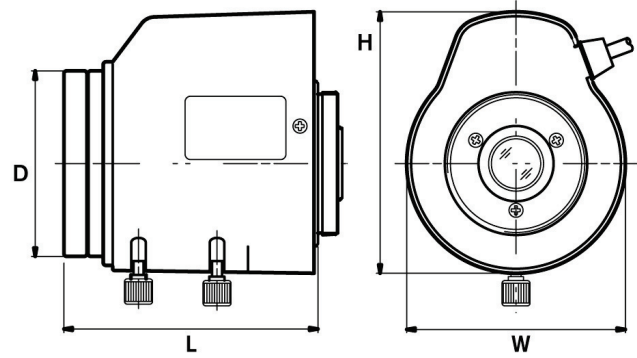
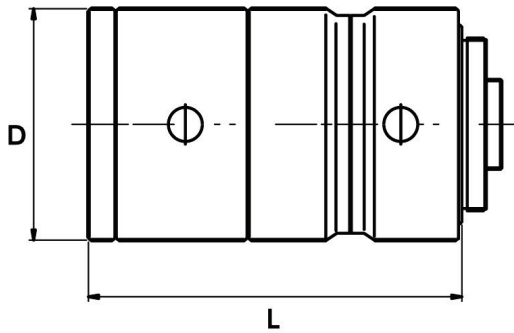
Functions

This series includes both manual and DC-iris varifocal lenses. They are compact, rugged, and available in 1/3-inch and 1/2-inch image formats. The series is organized by sensitivity, optical resolution, and range to match the wide range of Dinion camera applications.

These varifocal lenses come with a standard C or CS mount for use with a variety of cameras. The DC-iris control connection is a four-pin standard plug that fits directly into the camera's iris output. And the lenses deliver impressive optical quality due to their high standards for resolution, contrast reproduction, and coating.

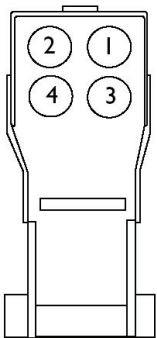
The mechanical construction is designed to withstand both frequent DC-iris control operations and the environmental stress of security installations. For flexible, high-quality, reliable lenses that match a camera's performance, this varifocal series is the ideal solution.

Installation/Configuration Notes



Lens Type	L mm (in)	D mm (in)
LTC 3271/40	86 (3.38)	54 (2.12)
LTC 3361/32	42 (1.65)	36 (1.42)
LTC 3361/40	59 (2.32)	44 (1.73)
LTC 3361/50	55 (2.17)	34 (1.34)
LTC 3361/60	45.3 (1.78)	33 (1.3)
LTC 3371/20	59.2 (2.33)	44 (1.73)
LTC 3371/50	61.5 (2.42)	44 (1.73)

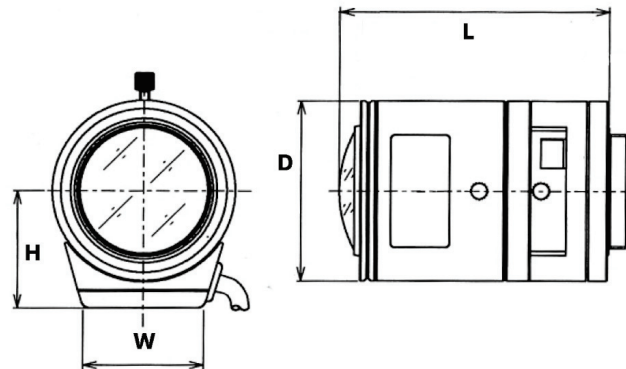
Lens Type	L mm (in)	D mm (in)	H mm (in)	W mm (in)
LTC 3264/30	43.5 (1.71)	34 (1.34)	42.6 (1.68)	38.6 (1.52)
LTC 3274/41	77 (3.03)	42 (1.65)	56.8 (2.24)	46.5 (1.83)
LTC 3364/21	44 (1.73)	35.2 (1.39)	45.7 (1.8)	40.4 (1.59)
LTC 3364/31	44 (1.73)	35.2 (1.39)	45.7 (1.8)	40.4 (1.59)
LTC 3364/50	55 (2.17)	34 (1.34)	46 (1.81)	40 (1.57)
LTC 3364/60	45.3 (1.78)	33 (1.3)	46.5 (1.83)	39 (1.54)
LTC 3374/50	61.5 (2.42)	44 (1.73)	52.2 (2.06)	44.4 (1.75)



4-pin Connector (Front view)

Passive-iris 4-pin

- Pin 1: Damping coil -
- Pin 2: Damping coil +
- Pin 3: Driving coil + (open)
- Pin 4: Driving coil -



Lens Type	L mm (in)	D mm (in)	H mm (in)	W mm (in)
LTC 3364/40	59 (2.32)	44 (1.73)	26.2 (1.03)	26.4 (1.04)
LTC 3374/40	59.2 (2.33)	41 (1.61)	33.2 (1.31)	25 (0.98)
LTC 3664/40	59 (2.32)	44 (1.73)	26.2 (1.03)	26.4 (1.04)

Varifocal Lenses 1/3"

	LTC 3361/32	LTC 3361/40	LTC 3361/50	LTC 3361/60	LTC 3364/21	LTC 3364/31
Image format	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Focal length	3 – 8 mm	2.8 – 12 mm	2.8 – 10 mm	3.5 – 8 mm	2.8 – 6mm	3.5 – 8mm
Iris range	1.0 to Close	1.4 to Close	F1.4 – close	F1.4 – close	F1.4 - 300	F1.4 - 300
Focus range	0.2m (0.66ft)	0.3m (1ft)	0.3 m (1 ft)	0.3 m (1 ft)	0.3m (1ft)	0.35 m (1.1ft)
Back focus distance	8.36 mm (0.33in)	8.6 mm (0.34in)	7.8 mm (0.3 in)	8.4 mm (0.33 in)	7.54mm (0.3in)	7.79 mm (0.31 in)
Weight	39 g (0.09 lb)	72 g (0.16 lb)	57 g (0.13 lb)	41 g (0.1lb)	59 g (0.13 lb)	55 g (0.12 lb)
Lens mount	CS	CS	CS	CS	CS	CS
Angle view Wide	91x67	97.4x72.5	83 x 62.4	77.6 x 58.2	96.9x72.5	79.8x58.8
Angle view Tele	36x27	24.1x18.1	28.8 x 21.6	33.6 x 25	46.7x35.1	35.4x26.6
Iris control	Manual	Manual	Manual	Manual	4-pin, DC control	4-pin, DC control
Focus ctrl	Manual	Manual	Manual	Manual	Manual	Manual
Zoom ctrl	Manual	Manual	Manual	Manual	Manual	Manual

Varifocal Lenses 1/3"

	LTC 3364/40	LTC 3364/50	LTC 3364/60	LTC 3371/20	LTC 3371/50	LTC 3374/20
Image format	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch	1/3-inch
Focal length	2.8 – 11 mm	2.8–10 mm	3.5 – 8 mm	5 – 50 mm	5 – 50 mm	5 – 50 mm
Iris range	F1.4 – 360	F1.4 to 360	F1.4 to 360	F1.4 to Close	F1.7 – close	F1.4 to 185
Focus range	0.3 m (1ft) to infinity	0.3 m (1ft)	0.3 m (1ft)	1m (3.3ft)	1 m (3.3 ft)	1m (3.3ft)
Back focus distance	8.6 mm (0.34 in)	7.8 mm (0.3in)	8.4mm (0.33in)	10.05 mm (0.4in)	7.6 mm (0.3 in)	10.05 mm (0.4 in)
Weight	79 g (0.17 lb)	69 g (0.15 lb)	53 g (0.13 lb)	85 g (0.187 lb)	149 g (0.33 lb)	97 g (0.213 lb)
Lens mount	CS	CS	CS	CS	CS	CS
Angle view Wide	97.4x72.4	83x62.4	77.6x58.2	53.4x40.1	50 x 37.8	53.4x40.1
Angle view Tele	26.2x19.7	28.8x21.6	33.6x52	5.3x4.1	5.5 x 4.1	5.3x4.1
Iris control	4-pin, DC control	4-pin, DC control	4-pin, DC control	Manual	Manual	4-pin, DC control
Focus ctrl	Manual	Manual	Manual	Manual	Manual	Manual
Zoom ctrl	Manual	Manual	Manual	Manual	Manual	Manual

Varifocal Lenses 1/2"

	LTC 3264/30	LTC 3274/41				
Image format	1/2-inch	1/2-inch				
Focal length	4.5 - 10 mm	7.5 – 75 mm				
Iris range	F1.6 - 360	F1.7 – 360				
Focus range	0.3 m (1ft) to infinity	0.3 m (1ft)				
Back focus distance	8.6 mm (0.34 in)	8.5 mm (0.34 in)				
Weight	50 g (0.11 lb)	220 g (0.48 lb)				
Lens mount	CS	C				
Angle view Wide	81.3x60.9	46.2 x 35.5				
Angle view Tele	38.2x28.7	4.9 x 3.7				
Iris control	4-pin, DC control	4-pin, DC control				
Focus ctrl	Manual	Manual				
Zoom ctrl	Manual	Manual				

Technical Specifications

Environmental

Operating Temperature	-10°C to +50°C (+14°F to +122°F)
Storage Temperature	-40°C to +70°C (-40°F to + 158°F)
Operating Humidity	Up to 93% non-condensing
Cerification	CE (DC-iris models)

Ordering Information

Model & Description

LTC 3331/21

1/3-inch, 4.0 mm manual-iris lens, CS-mount, F/1.2-close

LTC 3361/32

1/3-inch Varifocal lens 3.0 – 8 mm, manual-iris, CS-mount
F/1.0 - close

LTC 3361/40

1/3-inch Varifocal lens 2.8 – 12 mm, manual-iris, CS-mount
F/1.4 - close

LTC 3361/50

1/3-inch Varifocal lens 2.8 – 10 mm, manual-iris, CS-mount
F/1.4 - close

LTC 3361/60

1/3-inch Varifocal lens 3.5 – 8 mm, manual-iris, CS-mount
F/1.4 - close

LTC 3364/21

Varifocal lens, 1/3-inch, 2.8 – 6 mm, DC-iris, CS-mount
F/1.4 - 200, 4-pin

LTC 3364/31

Varifocal lens, 1/3-inch, 3.5 – 8 mm, DC-iris, CS-mount F/1.4 - 200,
4-pin

LTC 3364/40

Varifocal lens, 1/3-inch, 2.8 – 12 mm, DC-iris, CS-mount
F/1.4 - 360, 4-pin

LTC 3364/50

1/3-inch Varifocal lens 2.8 – 10 mm, DC-IRIS, CS-mount
F/1.4 - 360, 4 pin

LTC 3364/60

1/3-inch Varifocal lens 3.5 – 8 mm, DC-IRIS, CS-mount
F/1.4 - 360, 4 pin

LTC 3371/20

1/3-inch Varifocal lens 5 – 50 mm, manual iris, CS-mount
F1.4-close

LTC 3371/50

1/3-inch Varifocal lens 5 – 50 mm, manual iris, CS-mount F1.7-close

LTC 3374/20

Varifocal lens, 1/3-inch, 5 – 50 mm, DC-iris, CS-mount F/1.4-185,
4-pin

Ordering Information

Model & Description

LTC 3374/50

1/3-inch Varifocal lens 5 – 50 mm, DC-IRIS, CS-mount F1.7 to 360,
4-pin

LTC 3664/40

1/3-inch Varifocal lens 2.8 – 12 mm, DC-IRIS, CS-mount
F/1.4 - 360, 4 pin

LTC 3664/30

1/3-inch Varifocal lens 3 – 8 mm, DC-IRIS, CS-mount
F/1.0 - 360, 4 pin

LTC 3264/30

Varifocal lens, 1/2-inch, 4.5 – 10 mm, DC-iris, CS-mount
F/1.6 - 360, 4-pin

LTC 3271/40

1/2-inch Varifocal lens 7.5 – 75 mm, manual-iris

LTC 3274/41

Varifocal lens, 1/2-inch, 7.5 – 75 mm, DC-iris, F2.2-360

Americas:

Bosch Security Systems
130 Perinton Parkway
Fairport, New York, 14450, USA
Phone:+1 585 223 4060
+1 800 289 0096
security.sales@us.bosch.com
http://www.boschsecurity.us

Europe, Middle East, Africa:

Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands
Phone:+31 (0) 40 27 83955
Fax:+31 (0) 40 27 86668
emea.securitysystems@bosch.com
http://www.boschsecurity.com

Asia-Pacific:

Bosch Security Systems Pte Ltd
38C Jalan Pemimpin
Singapore 577180
Phone:+65 6319 3450
Fax:+65 6319 3499
apr.securitysystems@bosch.com
http://www.boschsecurity.com

