user's manual

NVL-298D/IR

- Designed for low light conditions (maximum aperture F1.0)
- Dedicated for use with IR illuminators
- Compatible with day / night camera
- Lenses made of ED glass
- Chromatic aberration correction
- Dual side aspherical lenses
- Spherical aberration correction
- Focal length 2,9 ~ 8 mm
- Auto Iris (D type control)

Novus IR range designed lenses are compatible with day and night cameras and dedicated for use with IR illuminators. By using advanced technology and special ED glass type (extra low dispersion) NVL-298D/IR lenses compensates chromatic aberration - different focusing for different wavelength range both visible and IR illumination. Dual sided aspherical lenses correct spherical aberrations and other light refraction distortions. NVL-298D/IR lenses provides crisp color images both for the daytime and nighttime IR illumination.

Model	NVL-298D/IR
Application	for day / night and B / W cameras (dedicated for use with IR illuminators)
CCD Format Size	1/3''
Focal Length	2.9 ~ 8 mm
Iris Operation	Auto (D)
Relative Aperture	F=1.0 ~ 360
Mount Type	CS
Angle of View (H)	92,4° ~ 35,6°
Weight	45 g

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IMPORTANT SAFEGUARDS

EMC (89/336/EEC) and LVD (73/23/EEC) Directives

CE Marking

Our products are manufactured to comply with requirements of following directives and national regulations implementing the directives:

Electromagnetic compatibility EMC 89/336/EEC with further amendments.

Low voltage LVD 73/23/EEC with further amendment. The Directive applies to electrical equipment designed for use with a voltage rating of between 50VAC and 1000VAC as well as 75VDC and 1500VDC.

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WEEE Directive 2002/96/EC

Information on Disposal for Users of Waste Electrical and Electronic Equipment

This appliance is marked according to the European Directive on Waste Electrical and Electronic Equipment (2002/96/EC) and further amendments. By ensuring this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The symbol on the product, or the documents accompanying the product, indicates that this appliance may not be treated as household waste. It shall be handed over to the applicable collection point for the waste electrical and electronic equipment for recycling purpose. For more information about recycling of this product, please contact your local authorities, your household waste disposal service or the shop where you purchased the product.

RoHS Directive 2002/95/EC

Concerning for human health protection and friendly environment, we assure that our products falling under RoHS Directive regulations, regarding the restriction of the use of hazardous substances in electrical and electronic equipment, were designed and manufactured in compliance with mentioned regulation. Simultaneously, we claim that our products were tested and do not contain hazardous substances exceeding limits which could have negative impact on human health or natural environment.

Information

Any changes or modifications not expressly approved by the Manufacturer can void the user's authority to operate the equipment.

The device, as a part of professional CCTV system used for surveillance and control, is not designed for self installation in households by individuals without technical knowledge.

The manufacturer is not responsible for defects and damages resulted from improper or inconsistent with user's manual installation of the device in the system.

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GENERAL / MAINTENANCE

GENERAL

1. Read, keep, and follow these instructions.
2. Heed all warnings.
3. There are no user-serviceable parts inside this unit. Only authorized service personnel may open the unit.
4. Installation and servicing should only be done by qualified service personnel and conform to all local codes.
5. **WARNING:** To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture if this unit is designed for indoor use only.
6. Unplug the unit from the outlet and refer servicing to qualified service personnel under the following conditions:
   - When the power supply cord or plug is damaged
   - If liquid has been spilled or objects have fallen onto the unit.
   - If the unit has been exposed to rain or water.
   - If the unit does not operate normally by following the operating instructions.
   - If the unit has been dropped or the cabinet has been damaged.
   - When the unit exhibits a distinct change in performance this indicates a need for service.
7. Cleaning precautions. Unplug the unit from the power outlet before cleaning. Do not use liquid cleaners, especially all sorts of solvents and petrol. For cleaning use aerosol lenses/optical cleaners or damp cloth only.
8. This unit is designed for indoor use only and it must not be installed where exposed to rain or moisture. For outdoor installation use this lens with appropriate housing.
9. If lens is installed outdoors, do not mount lens in direct contact with the housing heater. Install in accordance with the manufacturer's instructions.
10. Do not install near any heat source or near water (any wet area).
11. Only use attachments/accessories specified by the manufacturer.

WARNING: Do not use the lens to look at the sun. It may cause loss of sight. Do not direct the lens into the sun. It may cause a fire.

MAINTENANCE

1. Do not attempt to touch the lens iris by hand. The human grosss will leave stains on the iris. In result the flare caused by grosss will decrease the overall quality outcome of displayed images.
2. Dirty lens surface due to "dust", "oil" or finger print causes harmful flare which results in degeneration of lens features in addition the dirt on the lens may gather molds or scorch on the lens. If lens is found to be dirty clean the lens as instructed below.
3. To remove dust from the lens - brush "trash" or "dust" off with an oil-free soft brush or a blower-brush.
4. To remove oil from the lens - wipe water drops or oil off the lens with a clean soft cloth and then dry the lens surface. Then prepare oil-free and washed-out cotton cloth or lens cleaning paper with either alcohol or lens cleaning liquid. Wipe the rest of the dirt off gently with cloth or paper by moving spirally from the lens center towards its rim. Repeat wiping with another wet cloth or paper until the lens becomes completely clean.

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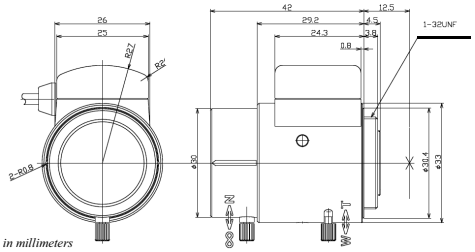
TECHNICAL SPECIFICATION



The values are given in millimeters

INSTALATIONS

WARNING: Entire installation process of Auto Iris Varifocal lens, should be carried out by (or proceed under supervision of) qualified service personnel or authorized security systems installers. Installation process must comply with obliging norms/regulations.

WARNING: Before connecting lens to the camera you must be absolutely certain that the power voltage is disconnected.

1. Mount the lens onto camera by turning it **gently** clockwise, stop when you will fill light resistance (use conversion ring if necessary). At this point you should be able to rotate the lens freely counter clockwise in about 300°, without screwing it of. If you continue to turn the lens clockwise after it is fully screwed on, you might damage the lens and/or the camera.
2. While the mount is rotating freely, turn the lens in the desired direction and adjust the lens attitude.
3. Connect the lens cable to the lens connector.
4. Proceed with adjusting image sharpness as described below.

Direct control (DC) connections table.

Iris Operation	Color	Function	Resistance
DC Type	1 - Brown	Brake Coil –	700 Ohm
	2 - Red	Brake Coil +	
	3 - Orange	Drive Coil –	200 Ohm
	4 - Yellow	Drive Coil +	

Drive voltage level :
Iris opening - less than 3,5 V
Iris closing - over than 0.5 V

STANDARD ACESSORIES

1.	Lenses	*1
2.	Front lenses cap	*1
3.	Rear lenses cap	*1
4.	Instruction manual	*1

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