

The device, as a part of professional CCTV system used for surveillance and control, is not designed for 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.

Information

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

Information concerning for human health protection and friendly environment, we assure that our products falling under RoHS Directive 2002/95/EC. 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 on Disposal for Users of Waste Electrical and Electronic Equipment (WEEE Directive 2002/96/EC): 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.



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

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.

IMPORTANT SAFEGUARDS

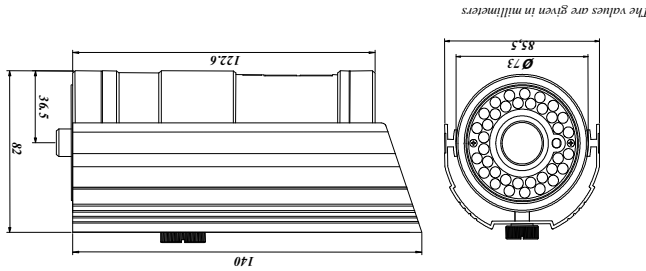
user's manual NVC-HDN320H/IR



- High resolution day / night bullet camera with IR illuminator
- External Zoom / Focus adjustment
- Mechanical IR cut filter
- Horizontal resolution:
 - 540 TVL (Color Mode)
 - 600 TVL (B / W Mode)
- Min. Illumination: 0 lx (IR On)
- Varifocal AI lens $f = 3.8 \sim 9.5 \text{ mm} / F=1.2$
- Incorporated IR Illuminator - 36 LED diodes
- Degree of protection IP66
- Mounting bracket and sunshield included

Model	NVC-HDN320H/IR
Pick-up Element	1/3" Sony Super HAD color CCD (HQ1 DSP)
Resolution	540 TVL (Color), 600 TVL (B / W)
Min. Illumination	0 lx (IR LED On)
S/N Ratio	> 48 dB (AGC Off)
Electronic Shutter	1/50 s
Auto Gain Control (AGC)	On
White Balance	Auto
Video Output	BNC, 1.0 V _{pp} , 75 Ohm
Lens Type	Varifocal DC, Auto Iris, $f = 3.8 \sim 9.5 \text{ mm} / F=1.2$
Angle of View (H)	66° ~ 28,6°
IR Illuminator	LED - 36 pieces
IR Effective Range	30 m
Degree of Protection	IP66
Power Supply	12 VDC
Power Consumption	2,2 W (IR Off), 6 W (IR On)
Dimensions (mm)	73 (Ø) x 122 (L)
Operating Temperature	-10° C ~ 50° C
Weight	1300 g

NOVUS®



The values are given in millimeters

Notice: Data included in the following user's manual is up to date at the time of printing. Novus Security Sp. z o.o. holds exclusive rights to modify this manual. The producer reserves the rights for device specification modification and change in the design without prior notice.

1. Installation and servicing should only be done by qualified service personnel and conform to all local codes
2. Do not use this unit if any of electrical or environmental condition is not fulfilled.
3. Unplug the unit from the outlet and refer servicing to qualified service personnel in case of water intrusion into camera interior.
4. Camera should be installed away from electromagnetic field sources like TV sets, electric motors, transformers. Electromagnetic fields may cause picture distortions.
5. Do not ever touch the surface of the CCD. If necessary clean the case of the camera by means moist cloth. Do not use any chemical cleaners.
6. Lead the cables properly to avoid risk of mechanical damaging in the future. Make sure all connections are made properly. Do not overload power sockets. It may cause the fire.
7. In order to prevent damaging of the camera video outputs should be protected by appropriate surge protection devices. Ground loop isolators are also recommended.
8. Connect video output (by means coaxial cable) with proper inputs of devices like monitors, DVRs etc. Connecting with improper connector e.g. other video output may cause damage of the camera.

IMPORTANT SAFEGUARDS

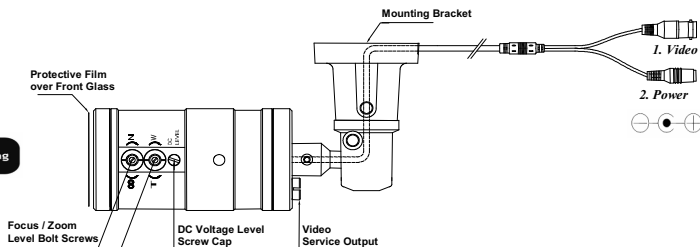
WARNING! THERE ARE NO USER-SERVICEABLE PARTS INSIDE THIS UNIT. ONLY AUTHORIZED PERSONNEL MAY SERVICE THIS UNIT.



WARNING! READ KEEP, AND FOLLOW THESE INSTRUCTIONS. ALL THE SAFETY AND OPERATING INSTRUCTIONS SHOULD BE READ BEFORE THE PRODUCT IS OPERATED.

GENERAL / MAINTENANCE

INSTALLATIONS



ZOOM / FOCUS ADJUSTMENT

1. Remove protective film before operating the camera.
2. Adjust the viewing angle with "Zoom Screw" between "W" (Wide) and "T" (Tele).
3. Adjust the "Focus Screw" between "N" (Near) or "∞" (Far) until the sharpest focus is achieved.
4. If it is necessary adjust the DC voltage level with "DC Level Screw".
5. Use Video Service Output to check the picture.

ELECTRICAL CONNECTIONS

1. Video Output Connector (VIDEO OUT)
This connector is used to connect the camera with the VIDEO IN connector of the video monitor.
2. Power supply input terminal 12V DC
This input terminal is used to connect the camera with 12V DC regulated power supply.

INSTALLATION

1. Connect video output of the camera (VIDEO) - connector # 1 - to a appropriate monitor video input (VIDEO IN) using standard 75 Ohm coaxial cable.
2. Connect the power connector of the camera to a 12V DC regulated power supply.
Make sure that power supply has proper voltage and polarization ("+" in a centre of the connector)

Warning: Improper power supply or polarization may damage the camera. Such damage is not a subject of warranty.

STANDARD ACCESSORIES

- | | | |
|----|--------------------|----|
| 1. | Camera | *1 |
| 2. | Mounting bracket | *1 |
| 3. | Sunshield | *1 |
| 4. | Mounting screws | *3 |
| 5. | Instruction manual | *1 |