

user manual
instrukcja obsługi



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NVC-235C
NVC-255C

NOVUS™

user manual



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1. Cautions on handling and installations

1. Be careful, never let any water in this equipment.
2. Please do not directly touch the CCD element. If necessary, use soft cloth moistened with alcohol to wipe off the dust.
3. When any abnormal occur make sure to unplug the unit and contact your local dealer.
4. Please be extra careful not to shake the Camera.
5. Please avoid places where there is direct sunlight.
6. When using this Camera in places where the lighting differs, greatly, please use the Auto Iris Lens with ND Filter.
7. Please avoid places where temperatures exceed 50°C or more, high humidity or where direct rain drops hit.
8. Please avoid places where frequent vibrations or shocks.
9. When the Camera is not used, keep the Lens or the Lens cap attached to protect the CCD Sensor.

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2. Description

This COLOUR Camera use SONY high sensitive Super HAD 1/3" interline transfer CCD image Sensor (CCD = Charge Coupled Device), and employs Digital Signal Processor (DSP) chip-set for image control, and all integrated state circuitry which provide extremely long life and high reliability. Easy to install, this Camera is a very good choice for your COLOUR CCTV system.

3. Main features

- Color camera with SONY 1/3" Super HAD CCD sensor in metal case.
- Employs Digital Signal Processor (DSP) chip-set for image control.
- Pixel number: NTSC=270K/PAL=320K for normal resolution models.
- High sensitivity, low smear, high anti-blooming, and high S/N ratio.
- Powerful functions: Auto Electronic Shutter (AES), Auto Iris (AI), Auto Gain Control (AGC), Auto White Balance (AWB), Back Light Compensation (BLC).
- Supports Auto Iris Lens: both Video-Drive & DC-Drive lens.
- Supports both C and CS mount lens.
- Built-in anti-aliasing and IR-cut optical filter.
- Optional Audio function ("S" model).

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4. Specifications

Model No.	NVC-235C	NVC-255C
Image Pick-up Device	SONY 1/3" CCD	
Effective Picture Elements (H*V)	PAL: 500x582	
Horizontal Resolution	380 TV lines	
Minimum Illumination	0,1 LUX @ F1,2	
S/N Ratio	More than 48dB	
Auto Iris Control	Video Drive / DC-DRIVE	
Auto Electronic Shutter	PAL: 1/50s~1/100 000s ON/OFF switch-able	
Gamma Characteristic	0,45	
Lens Mount	C or CS mountable	
Auto Gain Control	Yes	
Auto White Balance	Yes	
Back Light Compensation	ON/OFF switch-able	
Video Output	1Vp-p / 75 Ω, BNC connector	
Audio Output	2Vp-p / 50 Ω, RCA connector	
Power Supply	12V DC / 24V AC	230V AC
Power Consumption	3,2 W	
Operating Temp	-10°C do 50°C	
Weight	400g	

Note: Design and specifications are subject to change without prior notice.

5. Names of each part

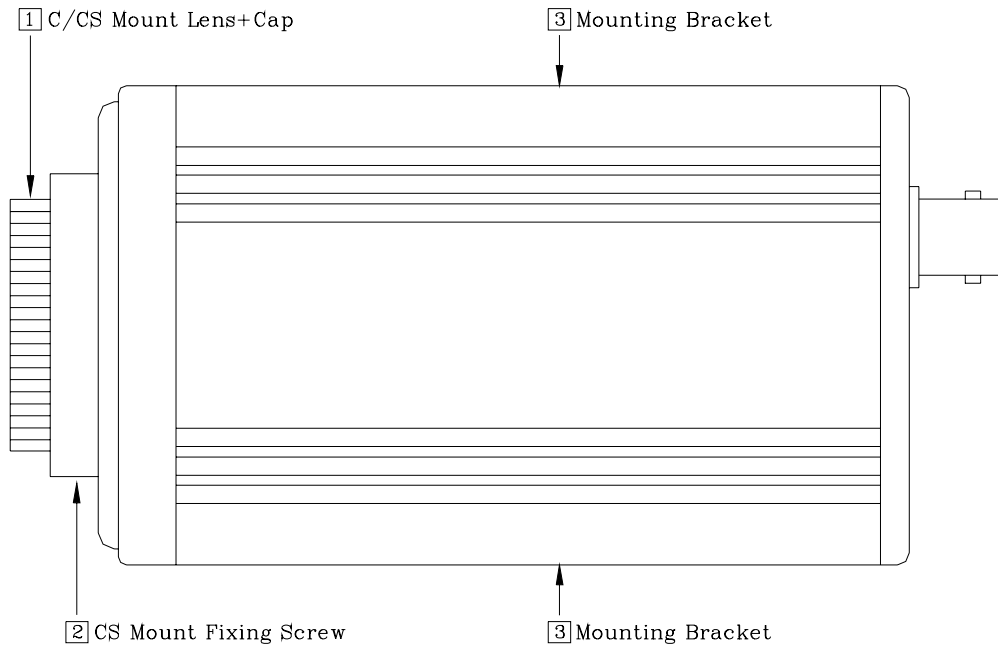


Fig.1 Side View

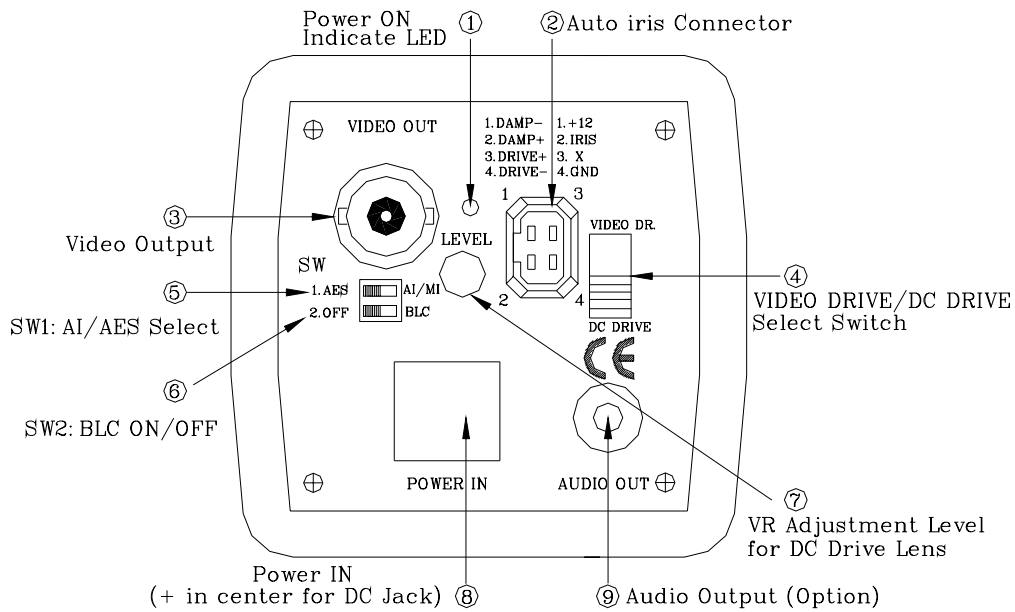


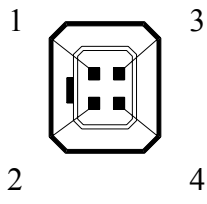
Fig.2 Rear Panel

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6. How to operate

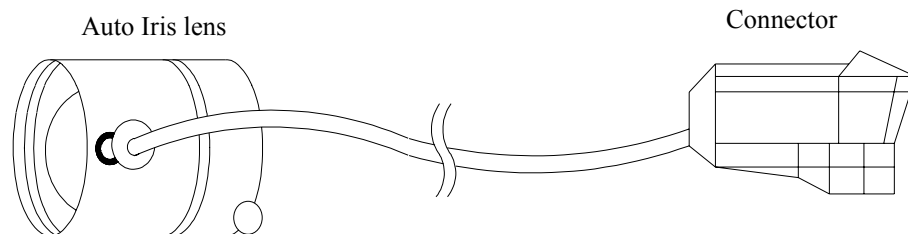
1. Remove the cap cover from the top of the Lens Mount.
2. If CS Mount Lens is used, remove the C Mount ring.
3. Screw the Lens into the Lens Mount.
4. Connect the Video Output to the monitor or other video device through a 75 Ohms type coaxial cable.
5. Connect the power source, AC with the Power cord, or DC by using the DC Jack (+12V DC in jack center), then the Indicate-LED will have lit.
6. Once the picture appears on the monitor, adjust the focus and iris of the Lens to obtain the best picture.
7. If the subject is not in correct focus when adjusting focus of the Lens, do back focus adjustment as following:
 - I –Set the Focus ring of the Lens to indefinite position.
 - II –Take picture of subject at a distance more than 20m away.
 - III –Loosen the Mount Lens fixing screw (use L wrench).
 - IV –Turn the Lens and the Mount Lens together so the subject is in the focus and the picture is clear.
 - V –Screw the Mount Lens Fixing Screw [2].
8. Mount the Camera on the Mounting Bracket by using the hole [3] on top or bottom of the camera or using the enclosed 8 mm Mounting bloc with the 2 screws furnished.
9. AUTO IRIS FUNCTION
When using an Auto Iris Lens, the Switch [1] should be in position AI to disable AES function. Before plug the enclosed miniature 4 pins to Auto Iris Connector, please check the type of Auto Iris Lens, and also the compatibility on the polarities.
If the Auto Iris Lens is DC DRIVE (or DIRECT DRIVE), the Switch should be in position DC DRIVE. Adjust the LEVEL with the VR to proper level.
If the Auto Iris Lens is VIDEO DRIVE, the Switch should be in position VIDEO DR.
When using Manual Iris Lens, the Switch [1] is select-able depend on application environment.
10. BLC FUNCTION
Set Switch-[2] to BLC to enable Back Light Compensation (BLC) function.

7. Auto Iris control connector



PIN	VIDEO DRIVER	DC DRIVER Pin (DIRECT DRIVE)
1	VDC OUT	DAMP-
2	IRIS OUT	DAMP+
3	N.C.	DRIVE+
4	GND	DRIVE-

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8. Packing

- 1 camera
- 1 C Mount ring
- 2 screws
- 1 L Wrench
- 1 Connector 4 Pins for Auto Iris Lens
- 1 Instruction Manual

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