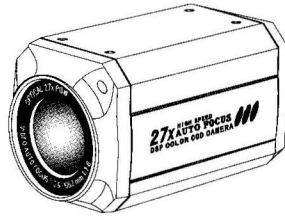


DSP varifocal intergrated color CCD camera user manual



DIGITAL ZOOM CAMERA

Warning

WARNING: TO prevent fire or shock hazard, do not expose to unit to rain or moisture.



The symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance



The symbol is intended to alert the user to the presence of uninsulated (dangerous voltage) within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons

1

Warning

CAUTION:
TO PREVENT ELECTRIC SHOCKS
AND RISK OF FIRE HAZARDS, DO
NOT USE OTHER UNSPECIFIED
POWER SOURCE

Warning: This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference in which case the user will be required to correct the interference as his own expense.

Caution: Any changes or modification in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

2

Auto camera specification cautions

1. Do not attempt to disassemble the camera. In order to prevent electric shock, do not remove screws or cover. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
2. Handle the camera with care. The camera could be damaged by improper handling or storage.
3. Do not expose the camera to rain or moisture, or try to operate it in wet areas. Take immediate action if the camera becomes wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the camera and also create a danger of electric shock.
4. Do not use strong or abrasive detergents when cleaning the camera body. Use a dry cloth clean the camera when dirty. In case the dirt is hard to remove, use a mild detergent and wipe gently.
5. Never point the camera toward the sun, whether the camera is used outdoors or not, never point it toward the sun. Use caution when operating the camera in the vicinity of spot lights or other bright reflecting objects.
6. Do not operate the camera beyond its Temperature, humidity or power source ratings. Do not use the camera in an extreme environment where high temperature or high humidity exists. Use the camera under conditions where temperatures are between $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$, and humidity is below 85%. For the correct power supply, refer to the specification sheet.

3

Technical parameter (I)

Model	22/27 (D/N)
System of signal	NTSC/PAL
Pickup device	1/4" SONY CCD
Horizontal resolution	420/480TV line
S/N ratio	50dB
Minimum illumination	0.1/0.5 Lux
Lens	3.9~85.5mm/3.9~105.3mm
View angle	$49.6^{\circ} \sim 2.5^{\circ}$
Electronic Shutter	1/60 to 1/10000S (NTSC)、1/50 to 1/10000S (PAL)
White Balance	Auto trackig

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Technical parameter (II)

Auto AGC control	Auto control
Backlight compensation	ON/OFF
Control connector	Bus control DC $\pm 3\text{V} \sim \pm 12\text{V}$
Focus Mode	Bus control focus/Button control focus
Video output	1.0V _{p-p} , 75 Ω
Power supply	DC $12\text{V} \pm 10\%$, 3.6W
Weight	335 g
Dimension	60×60.4×103mm

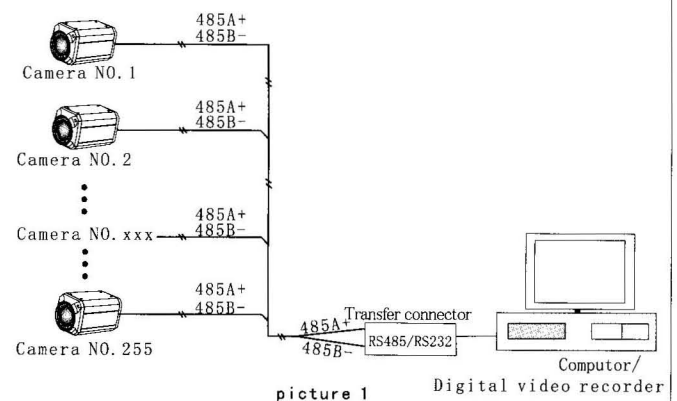
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Familial break down expels

Index	Break doen	Expel method	Expel the
1	No picture	The power supply Did not mount	Mount the power supply
		The power supply is bad	Replace the power supply
2	No picture	Line did not mount	Connect the line
3	The key has no effect	Switch on electricity first to conect again the line	Break to open the power supply, switch on electricity

6

RS485Bus controlling connection instruction



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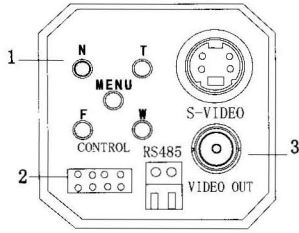
The behind plank explain(1)

1 Button

- T picture enlarge/menu option
- W Picture reduce/menu option
- N zoom adjust+/menu option
- F zoom adjust-/menu option
- M menu display/close/enter

2 Power, cable control input

- 12V (+)---- (RED)
- GND (-)---- (BLACK)
- FOCUS---- (YELLOW)
- GND---- (BLUE)
- COM---- (WHITE)
- ZOOM---- (ORANGE)
- MEMU---- (GREEN)



3 Video output (BNC)

NOTICE:With actual machine model tail plank to should

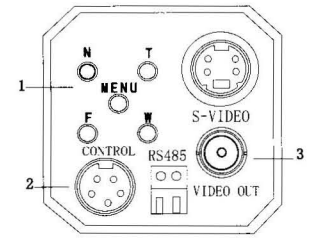
The behind plank explain(2)

1 Button

- T picture enlarge/menu option
- W Picture reduce/menu option
- N zoom adjust+/menu option
- F zoom adjust-/menu option
- M menu display/close/enter

2 Adopter, cable control input

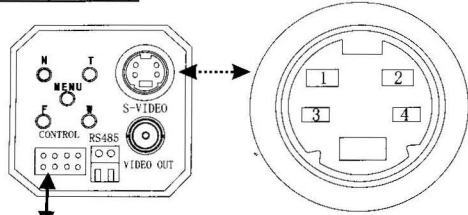
- 12V--- "+" (RED)
- GND--- "-" (BLACK)
- F---FOCUS (YELLOW)
- C---COM (GREEN)
- Z---ZOOM (WHITE)



3 Video output (BNC)

NOTICE:With actual machine model tail plank to should

The behind plank explain(3)



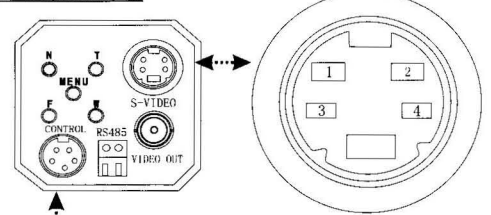
- 1.POWER+(+12V)
- 2.MENU
- 3.ZOOM
- 4.NC
- 5.GND
- 6.COM
- 7.FOCUS
- 8.POWER-(GND)

- 1.VIDEO
- 2.VIDEO
- 3.GND
- 4.GND
- 5.GND

NOTICE:With actual machine model tail plank to should

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The behind plank explain(4)



- 1.POWER+(+12V)
- 2.POWER-(GND)
- 3.ZOOM
- 4.FOCUS
- 5.COM

- 1.MENU
- 2.VIDEO
- 4.GND
- 5.GND

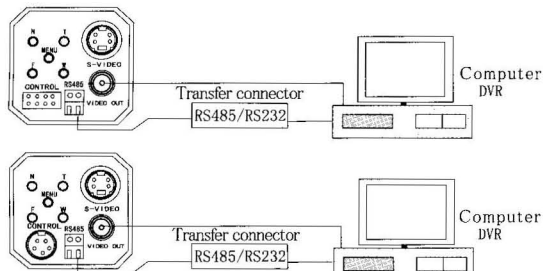
NOTICE:With actual machine model tail plank to should

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The RS485 conjunction explain

Built in 485 interface, use the PELCO-D Software to connect with PC , which can make the zoom out and zoom in by PC. Make one of the cable connect with RS485-A+ of the 485/232 intertransferand the other one to RS485-B-

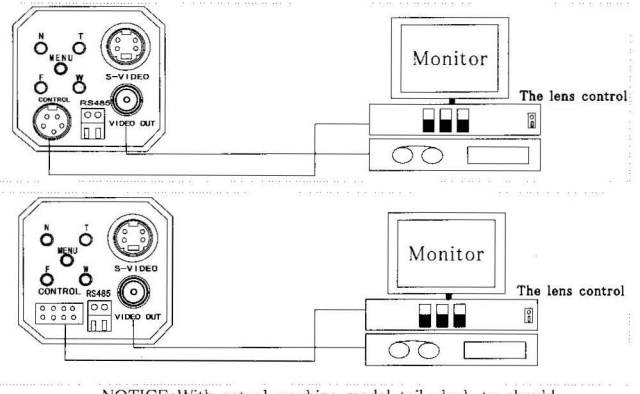
Sketch map:



NOTICE:With actual machine model tail plank to should

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The line controls the conjunction elucidation



NOTICE:With actual machine model tail plank to should

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Menu operation instruction

FOCUS:AT/MT
 RANGE:NORM/NEAR
 LOCK :NO/YES
 485ID:000~255
 CONTROL:NORM/INV
 RATE :2400/9600
 RESET:NO/YES

Basic process:

- 1 Press "Menu" button to open/close the menu. Enter the menu, N/F to choose the menu up/down, press T/W to choose the function of the menu. The original focus mode for the camera is MF. Enter the automatic focus mode, exit pressing N/F, , and comeback pressing T/W. Enter the menu to choose the "reset", it can be the original mode.
- 2 RANGE: To choose "NORN" when the project isfar. To choose "NEAR" when the project is near.
- 3 LOCK: Zoom, focus, the controll function don't work when setting "YES"
- 4 ID: 000-255 camera code identification, when muti cameras use the 485 Bus controlling the same time, you should set the right ID Code the original Code should be 001.

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Menu operation instruction

- 5 CONTROL: 485 controlling method, "NORM" means front control, "INV" means reverse control. This can only be used for the direction choosing of the 485 Bus method
- 6 RATE:Rs485 Bus rate choose.
- 7 RESET: Back to the original setting.

【NOTICE】 Camera under the following condition won't the ability focuse automatically to the target shoot.

- ①The target isn't in the appearance center.
- ②The target is too dark or oneself faintness.
- ③The target moves too quickly.
- ④The target isn't obvious, such as rain fog weather, dust heavy environment.
- ⑤Observe the distant place and the neighboring district target in the meantime.
- ⑥The target is the strong light object, such as the strong light light, spotlight etc. give out light object.

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