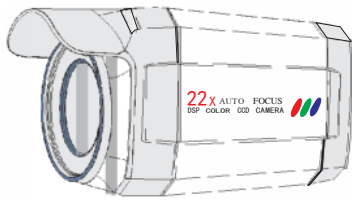


ABOX4520-27

DSP varifocal intergrated color CCD camera user manual



DIGITAL ZOOM CAMERA



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.

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Auto camera specifications caution

- 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.
- Handle the camera with care. The camera could be damaged by improper handling or storage.
- 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.
- 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.
- 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.
- 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.

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Technical parameter(I)

Model	ABOX4520-27
System of	PAL
Pickup device	1/4" SONY CCD
Horizontal	520TV line
S/N ratio	50dB
Minimum illumination	0.1Lux
Lens	3.9~89.9mm/3.9~105.3mm
View angle	$49.6^{\circ} \sim 2.5^{\circ}$
Electronic Shutter	Auto /Manual (Set by user)
White Balance	White balance auto tracking (Set by user)

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Technical parameter(II)

Auto AGC control	Auto control (set by user)
Backlight compensation	Open/close option (set by user)
The line control	$\text{DC} \pm 3\text{V} \sim \pm 12\text{V}$
Focus Mode	Bus control focus /button control focus
Bus control	Pelco-D/2400/9600
Video output	1.0Vp-p, 75 Ω
Power supply	$\text{DC} 12\text{V} \pm 10\%$, 3.6W
Weight	285 g
Dimension	$62 \times 63 \times 127\text{mm}$

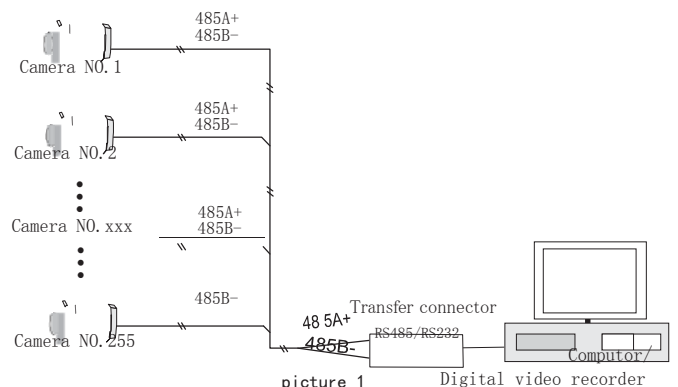
5

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 open the power	Connect to
3	The key has no effect	Switch on electricity first to conect again the line	Break to open the power supply, switch on electricity
4	Snow flakes	AGC too much	AGC turn down

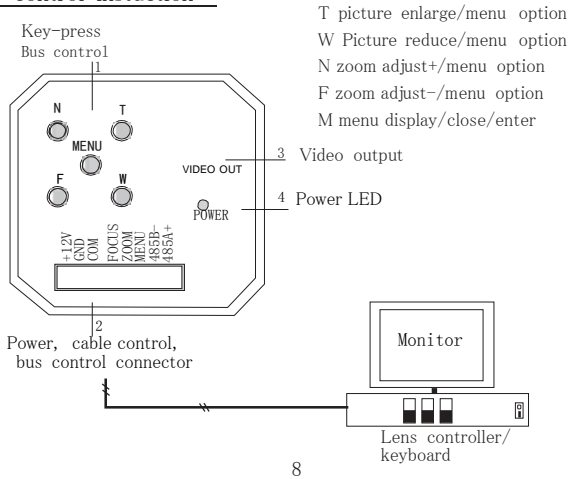
6

RS485Bus controlling connection instuction



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Bus control instruction



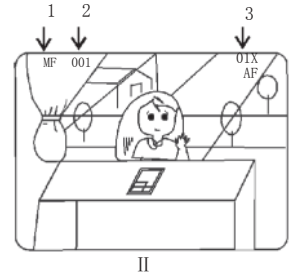
T picture enlarge/menu option
W Picture reduce/menu option
N zoom adjust+/menu option
F zoom adjust-/menu option
M menu display/close/enter

Menu operation instruction

Push MENU enter to main menu, push N, F up and down chose menu, push MENU enter to submenu, push T, W set the parameter.

485bus control menu setting
Aperture+/Aperture- display/Menu closed/Confirm
Zoom+/Zoom- up and down choose the menu
focus+/Focus- parameter setting

1. Present camera focus pattern
2. Present camera 485ID code
3. Present camera zoom times



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Menu operation instruction

● Main Menu

MENU	
1. CONTROL	
2. DSP SETUP	
3. RESET	
4. EXIT	

1. CONTROL Control parameter
2. DSP SETUP Photo parameter
3. RESET Factory leave reconvert
4. EXIT Exit

(Above parameter can be set by bus control, 485ID can only be set by camer button.)

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Menu operation instruction

● 1. CONTROL parameter setting

- 1.1 FOCUS model ch o sen, MT/Manual, AT/Auto
- 1.2 RANGE autofocus distance, Choose Norm when far, so can fo quickly, Choose NEAR when near(<5m),so can do quickly.
- 1.3 LOCK button locked, NO/close, YES/ button locked (if the fuction can not work, please check the setting is right or not.
- 1.4 485ID camera ID, when one485 bus contrl the several cameras the same time, need to set the controller ID the same as the camera ID.
- 1.5 485DIR bus control pattern , NORM frontal , INV inverse
- 1.6 RATE Baud rate, bus control speed rate, should set the same as the controller
- 1.7 ID DISP camera ID display , NO close/YES open , when set for YES, the present camera ID will be showed on the upper left corner of the screen
- 1.8 EXIT exit the present menu setting, back to the upper menu

CONTROL	
1. FOCUS	MT/AT
2. RANGE	NORM/NEAR
3. LOCK	NO/YES
4. 485ID	001 ~255
5. 485DIR	NORM/INV
6. RATE	2400/9600
7. IDDISP	NO/YES
8. EXIT	

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Menu operation instruction

● 2. DSP SETUP

Picture parameter setting

- 2.1 LENS lens pattern
MANUAL Manua
VIDEO Video servo
DC DC serco
- 2.2 SHUTTER electronic Shutter
AUTO (Set to Auto, push the button enter into the brightness adjustment)
→BRIGHTNESS 087
MANUAL →SHUTTER M. Electronic shutter
FIXED →1/50→1/120→1/250→1/500→1/2000→1/5000→1/10000 →1/100000
FLK flashing pattern
- 2.3 BLC ON/OFF BLC ON/OFF (set for ON, push the button enter into the BLC intension adjustment, can get to the best the result when the intension is biggest.)

DSP SETUP	
1. LENS	MANUAL
2. SHUTTER	AUTO
3. BLC	ON
4. AGC	ON
5. WHITE BAL	ATW
6. FUNCTION	
7. ADJUST	
8. EXIT	

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Menu operation instruction

- 2.4 AGC ON/OFF (Set for ON, push button enter into AGC set, make the night vision get to the best result)

2.5 WHITE BAL

- AWB Auto white balance
ATW White balance auto tracking
MANUAL push the button, enter into the aberration adjustment, so can get to individuation color
- ↓
RED 0~255 (113)
↓
BLUE 0~255 (255)
- FIXED White balance Mode
AWB FIXED : MODE 1
MODE 2
MODE 3
MODE 4
- RETURN back to the upper menu

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