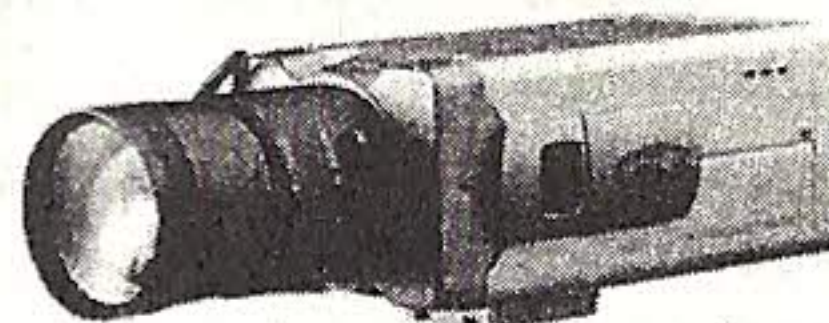
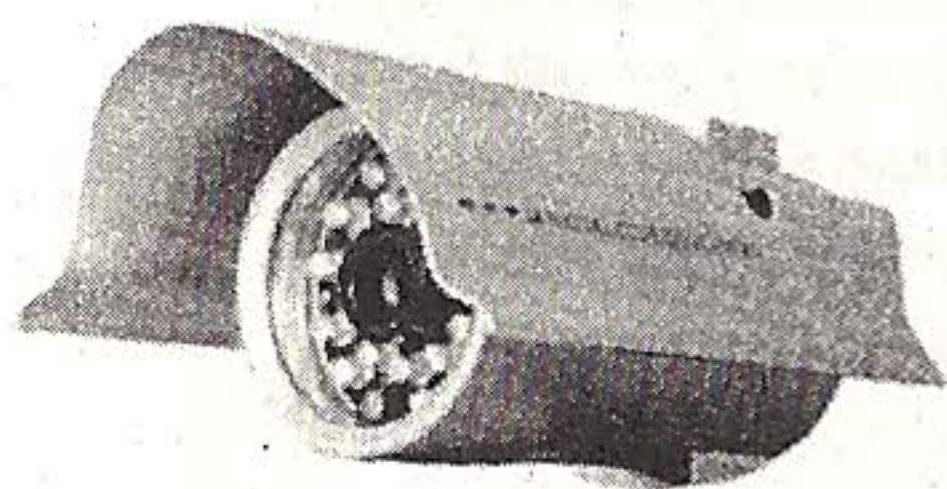
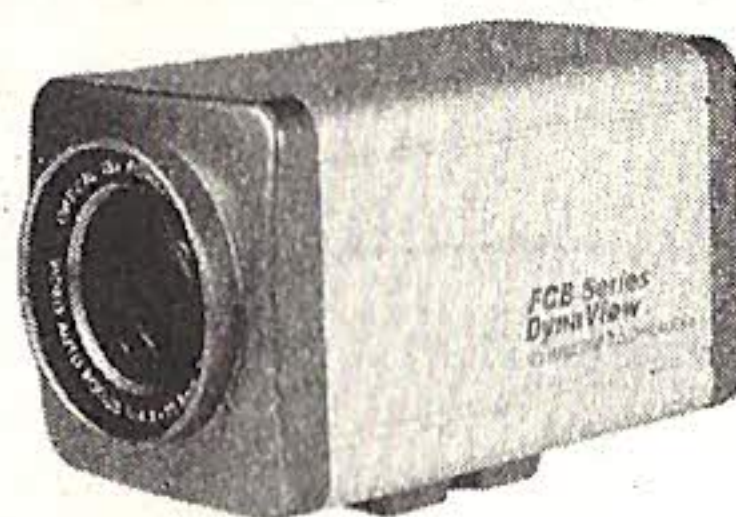
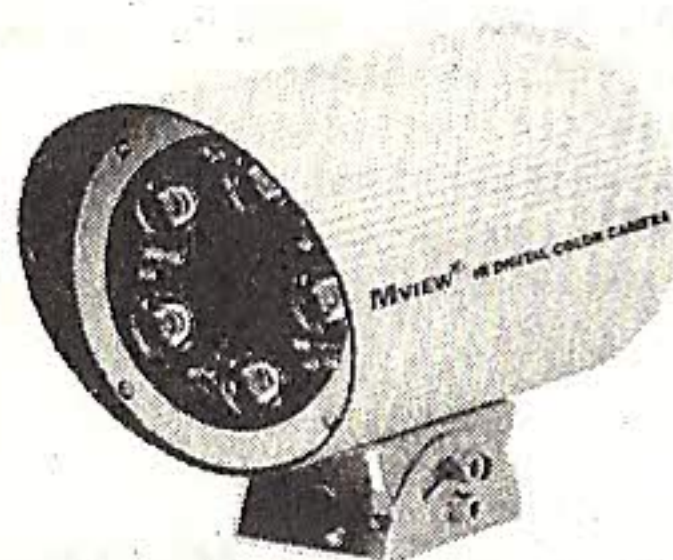


MANUAL

CCD CAMERA

INSTRUCTION



COLOR

B/W

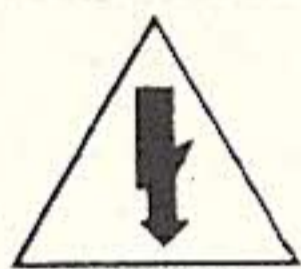
WARNING



SA1966

To prevent fire or shock hazard, do not expose the 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.



SA1965

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.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER OR BACK NO USER SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL		

CAUTION:

To prevent electric shocks and risk of fire hazards, do NOT use other than specified 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 to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

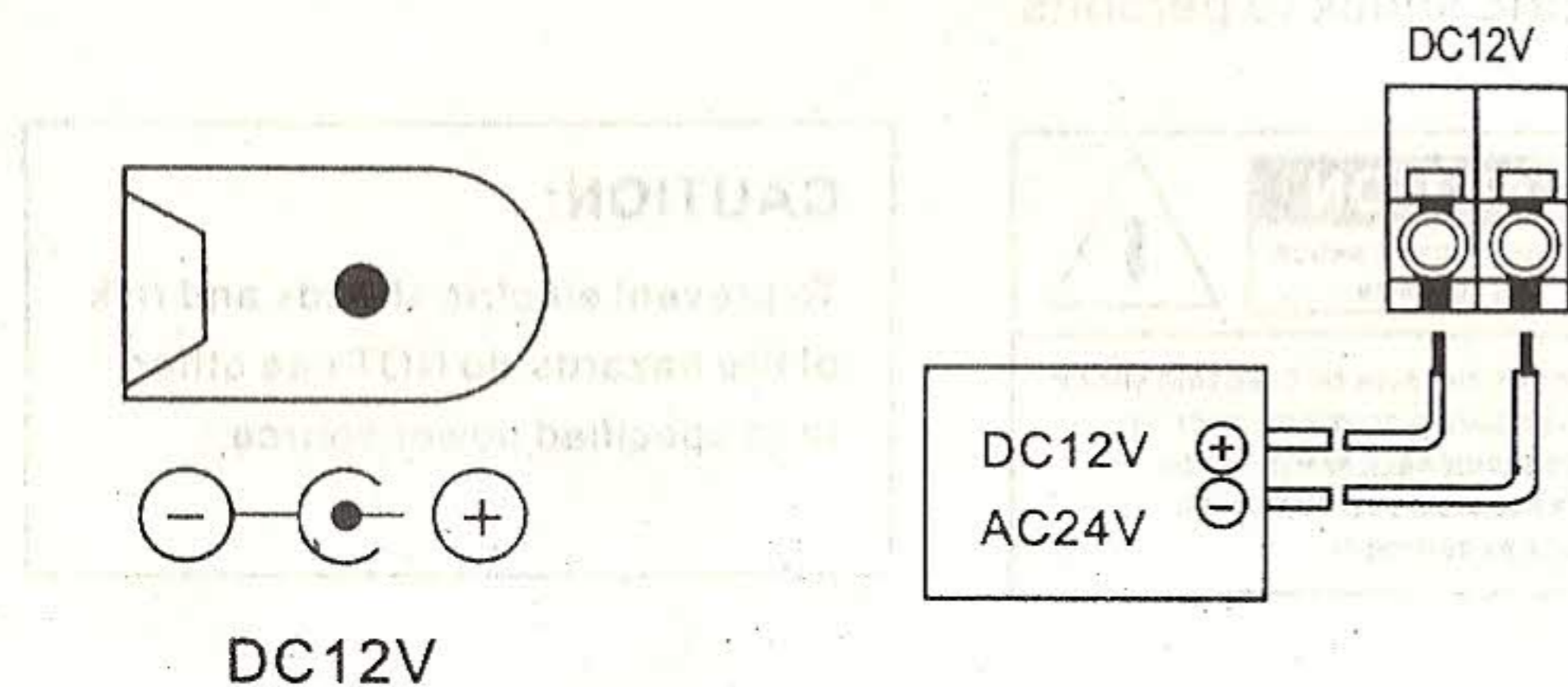
CAUTION Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

SYSTEM FUNCTION 1-2

1. VIDEO OUTPUT CONNECTOR(BNC)

1.0Vp-p75 composite video signal is provided at this connector.

2. POWER INPUT CONNECTOR(SCREW TERMINAL)



this terminal accepts DC 12V/AC 24V

Power source

Recommended Power Supply For

Color camera:750-800mA DC

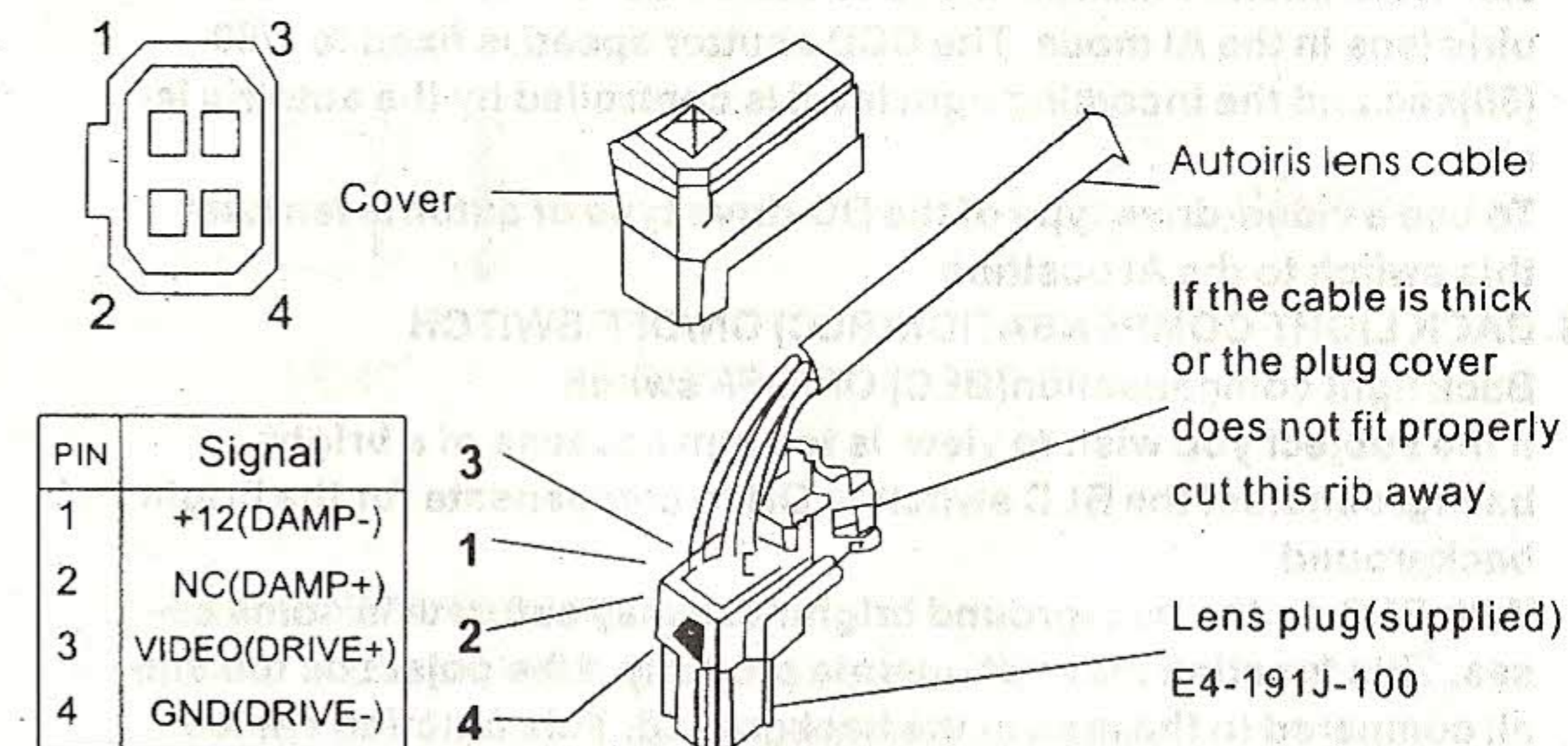
B/W camera:300-800mA DC

Regulated Power Supplies are recommendable

SYSTEM FUNCTION 3-4

3. Autoiris lens(LENS)DC/VIDEO Switch

4. AUTOIRIS LENS CONNECTOR(AUTO IRIS)



SYSTEM FUNCTION 5-6-7-8

- 5. AUTO TRACKING WHITE BALANCE(ATW)
- 6. AUTO GAIN CONTROL(AGC) ON/OFF SWITCH
- 7. EE/AI SWITCH

This switch is used to select EE (electronic exposure of ELC electronic light control) mode or AL (automatic lens of ALC automatic light control) mode.

In the EE mode, a continuously variable electronic shutter is employed to automatically control the exposure time of the CCD image sensor according to the incoming light level. With this mode selected, a fixed or manual iris lens can be used instead of an autoiris lens. In the AI mode, the CCD shutter speed is fixed to 1/60 (50) sec. and the incoming light level is controlled by the autoiris lens.

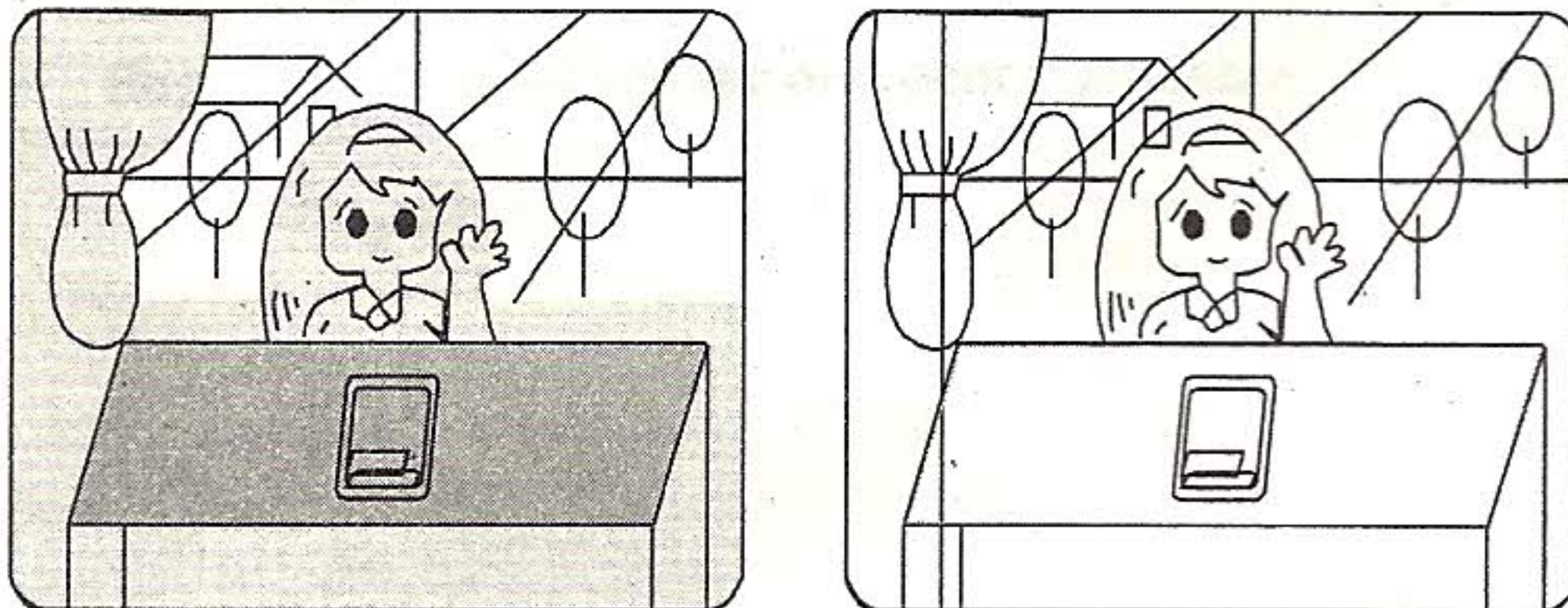
To use a video-drive type of the DC-drive type of autoiris lens, set this switch to the AI position.

- 8. BACK LIGHT COMPENSATION(BLC) ON/OFF SWITCH

Back light compensation(BLC) ON/OFF switch

If the subject you wish to view is too dim because of a bright background, set the BLC switch to ON to compensate for the bright background.

With BLC on, the background brightness may saturate in some cases. This function may not operate properly if the object is too small compared to the area of the background. This function can be used with either the linear shutter(EE mode) or an autoiris lens (All lens mode).



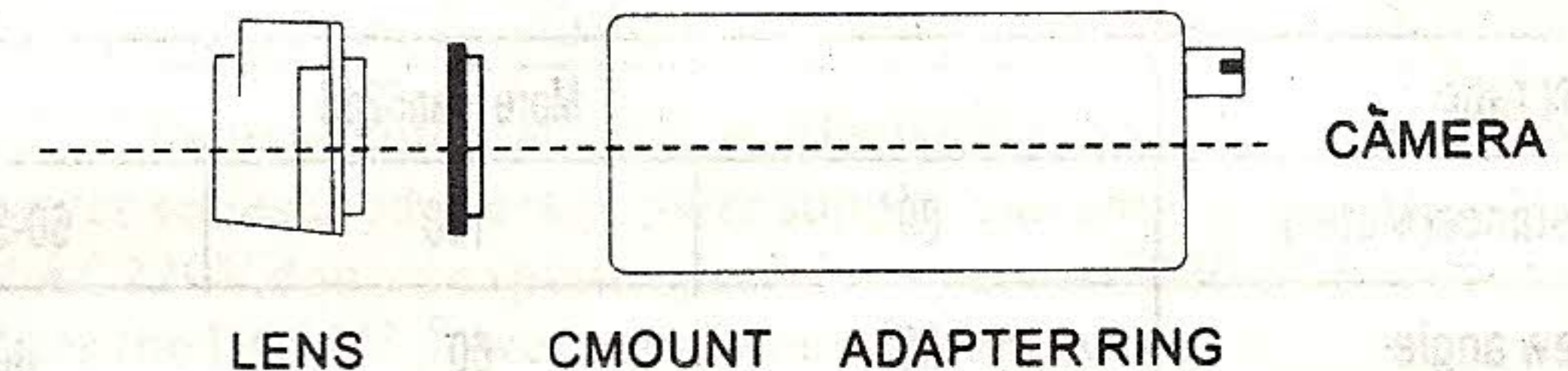
CONNECTORS AND CONTROLS 9-10-11

- 9. POWER INDICATOR LED

This LED Turns ON only when power is supplied properly and the DC-DC converter (or the regulator) inside the camera works well.

- 10. C-MOUNT ADAPTER RING

The C-mount adapter ring is used if a C-mount lens is used on the camera. If a CS-mount lens is used, the adapter is not necessary. To install the adapter, first screw it into the lens mount opening on the camera. Then screw the C-mount lens into the adapter.



- 11. CCD-DUST PROTECTIVE CAP

Remove this cap just before installing the lens.

Do not handle or leave the camera with this cap open.

1. If no oscilloscope is available, a less accurate adjustment can be made by observing the monitor and adjusting the V-phase potentiometer until no roll occurs on the monitor when switching back and forth between cameras A and B.

SPECIFICATIONS

SPECIFICATIONS

Model	22XAUTOFOCUS(100M)	16X22XMOVE FOCUS(100M)	16X22XMOVE FOCUS(60M)
Signal system	PAL/NTSC		
Image sensor	1/4" CCD	1/3" CCD	
Horizontal resolution	480TV Lines		
Lens	F=3.9~85.8	F=3.9~70	
Min.Illumination	OLUC(IRON)		
S/N ratio	More than52dB		
Distance(Meter)	80°	100°	60-80
View angle	80°	60°	80°
IRLED	154unit850nm		84unit850nm
Average life	20000hrs,warranty life:6000hrs		
Water resistance	IP65		
Video output	1.0Vp-p,75Ω		
Focus mode	push auto/manual	push manual	
OSD display	Function/Motion/Zoom MAG/USER Title		
Operation temperature	-20℃~50℃		-10℃~50℃
Supplied power	AC220V±20%		DC12V 5%±100mA

OPERATION:

一、SYV-75: VIDEO OUT

1.0Vp-p75 composite video signal is provided at this connector

二、AVVR6:

RED	BREAK	BPOWM	PUPPLE	ORANGE	GRAY
DC+12V	DC-12V(GND)	COM	ZOOM	FOCUS	IRIS

Remarks:Remarks:30 meter,25meter,20 meter,15 meter,10 meter, hemispheres series machines have no this electric cable.only video the line and power cables match topress the line.

1、POWER

NO.	COLOR	RUCTION	I/O	NOTE
1	RED	POWER(+)	INPUT	DC+12V
2	BREAK	POWER (-.GND)	INPUT	DC-12V

The 22X focuses automatically,an electricity moves to focuse(100M), 80 meter series model usage pwer supply, can choose the DC12V,AC 24V,AC220V,don' t explain specially all for AC220V,The rest model all uses the DC12V power supply power supply

The power supply power please read the technique parameter form

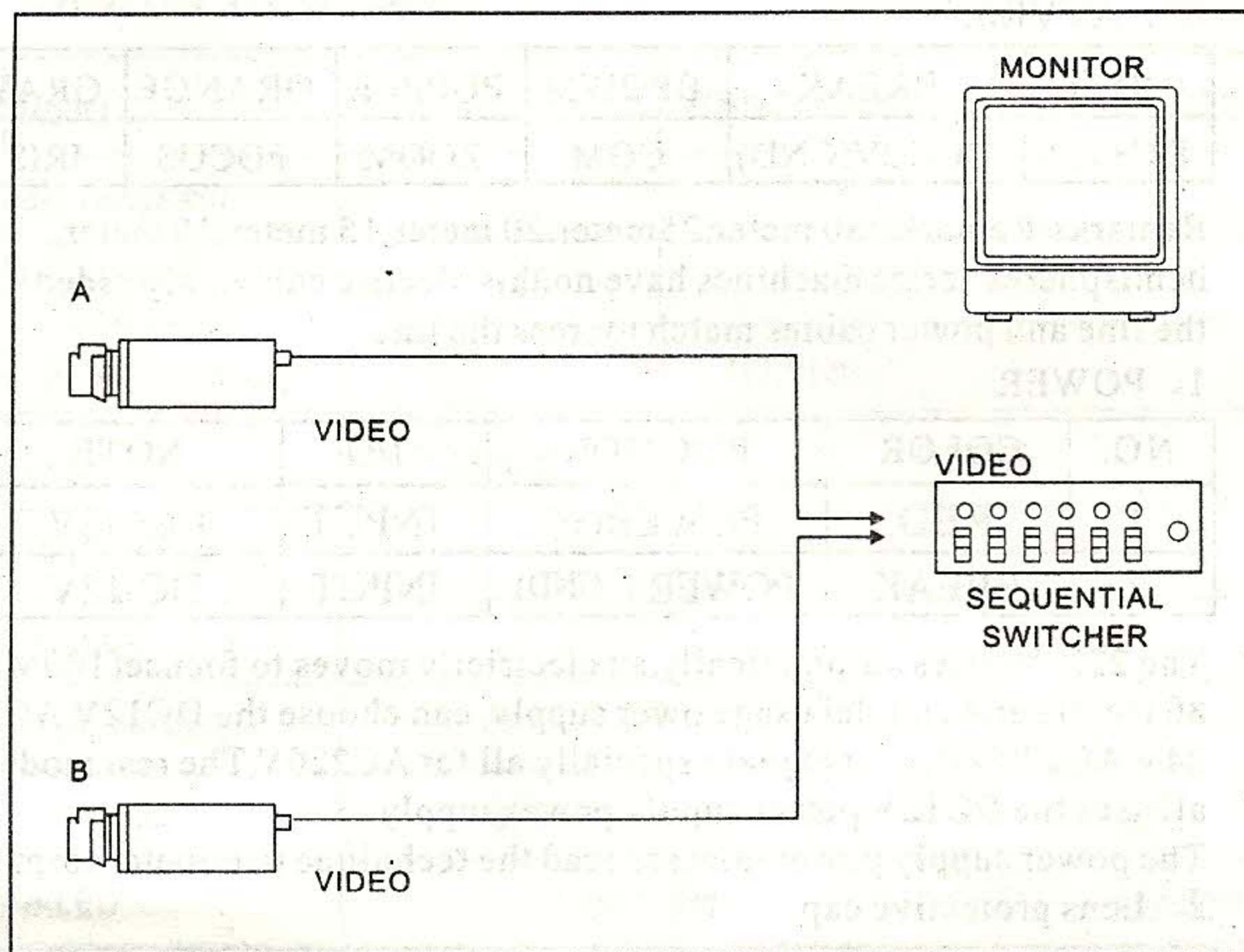
2、Lens protective cap

NO.	COLOR	FUCTION	I/O	NOTE
1	ORANGE	FOCUS(+NEAR,-FAR)	INPUT	±9V(±3V±12V)
2	PUPPLE	ZOOM(+TELE,-WIDE)	INPUT	±9V(±3V±12V)
3	GRAY	IRIS(-ON,-OFF)/MENU	INPUT	±9V(±3V±12V)
4	BROWM	COM(FORZOOM,FOCRS,IRIS)	INPUT	±9V(±3V±12V)

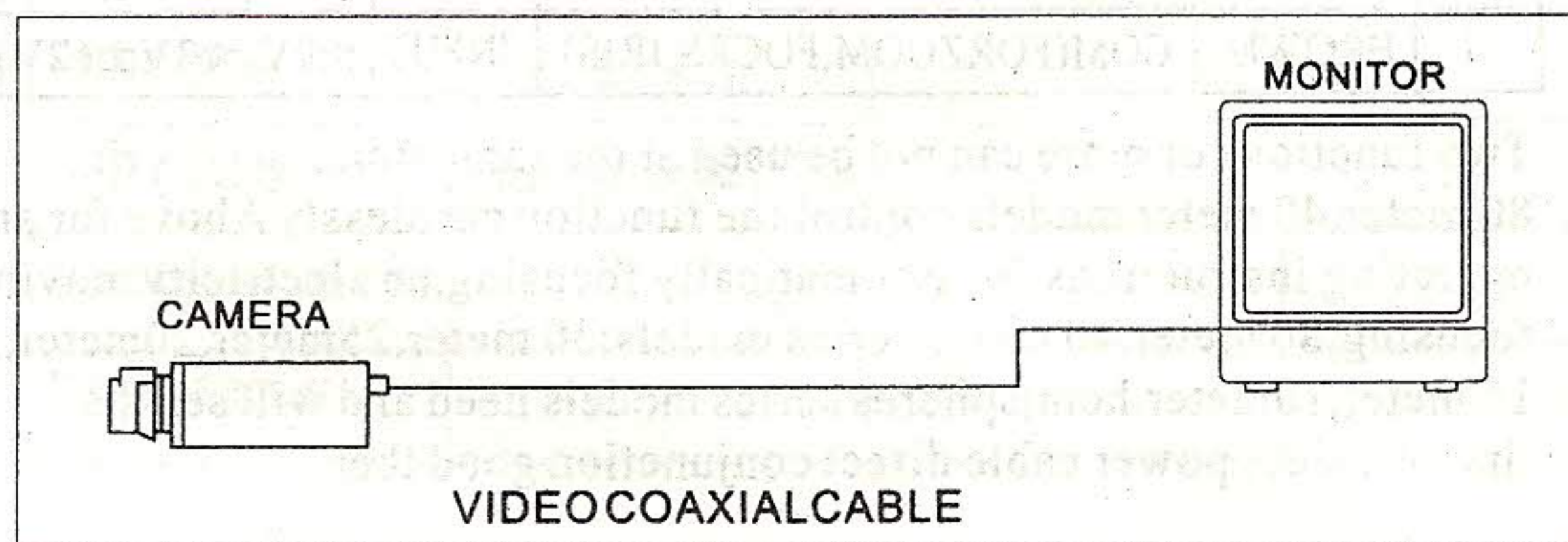
Two functions or more can not be used at the same time.

80 meter,40 meter models control the function cordlessly Above for an operating instructions for automatically focusing,an electricity moving focusing,80 meter,40 meter series models;30 meter,25meter,20meter, 15 meter,10meter,hemispheres series models need and will see the line of video, power cable direct conjunction good then.

CONNECTORS AND CONTROLS 7-continued



2. SIMPLEST ONE MONITOR SYSTEM WITH ONE CAMERA



DSP Infrared CCD Colour Camera

IMAGE DEVICE	1/3" Exview HAD Interline CCD	
TVSYSTEM	PAL	NTSC
PICTURE ELEMENTS	752(H)X582(W)	768(H)X492(W)
SCANNING FREQUENCY	Horizontal:13625KHZ Vertical:50Hz	Horizontal:15.736KHZ Vertical:60Hz
HORIZONTAL, RESOLUTION	480 TV LINES	480 TV LINES
MINMUMILLUMINATION	0.01Lux/F1.2	0.01Lux/F1.2
PICTURE ELEMENTS	500(H)X582(W)	510(H)X492(W)
VIDEO OUTPUT	1.0Vp-pVBS75ΩBNC	1.0Vp-pVBS75ΩBNC
AGC	ON/OFF	ON/OFF
S/N RATIO	more than 48db	more than 48db
BLC	ON/OFF	ON/OFF
AUTOMATIC ELECTRONIC SHUTTER	EE/AI	EE/AI
AUTO IRIS CONTROL	VIDEO/DC	VIDEO/DC

*Specifcations ate subject to change without notice

DSP Infrared CCD Colour Camera

IMAGE DEVICE	1/3"Exview HAD Interline CCD	
TVSYSTEM	PAL	NTSC
PICTURE ELEMENTS	500(H)X582(W)	510(H)X492(W)
SCANNING FREQUENCY	Horizontal:15.625KHZ Vertical:50Hz	Horizontal:15.736KHZ Vertical:60Hz
HORIZONTAL, RESOLUTION	420 TV LINES	420 TV LINES
MINMUMILLUMINATION	0.05Lux/F1.2	0.05Lux/F1.2
VIDEO OUTPUT	1.0Vp-pVBS75ΩBNC	1.0Vp-pVBS75ΩBNC
AGC	ON/OFF	ON/OFF
S/N RATIO	more than 48db	more than 48db
BLC	ON/OFF	ON/OFF
AUTOMATIC ELECTRONIC SHUTTER	EE/AI	EE/AI
AUTO IRIS CONTROL	VIDEO/DC	VIDEO/DC

*Specifcations ate subject to change without notice

COLOR HIGH RESOLUTION CAMERA

IMAGE DEVICE	1/3" CCD	
TVSYSTEM	PAL	NTSC
PICTURE ELEMENTS	752(H)X582(W)	768(H)X492(W)
SCANNING FREQUENCY	Horizontal:15.625KHZ Vertical:50Hz	Horizontal:15.736KHZ Vertical:60Hz
HORIZONTAL, RESOLUTION	480 TV Lines	480 TV Lines
MINMUMILLUMINATION	0.8Lux/F1.2	0.8Lux/F1.2
VIDEO OUTPUT	1.0Vp-pVBS75ΩBNC	1.0Vp-pVBS75ΩBNC
AGC	ON/OFF	ON/OFF
S/N RATIO	more than 48db	more than 48db
BLC	ON/OFF	ON/ OFF
AUTOMATIC ELECTRONIC SHUTTER	EE/AI	EE/AI
AUTO IRIS CONTROL	VIDEO/DC	VIDEO/DC

*Specifcations ate subject to change without notice

COLOR NORMAL RESOLUTION CAMERA

Pickup Device:	1/4" CCD
Picture Elements:	PAL:512(H)X582(V) NTSC:512(H)X492(V)
Sensing Area:	3.6mm X 2.7mm
System of Signal:	PAL/NTSC
Horizontal Resolution:	420 TV Lines
Lens Mount:	C/CS Mount(C Mount adaptor option)
Electronic Shutter Control:	ON/OFF Switchable
Backlight Compensation:	ON/OFF Switchable
Electronic Shutter:	(1/60)-1/100,000(sec)
Auto Iris Lens:	VIDEO/DC
White Balance	Auto tracking white balance
S / N:	More than 48db
Minmum Illumination:	F1.2/1.0Lux
Video Output:	BNC 1.0vp—p 75 Ω
SCANNING FREQUENCY	PAL: Horizontal:15.7343KHZ Vertical:50HZ NTSC: Horizontal:15.625KHZ Vertical:60HZ

B/W HIGH RESOLUTION CAMERA

IMAGE DEVICE	1/3" CCD	
TVSYSTEM	CCIR	EIA
PICTURE ELEMENTS	752(H)X582(V)	768(H)X494(V)
SCANNING SYSTEM	2:1 Interlace	2:1 Interlace
SCANNING FREQUENCY	Horizontal:15.625KHZ Vertical:50Hz	Horizontal:15.736KHZ Vertical:60Hz
HORIZONTAL, RESOLUTION	600TV Lines	600TV Lines
MINMUM ILLUMINATION	F1.2/0.05Lux	F1.2/0.05Lux
VIDEO OUTPUT	1.0Vp-p VBS75 Ω BNC	1.0Vp-p VBS75 Ω BNC
S/N RATIO	more than 48db	more than 48db
BLC	ON/ OFF	ON/ OFF
AUTOMATIC ELECTRONIC SHUTTER	EE/AI	EE/AI
AUTO IRIS CONTROL	VIDEO/DC	VIDEO/DC

*Specifcations ate subject to change without notice.

SAW HIGH RESOLUTION CAMERA

13-000

IMAGE OF

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