

High Resolution High Sensitivity 3D DNR Camera

INSTRUCTION MANUAL JV-BC02DNR



CONTENTS

PRECAUTION.....	2
FEATURES.....	3
DIMENSION	3
INSTALLATION.....	4
SPECIFICATIONS.....	5
BASIC TECHNICAL DATA AND DEFAULT SETTING	6
OSD MENU OPERATION INSTRUCTION.....	9

PRECAUTION

Do not open or modify

Do not adjust the camera's internal circuits or power supply modules, as it may cause damage to the unit. For internal set up and repair, please consult our dealer.

Do not put objects inside the unit

Make sure not to put metal objects or flammable substance inside the camera for it may cause damage to the unit. Consult your dealer If water or liquid gets inside the camera and the power cable is disconnected.

Be careful when handling the unit

Do not drop the camera and avoid it from strong shock or vibration.

Install away from electric or magnetic fields

It may interfere or distort the image when camera is installed close to electric or magnetic fields. Ex: TV, Speaker, and etc.

Avoid from humidity, dust and heat

- a. Do not install the camera in smoky, dusty or steamy areas.
- b. Do not install the camera close to heat generating devices (for ex: spotlights)

Protect the camera carefully from direct exposure to sunlight, rain, and etc.

Cleaning

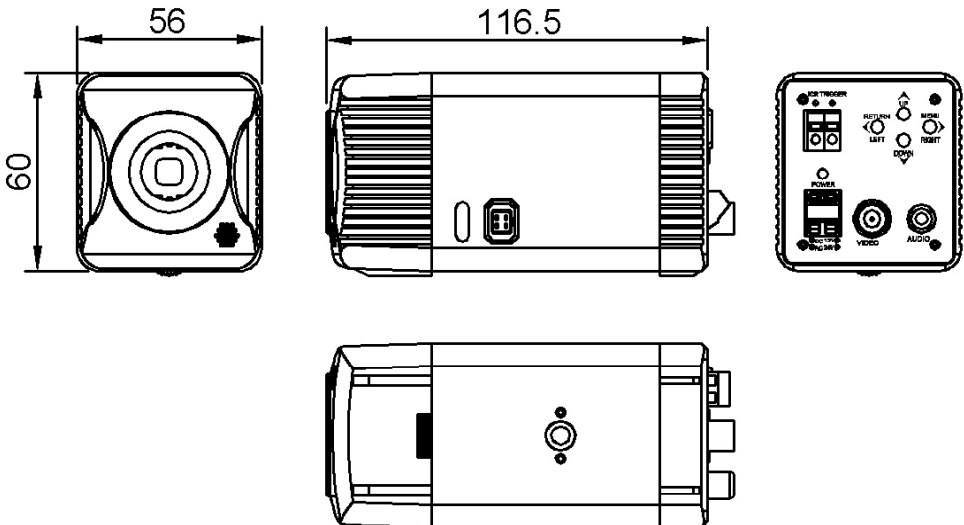
Do not touch the CCD directly. If necessary, use a soft cloth moistened with alcohol to wipe off dust.

FEATURES

MODEL: JV-BC02DNR

- I Super Hi- Res. CCD with Star-Light 600TV lines (D/N)
- I AUTO / MANUAL Electronic SHUTTER speed adjustable
- I High Sensitivity, Low Smear, excellent anti-blooming, and high S/N Ratio
- I On Screen Display (OSD) set-up Menu
- I Motion Detection, Privacy Marking, H / V MIRROR, FREEZE, NEGATIVE, CROSS LINE
- I 2X Digital Zoom with Manual PAN / Tilt
- I Challenging High Lighting Condition / adjustable Back Light Compensation
- I S/N Ratio with Auto 3D-DNR / Auto IRIS Lens Cable Management
- I Built in Video / Power Surge Protection.
- I C & CS MOUNT ADJUST

DIMENSION



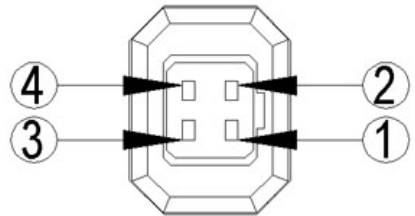
INSTALLATION

Auto Iris Lens

1. Remove the protective cap from the cameras lens mount.
2. Carefully fix the CS/C lens onto the camera lens mount and turn clockwise slowly until it is firmly attached.
3. Insert the cable Plug into the lens terminal socket located behind the camera body.
4. For IRIS connector details see the following table

Auto IRIS Lens Connection

IRIS JACK	DC-LENS
P1	DUMP -
P2	DUMP +
P3	DRIVE +
P4	DRIVE -



Manual Iris Lens

1. Remove the protective cap from the cameras lens mount.
2. Carefully fix the CS/C lens onto the camera lens mount and turn clockwise slowly until it is firmly attached.

POWER SUPPLY

1. Before turning on the power, ensure that the lens is fitted on the camera to avoid damage to the exposed CCD chipset.
2. You can use DC12V or AC24V power supply for the camera.

CONNECTION

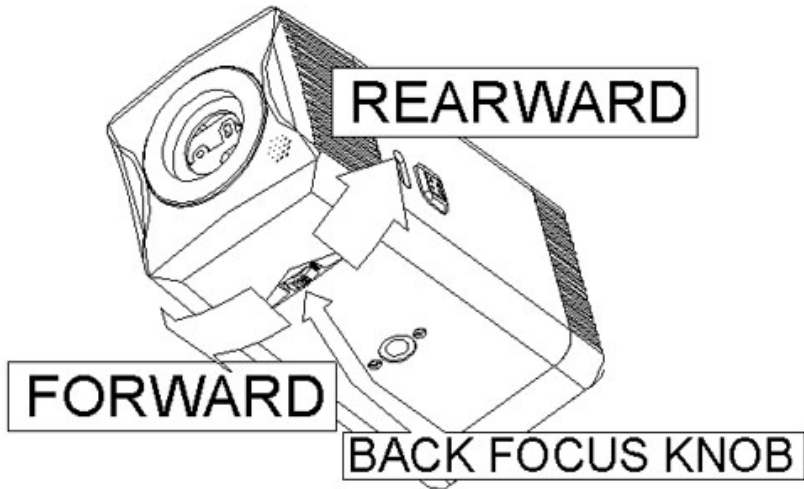
1. Connect the video outputs of the camera to the video inputs of a monitor or DVR.
2. Connect power supply to the power input on the camera then turn on the power.
3. Adjust the lens and camera to receive the best image.

SPECIFICATIONS

Model No.	JV-BC02DNR
Image Pick-up Device	1/3" CCD Image Sensor (Hi-Res)
Total Pick-up	NTSC: 811x 507, PAL: 765 x 595
Effective Picture Elements	NTSC: 771 x 492, PAL: 753 x 582
Horizontal Resolution	560 TV lines (color) / 600 TV lines (D/N)
Minimum Illumination	0.01 Lux
IR Cut	-
ICR External Control	-
Digital Zoom	2X · MANUEL PAN/TILT
S/N Ratio WITH AOTO 3D-DNR	More than 56 dB
Gamma Characteristic	0.45 /1.0
Auto / Manual Electronic Shutter	NTSC: 1/60s~1/120,000s, PAL: 1/50s~1/120,000s
DIGITAL SOLW SHUTTER	2X~64X
Flicker less Mode	YES
MIRROR FUNCTION	HORIZONTAL/VERTICAL
IMAGE FUNCTION	FREEZE · NEGATIVE · CROSS LINE
Auto Gain Control	ON/OFF (6~24dB adjustable)
White Balance	Auto (ATW, AWB, FIXED, Manual) / 3200 ~ 10000 °K
Back Light Compensation	ON/OFF (48 Area Adjustable)
Motion Detection	YES
Video Output	1 Vp-p / 75 Ohms
Audio Output	2Vp-p Max
Day & Night	Auto (Level adjustable), Color, B/W
Privacy Masking	ON/OFF (4 Area adjustable)
Synchronous System	EXT. /INT.SYNC./ (LINE LOCK OPTION)
Power Supply	AC24V / DC12V
Power Consumption	4 W
Operating Temperature	-10°C~65°C (14°F~149°F)
Dimension	56(W) x 60(H) x 116.5(L) mm
Packing	1 Caron=12pcs BOX : 7.5x7x15 cm

BASIC TECHNICAL DATA AND DEFAULT SETTING

Focal adjust



I Adjusting The Back Focus of a Lens

The back focus knob is located on the bottom side of the camera. It is used for fine-tuning different back focal distance with C/CS Mount Lens by changing the distance between CCD sensor and camera's lens.

Notes :

The maxima operating length of the tuning knob is about 17.5 mm.

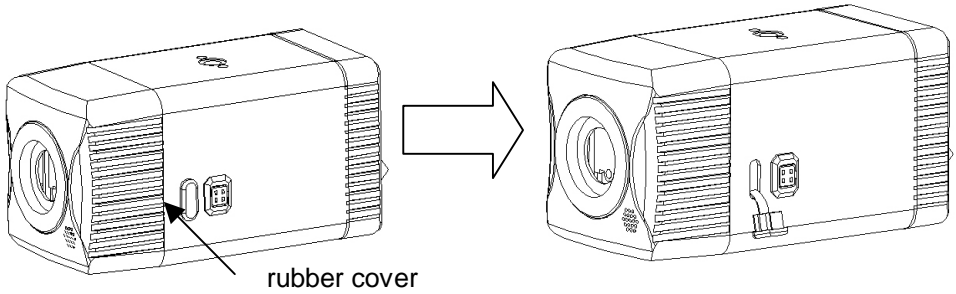
The mechanical strength of the knob could be broken by over-force. To avoid breaking, the user has to stop turning the knob when there is obstruction.

Default Setting is for CS mount type.

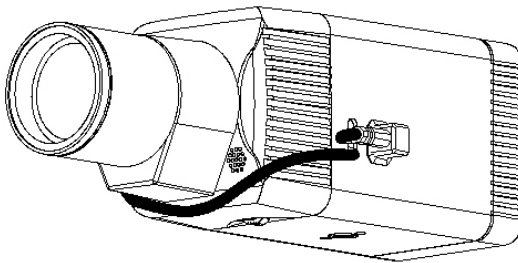
IRIS Lens cable Instruction

There is oval hole on the side cover of camera. This is for collecting the excess iris lens cable.

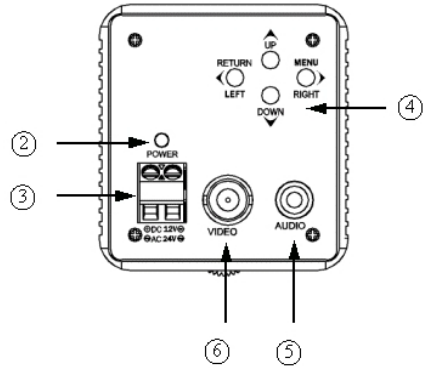
1. Pull out the rubber cover, an oval hole appears.



2. Connecting lens with camera, plug the lens cable into auto iris jack, and then put the excess lens cable into oval hole.



Control key and function



1. POWER LED
2. POWER INPUT (DC12V · AC24V) ◦
3. OSD FUNCTION SWITCH ◦
4. AUDIO OUTPUT
5. VIDEO OUTPUT

OSD Menu Operating Instruction

SETUP MENU (1/3)

	I	M	A	G	E	Q	U	A	L	I	T	Y		
→	1	I	R	I	S									
	2	A	G	C	/	S	E	N	S					
	3	G	A	M	M	A	/	E	N	H	A	N	C	E
	4	I	R	S	E	T	T	I	N	G				
	5	B	A	C	K	L	I	G	H	T				
	6	W	H	I	T	E	B	A	L	A	N	C	E	

SETUP MENU (2/3)

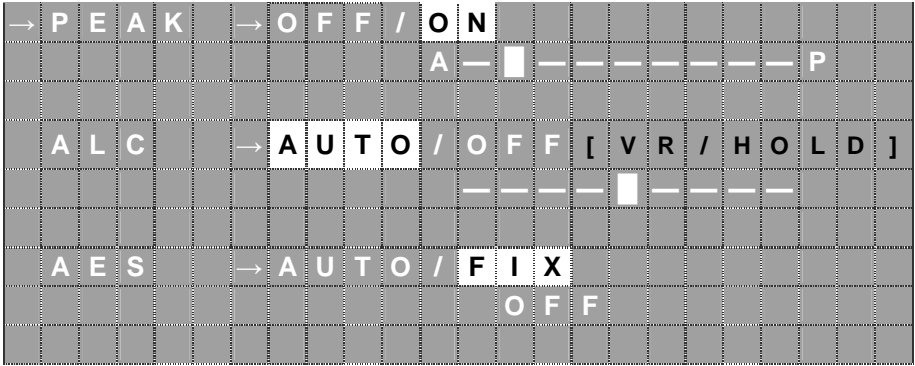
	F	U	N	C	T	I	O	N	M	E	N	U		
→	1	M	O	T	I	O	N	D	E	T	E	C	T	
	2	D	I	G	I	T	A	L	Z	O	O	M		
	3	H	/	V	R	E	V	E	R	S	E			
	4	F	R	E	E	Z	E							
	5	C	R	O	S	S	L	I	N	E				
	6	M	A	S	K									
	7	P	O	S	I	/	N	E	G	A				

SETUP MENU (3/3)

	E	X	T	R	A	S	E	T	T	I	N	G		
→	1	L	A	N	G	U	A	G	E					
	2	T	I	T	L	E								
	3	P	R	I	O	R	I	T	Y					
	4	R	E	S	E	T	/	S	Y	N	C			

1. To display OSD MENU on the screen, press the MENU key for 2 seconds.
2. To turn of OSD MENU on the screen, press the RETURN key.
3. Press UP, DOWN and RIGHT keys to move and make the decision.

IRIS



[VR / HOLD]

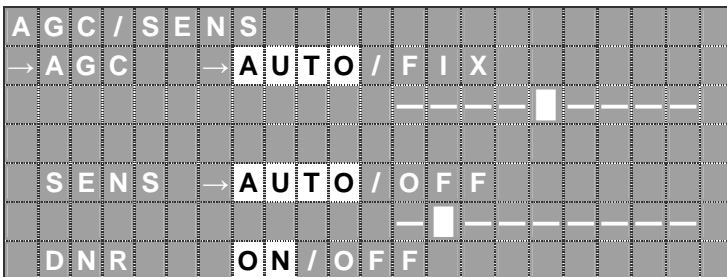
ALC setting is controlled by VR on camera board.

Please reference to “PRIORITY” function that in extra setting menu for more detail.

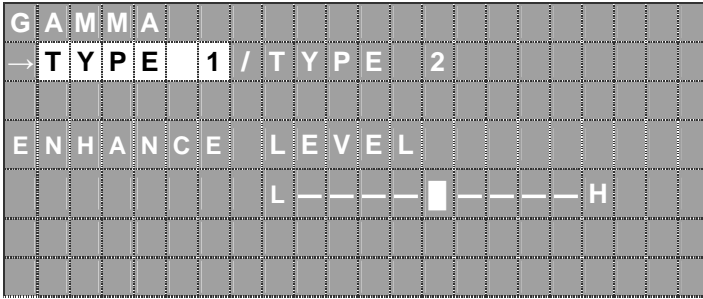
AES SETTING

1. AUTO: To select MANUAL IRIS lens.
2. FIX: To select AUTO IRIS lens.
3. If want to catch the speeding moving object such as car. change the shutter speed as 1/250 , 1/300, 1/350..... till clear picture appears.

AGC/SENS



GAMMA



GAMMA

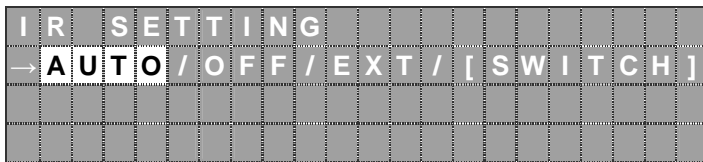
TYPE 1: GAMMA= 0.45

TYPE 2: GAMMA= 1.00

ENHANCE LEVEL

When the picture too sharp to get the clear video output then adjust H Gain / V Gain to acquire the best image.

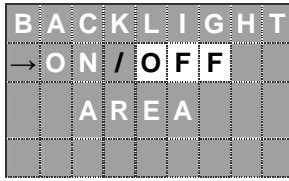
IR SETTING



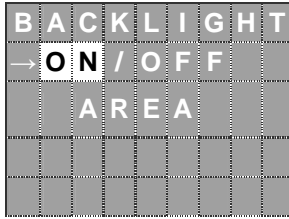
1. AUTO — Color in the daytime and B/W in the nighttime (Low Lux situation)
2. EXT— ICR、IR Iter controlled by external Infrared signal.
3. OFF— Color image all the time.
4. SWITCH— IR on/off is controlled by DIP switch.

Please reference to “PRIORITY” function that in extra setting menu for more detail.

BACK LIGHT



Backlight function is not working.

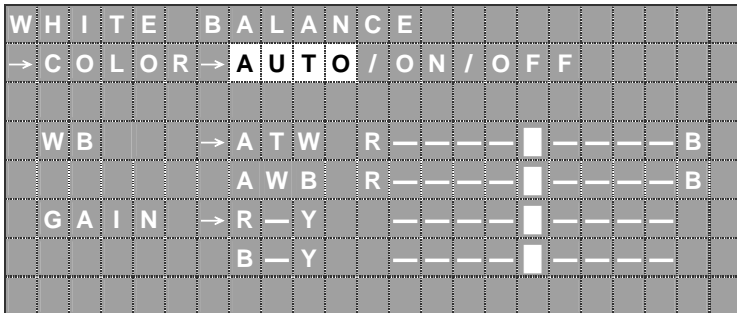


48 backlight areas can be selected and shown by gray marking.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

Note: backlight areas setting is not less than 8 blocks

WHITE BALANCE



Set COLOR at ON mode when you select the fully color camera.

Set COLOR at AUTO mode when you select the camera with IR or ICR.

MOTION DETECT

M	O	T	I	O	N	D	E	T	E	C	T								
→	O	F	F	/	O	N	6	0											
→	A	R	E	A			3	0											
	T	I	M	E	→	1	0	S	E	C									
	S	E	N	S				L	-	-	-	-	█	-	-	-	-	H	
	D	I	S	P	L	A	Y	O	F	F	/	O	N						

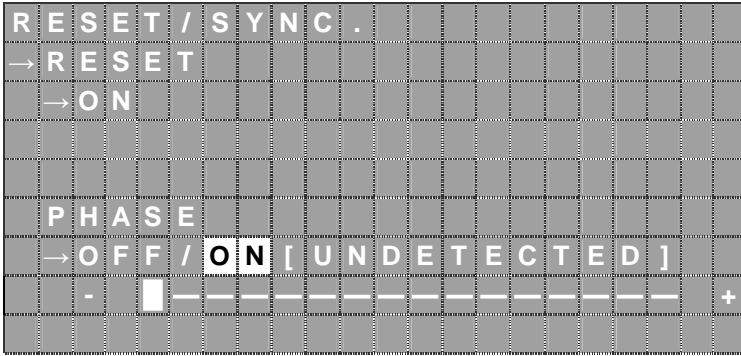
48 motion detection areas can be selected and shown by gray marking.

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48

DIGITAL ZOOM

D	I	G	I	T	A	L	Z	O	O	M									
→	O	F	F	/	O	N													
	H	-	P	O	S	I	T	I	O	N	0	4	4						
	V	-	P	O	S	I	T	I	O	N	0	3	1						
	D	I	S	P	L	A	Y			O	F	F	/	O	N				

RESET/SYNC



[UNDETECTED]: No Line-Lock Signal Input.



THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES OPERATIONS IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.



VER:20100224