

# Camera OSD Manual

P/N : 388067635  
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Before installing, operating or adjusting this product, please read this instruction booklet carefully and completely.

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### 2. CAMERA SPECIFICATION

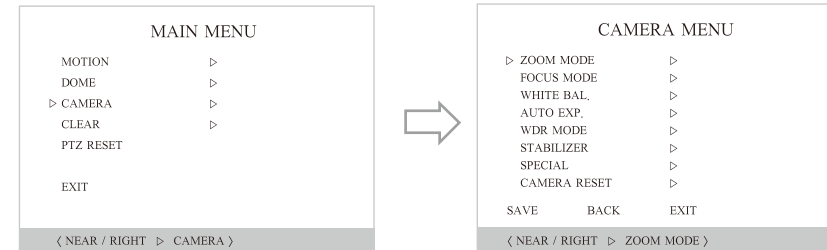
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## 1. Camera Setting

Camera menu subject to be changed without prior notice to upgrade and quality increase and we may use slip sheet for the change.

Please check the camera version and the slip sheet if the camera menu and this manual menu is not matched.

### CAMERA MENU



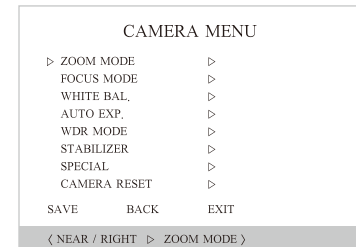
### CAMERA MENU

- Functions can be set-up using the Camera menu.

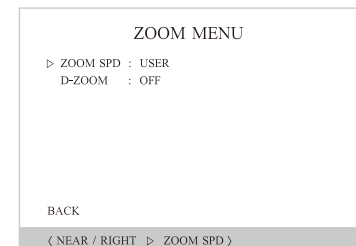
In this menu, user can set the zoom, focus, white balance, auto exposure...etc functions.

### 1. 1 ZOOM MODE

Decide using of digital zoom function and select zoom speed.



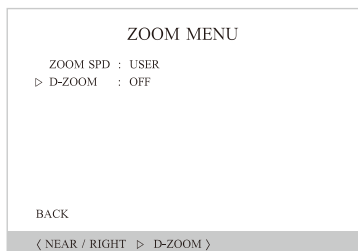
#### - ZOOM SPD



ZOOM SPD : Select from 0steps to 7 steps,  
USER (Standard speed)

Select : or Set ON : Set OFF :

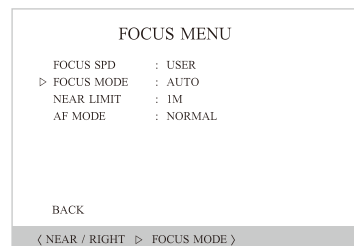
## - D-ZOOM



Decide using of digital zoom function.  
D-ZOOM : ON/ OFF

Select :  or  Set ON :  Set OFF : 

## - FOCUS MODE



AUTO : The camera adjusts the focus automatically while monitoring the screen continuously in the auto mode. In the auto focusing mode, zoom key operation is not recognized as the input of the focus key.

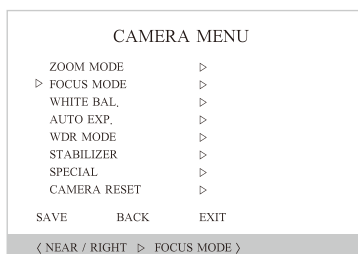
MANUAL : In the manual mode, users can adjust the camera focus manually.

ONE PUSH : Make focus with one push button and Zoom in/out operation.

INFINITY : infinity focus is the state where a lens forms an image of an object an infinite distance away. This corresponds to the point of focus for parallel rays.

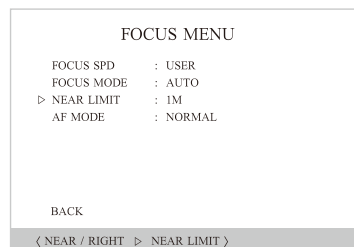
Select :  or  Set ON :  Set OFF : 

## 1.2 FOCUS MODE



In Focus menu, you can set up the focus speed, focus mode, near limit and AF mode.

## - NEAR LIMIT

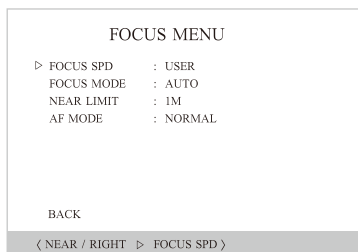


Infinity focus is the state where a lens forms an image of an object an infinite distance away.

This corresponds to the point of focus for parallel rays.  
( Over Infinity~ 1.0CM)

Select :  or  Set ON :  Set OFF : 

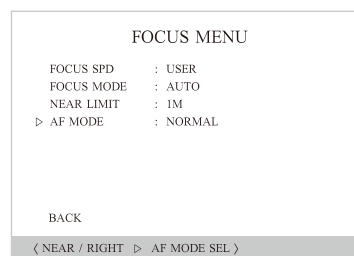
## - FOCUS SPD



Set the speed for camera focusing. (0~7 USER)

Select :  or  Set ON :  Set OFF : 

## - AF MODE



Set the Auto Focus Mode.

Select :  or  Set ON :  Set OFF : 

AF MODE is work in the AUTO MODE only.

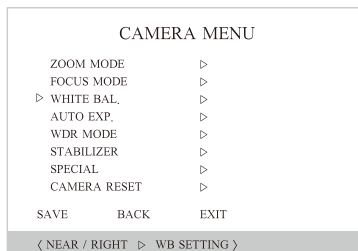
- NORMAL : AF is worked when the image is changed.

- ZOOM : AF is worked when the zoom rate is changed.

※ ZOOM features may vary by model.

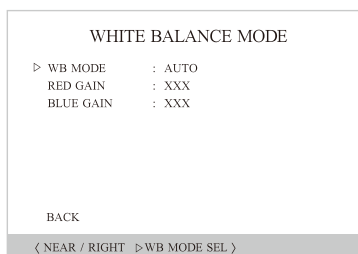
- INTERVAL : AF and AF STOP is repetitively worked in settled time.

### 1. 3 WHITE BALANCE



White balance setting is a function revising color temperature to resolve the problem that screen's colors change by the color temperature's difference according to time.

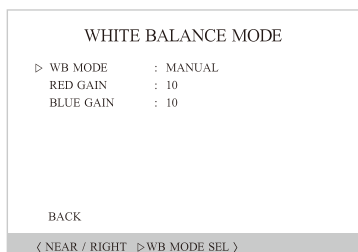
#### - WB MODE



WB MODE: Set the color depend on white balance.  
WB MODE : Select AUTO, INDOOR, OUTDOOR, ONEPUSHAWB or MANUAL.

Select : or Set ON : Set OFF :

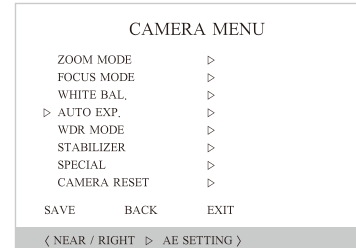
#### - WB MANUAL MODE



Adjust color level (RED, BLUE : 00~ 20)  
Standard level : RED -> 10 BLUE->110

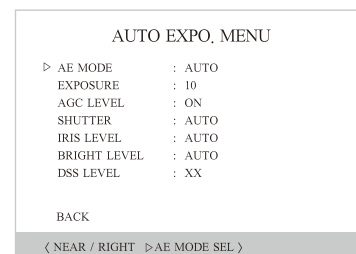
Select : or Set ON : Set OFF :

### 1. 4 AUTO EXPOSURE



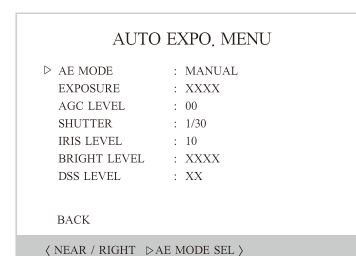
AE setting is a function adjusting shutter speed according to subject's brightness to get standard amount of exposed light.

#### - AE MODE



Select AUTO, MANUAL, SHUTTER, IRIS or BRIGHT.

Select : or Set ON : Set OFF :



AE MODE setting can be changed in the MANUAL.

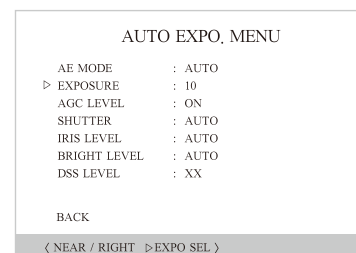
AGC LEVEL : Select 00~10

IRIS LEVEL : Select 00~13

\* 1/8, 1/15, 1/30, 1/60(50), 1/120(100), 1/250, 1/700, 1/1000, 1/1600, 1/2500, 1/5000, 1/7000, 1/10000, 1/30000 sec

Select : or Set ON : Set OFF :

#### - EXPO MODE



Set the exposure.(00 ~20)

Select : or Set ON : Set OFF :

## - AGC LEVEL

AUTO EXPO. MENU	
AE MODE	: AUTO
EXPOSURE	: 10
▷ AGC LEVEL	: ON
SHUTTER	: AUTO
IRIS LEVEL	: AUTO
BRIGHT LEVEL	: AUTO
DSS LEVEL	: XX
BACK	
◀ NEAR / RIGHT ▶ AGC LEVEL ▶	

In AE MODE,  
**AUTO, IRIS, SHUTTER** : Select AGC LEVEL ON/OFF. (ON/OFF)  
**MANUAL** : Select AGC LEVEL from 0 to 10. (0~10)

Select :  or  Set ON :  Set OFF : 

## - DSS LEVEL

AUTO EXPO. MENU	
AE MODE	: AUTO
EXPOSURE	: 10
AGC LEVEL	: ON
SHUTTER	: AUTO
IRIS LEVEL	: AUTO
BRIGHT LEVEL	: AUTO
▷ DSS LEVEL	: XX
BACK	
◀ NEAR / RIGHT ▶ DSS LEVEL ▶	

Digital Slow Shutter : Control digital slow shutter speed.  
(x2, x4, x8)

※ DSS LEVEL can be set when the AE MODE is set to  
**AUTO or IRIS.**

Select :  or  Set ON :  Set OFF : 

## - SHUTTER

AUTO EXPO. MENU	
AE MODE	: SHUTTER
EXPOSURE	: 10
AGC LEVEL	: ON
▷ SHUTTER	: 1/30
IRIS LEVEL	: AUTO
BRIGHT LEVEL	: AUTO
DSS LEVEL	: XX
BACK	
◀ NEAR / RIGHT ▶ SHUTTER ▶	

If you set SHUTTER in the AE MODE, you can control shutter speed.

\* 1/18, 1/15, 1/30, 1/60(50), 1/120(100), 1/250, 1/700, 1/1000,  
1/1600, 1/2500, 1/5000, 1/7000, 1/10000, 1/30000 sec

Select :  or  Set ON :  Set OFF : 

## - IRIS LEVEL

AUTO EXPO. MENU	
AE MODE	: IRIS
EXPOSURE	: 10
AGC LEVEL	: ON
SHUTTER	: AUTO
▷ IRIS LEVEL	: 10
BRIGHT LEVEL	: AUTO
DSS LEVEL	: XX
BACK	
◀ NEAR / RIGHT ▶ IRIS LEVEL ▶	

If you set IRIS in the AE MODE, you can set the IRIS level  
from 00 to 13

Select :  or  Set ON :  Set OFF : 

## - BRIGHT LEVEL

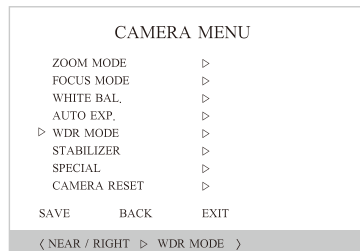
AUTO EXPO. MENU	
AE MODE	: BRIGHT
EXPOSURE	: XXXX
AGC LEVEL	: XXX
SHUTTER	: AUTO
IRIS LEVEL	: XXXX
▷ BRIGHT LEVEL	: 10
DSS LEVEL	: XX
BACK	
◀ NEAR / RIGHT ▶ BRIGHT LEVEL ▶	

To change bright level, select BRIGHT in AE MODE and  
set by NEAR key.

Set from 0 ~ 23.

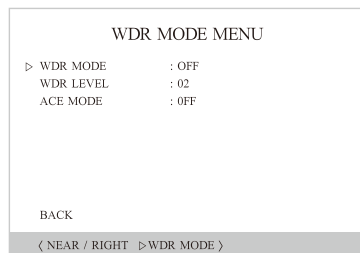
Select :  or  Set ON :  Set OFF : 

## 1.5 WDR MODE



Set WDR function.  
WDR(Wide Dynamic Range)

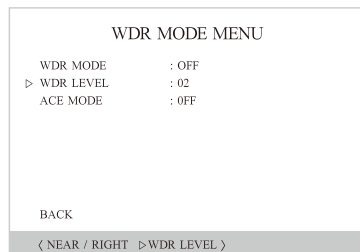
### - WDR MODE



Select ON/OFF in the WDR MODE function.  
※ When WDR MODE is ON, the analog is not output.

Select : or Set ON : Set OFF :

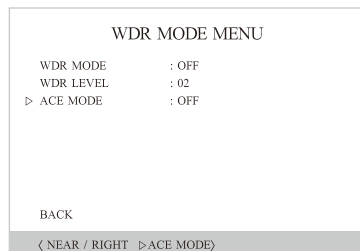
### - WDR LEVEL



Select WDR LEVEL.

Select : or Set ON : Set OFF :

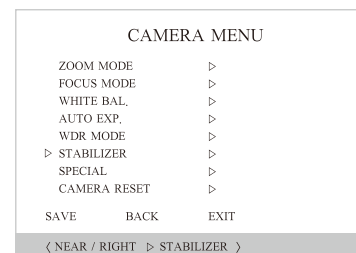
### - ACE MODE



Select ON/OFF in the ACE MODE function.  
※ Defog function is disable in the ACE ON mode

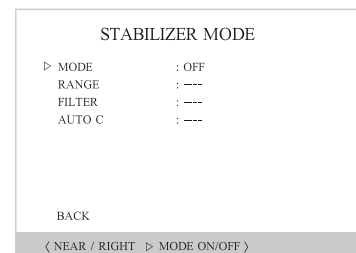
Select : or Set ON : Set OFF :

## 1.6 STABILIZER



Select Digital Image Stabilizer mode.

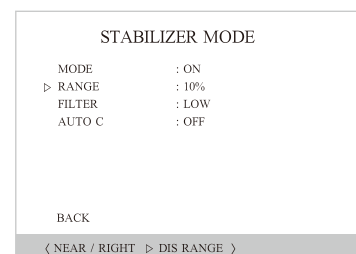
### - STABILIZER MODE



Set the Stabilizer mode.(ON/OFF)

Select : or Set ON : Set OFF :

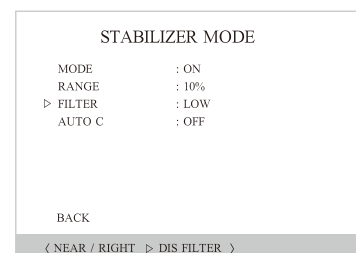
### - RANGE



Setting the image compensation range.(10%, 20%, 30%)

Select : or Set ON : Set OFF :

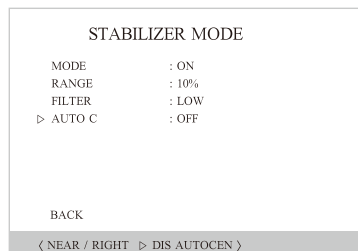
### - FILTER



Setting the sensitivity DIS function in worst case.  
(LOW, MIDDLE, HIGH)

Select : or Set ON : Set OFF :

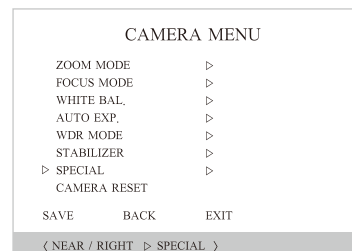
## - AUTO C



Setting Auto Centering mode.(OFF, HALF, FULL)

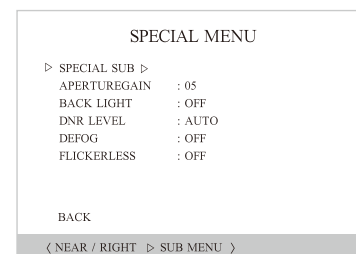
Select : or Set ON : Set OFF :

## 1.7 SPECIAL

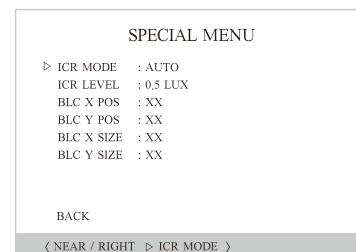


In the Special menu, it's available to set special function of the camera.

## - SPECIAL SUB



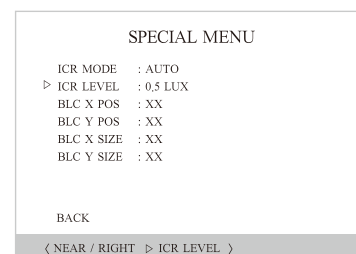
## - ICR MODE



Select AUTO, DAY and NIGHT.

Select : or Set ON : Set OFF :

## - ICR LEVEL

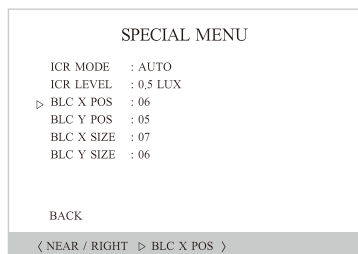


Set ICR Value.

Select : or Set ON : Set OFF :

\* If you set ON in the BACK LIGHT, you can set the BLC. (Camera Menu->Special Menu->BACK LIGHT : ON)

## - BLC X POS

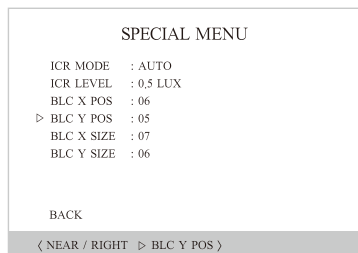


Set the BLC X POSION

- Default : 06
- Change : 0 ~ 19

Select :  or  Set ON :  Set OFF : 

## - BLC Y POS

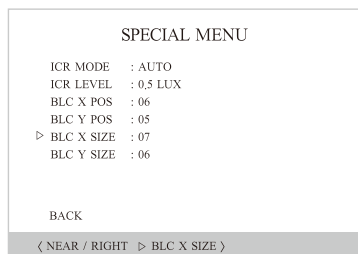


Set BLC Y POSION

- Default : 05
- Change : 0 ~ 18

Select :  or  Set ON :  Set OFF : 

## - BLC X SIZE

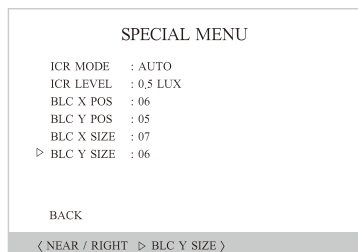


Set BLC X SIZE

- Default : 07
- Change : 0 ~ 19

Select :  or  Set ON :  Set OFF : 

## - BLC Y SIZE

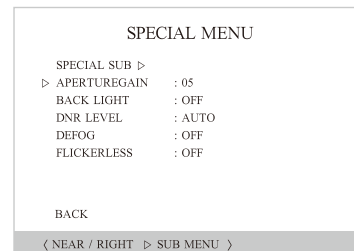


Set BLC Y SIZE

- Default : 06
- Change : 0 ~ 19

Select :  or  Set ON :  Set OFF : 

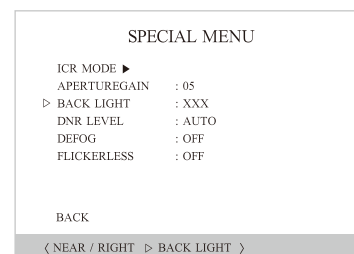
## - APERTURE GAIN



APERTURE GAIN: Select aperture gain.

Select :  or  Set ON :  Set OFF : 

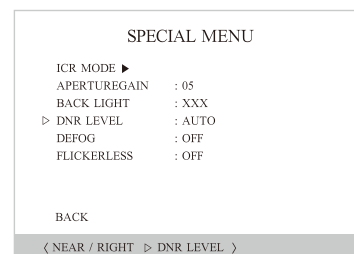
## - BACK LIGHT



Select ON/OFF in the BACK LIGHT function.

Select :  or  Set ON :  Set OFF : 

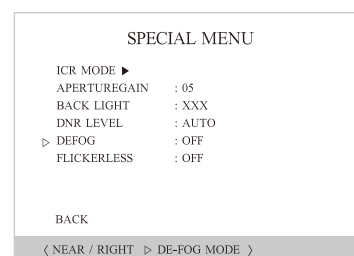
## - DNR LEVEL



DNR, Digital Nois Reduction funtion.  
(Select AUTO, LEV1, LEV2, LEV3, OFF)

Select :  or  Set ON :  Set OFF : 

## - DEFOG



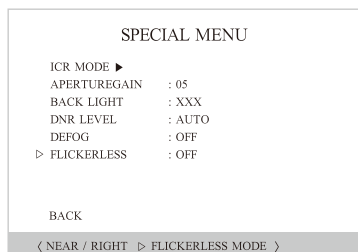
Defogging foggy video image.(ON/OFF)

Select :  or  Set ON :  Set OFF : 

\* Depending on the camera program, the default value and changing value can be changed.



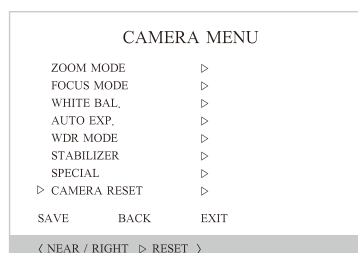
## - FLICKERLESS



Occurs flicker correction function in the Power frequency is different areas(50Hz/60Hz) (AE MODE AUTO / IRIS MODE can be in control)

Select : or Set ON : Set OFF :

## 1.8 CAMERA RESET



Make initialize the setting value which is set in CAMERA MENU.

Select : or Set ON : Set OFF :

## 2. CAMERA SPECIFICATION

### 2.1 x30 Camera

Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,241(V) = 2.42M Pixels
Active pixels	1,937(H) x 1,097(V) = 2.12M Pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital : 1080p/30(25)fps, 1080p/60(50)fps(Optional), 720p/30(25)fps, 720p/60(50)fps Analog : 700TVL
Min. illumination	Color(1/30s) : 0.15 lux , BW(1/30s) : 0.01 lux Color DSS(1/7.5s) : 0.0375 lux , BW DSS(1/7.5s) : 0.002 lux
Video Output	HD : Digital(LVDS), EX-SDI Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	x30 Day & Night Zoom Lens
Zoom Ratio	Optical x30, Digital x32 Zoom
Focal Length	f = 6.0 mm ~ 180.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.3 (tele)
Focus	Mode / Distance / Zoom Speed / Lens Refresh / E.Zoom
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m
Lens Refresh	One Push / 1 ~ 10Day
E.Zoom	Off / MAX x2 ~ x32
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / x2 / x4 (/ x8 : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night / Ext-in
White Balance	AUTO / One Push / Manual / Indoor / Outdoor
DNR	Auto / Off / Low / Middle / High
System	NTSC / PAL
HD Format	1080p/30(25)fps / 1080p/60(50)fps(Optional) / 720p/30(25)fps / 720p/60(50)fps

\* Design and specifications are subject to change without notice.