

Camera OSD Manual

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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

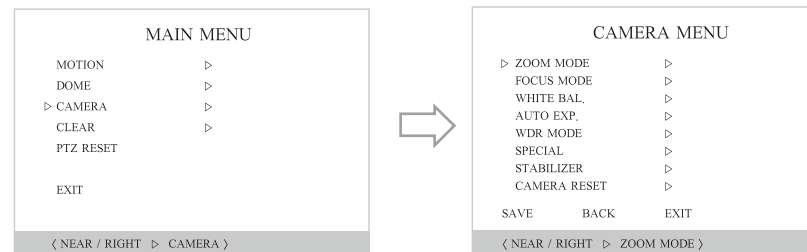
2. 1 x20 Camera	16p.
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1. Camera Setting

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



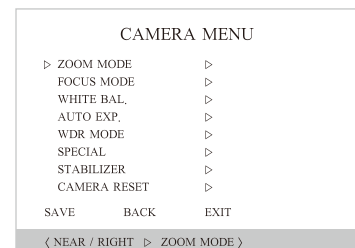
CAMERA MENU

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

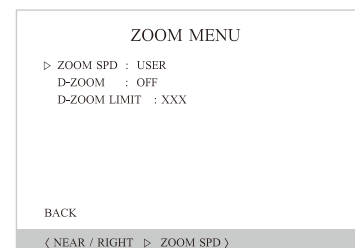
In this menu, user can set the zoom, focus, white balance, auto exposure...etc functions.

1. 1 ZOOM MODE

Decide using of digital zoom function and select zoom speed.



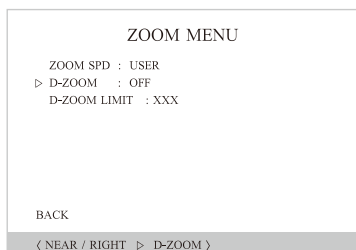
- ZOOM SPD



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

Select : or Set ON : Set OFF :

- D-ZOOM

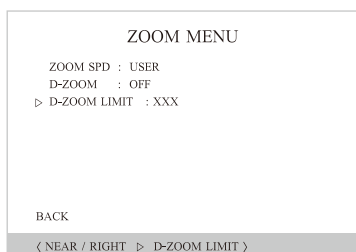


Decide using of digital zoom function.

D-ZOOM: ON/ OFF

Select : or Set ON : Set OFF :

- D-ZOOM LIMIT

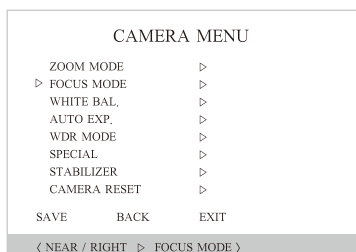


D-ZOOM LIMIT : x2 ~ x32 Digital Zoom Limit

When D-ZOOM is ON, D-ZOOM LIMIT function is available.

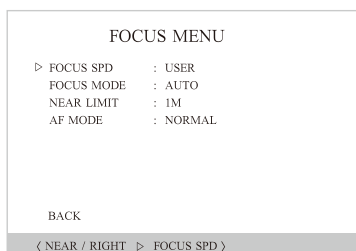
Select : or Set ON : Set OFF :

1.2 FOCUS MODE



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

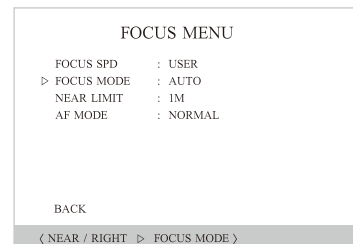
- FOCUS SPD



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

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.

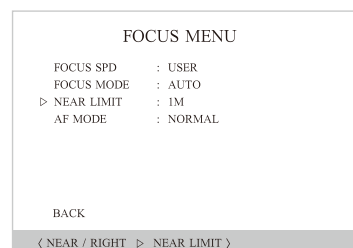
MANUAL : In the manual mode, users can adjust the camera focus manually.

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 :

- NEAR LIMIT

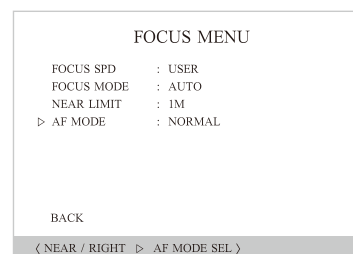


Infinity focus is the state where a lens forms an image of an object an infinite distance away.

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

Select : or Set ON : Set OFF :

- AF MODE



Set the Auto Focus Mode.

Select : or Set ON : Set OFF :

AF MODE is work in the AUTO MODE only.

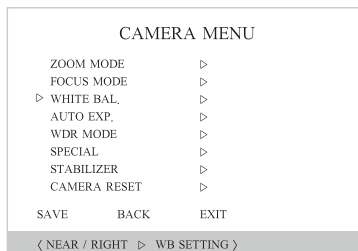
- NORMAL : AF is worked when the image is changed.

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

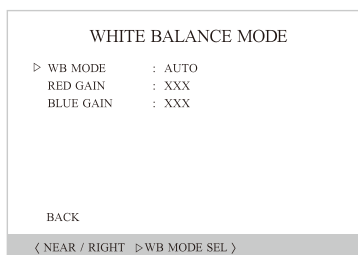
※ ZOOM features may vary by model.

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

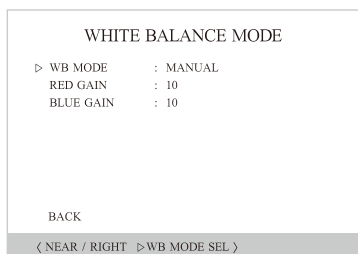
1. 3 WHITE BALANCE



- WB MODE



- WB MANUAL MODE



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.

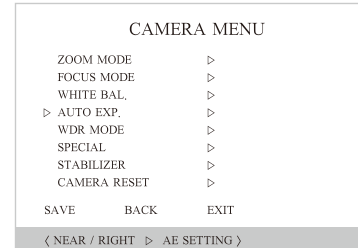
WB MODE: Set the color depend on white balance.
WB MODE : Select AUTO, INDOOR, OUTDOOR, ONEPUSHAWB or MANUAL.

Select : or Set ON : Set OFF :

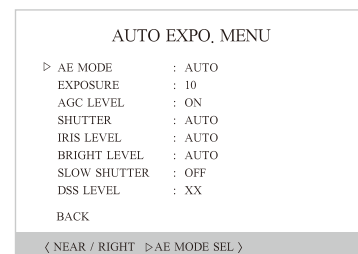
Adjust color level (RED, BLUE : 00~ 20)
Standard level : RED -> 10 BLUE->110

Select : or Set ON : Set OFF :

1. 4 AUTO EXPOSURE



- AE MODE



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

Select AUTO, MANUAL, SHUTTER, IRIS or BRIGHT.

Select : or Set ON : Set OFF :



AE MODE setting can be changed in the MANUAL.

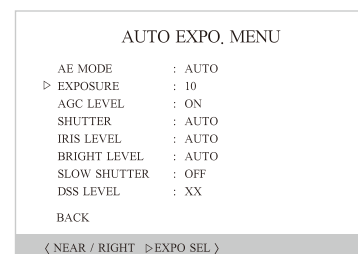
AGC LEVEL : Select 00~10

IRIS LEVEL : Select 00~13

* 60 / 50 fps mode ► x8, x4, x2, 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
* 30 / 25 fps mode ► x4, x2, 1/30(25), 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
* x2, x3, x4, 1/30, 1/60, 1/120, 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000 sec
* Set value depends upon the camera models.

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
SLOW SHUTTER	: OFF
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 : 

- SHUTTER

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

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

* 60 / 50 fps mode ▶ 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
 * 30 / 25 fps mode ▶ 1/30(25), 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
 * 1/30, 1/60, 1/120, 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000, 1/60000 sec
 * Set value depends upon the camera models.

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
SLOW SHUTTER	: OFF
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
SLOW SHUTTER	: XXX
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 : 

- SLOW SHUTTER

AUTO EXPO. MENU	
AE MODE	: AUTO
EXPOSURE	: 10
AGC LEVEL	: ON
SHUTTER	: AUTO
IRIS LEVEL	: AUTO
BRIGHT LEVEL	: AUTO
SLOW SHUTTER	: OFF
▷ DSS LEVEL	: XX
BACK	
< NEAR / RIGHT ▷ SLOW SHUTTER >	

Set the SHLOW SHUTTER ON/OFF.
 It is work only when the AE MODE is AUTO or IRIS.

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
SLOW SHUTTER	: OFF
▷ DSS LEVEL	: XX
BACK	
< NEAR / RIGHT ▷ DSS LEVEL >	

Digital Slow Shutter : Control digital show shutter speed.

* 60 / 50 fps mode ▶ x2, x4, x8

* 30 / 25 fps mode ▶ x2, x4

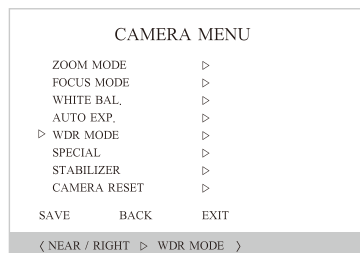
* x2, x3, x4

* Set value depends upon the camera models.

※ When the AE MODE AUTO and IRIS, SLOW SHUTTER ON state Can be set only when DSS LEVEL.

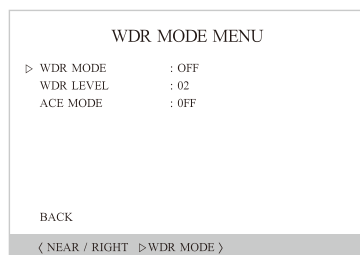
Select :  or  Set ON :  Set OFF : 

1. 5 WDR MODE



Set WDR function
WDR(Wide Dynamic Range)

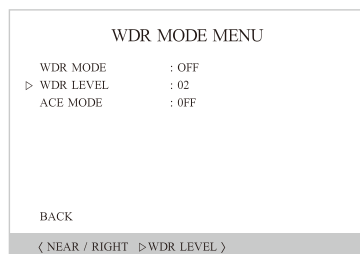
- WDR MODE



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



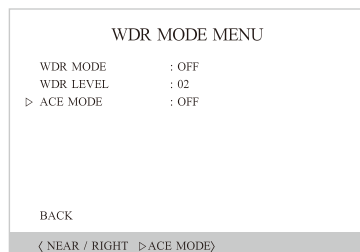
- WDR LEVEL



Select WDR LEVEL.



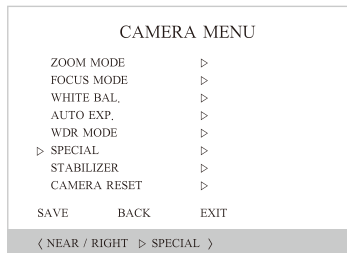
- ACE MODE



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



1. 6 SPECIAL



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

- ICR MODE



Set the ICR MODE.
Select AUTO, DAY and NIGHT.
*The factory default is Auto.



- SHARPNESS



Adjust the sharpness of the screen.



- BACK LIGHT



Select ON/OFF in the BACK LIGHT function.



- PRESET FREEZE

SPECIAL MENU	
ICR MODE	: AUTO
SHARPNESS	: 05
BACK LIGHT	: OFF
▷ PRESET FREEZE	: OFF
DNR LEVEL	: AUTO
FLICKERLESS	: ON
DEFOG	: OFF
PRIVACY COLOR	: WHITE
BACK	
〈 NEAR / RIGHT ▷ PRESET FREEZE 〉	

Display start image and finished image only.
Static image on-screen during the camera movement.

Select :  or  Set ON :  Set OFF : 

- DNR LEVEL

SPECIAL MENU	
ICR MODE	: AUTO
SHARPNESS	: 05
BACK LIGHT	: OFF
PRESET FREEZE	: OFF
▷ DNR LEVEL	: AUTO
FLICKERLESS	: ON
DEFOG	: OFF
PRIVACY COLOR	: WHITE
BACK	
〈 NEAR / RIGHT ▷ DNR LEVEL 〉	

Select the DNR level from AUTO, LEV1, LEV2, LEV3 and OFF.

DNR, Digital Noise Reduction function.
(Select AUTO, LEV1, LEV2, LEV3, OFF)

※ This mode is used in low light.

Select :  or  Set ON :  Set OFF : 

- FLICKERLESS

SPECIAL MENU	
ICR MODE ▶	: AUTO
SHARPNESS	: 05
BACK LIGHT	: OFF
PRESET FREEZE	: OFF
DNR LEVEL	: AUTO
▷ FLICKERLESS	: ON
DEFOG	: OFF
PRIVACY COLOR	: WHITE
BACK	
〈 NEAR / RIGHT ▷ FLICKERLESS 〉	

Select ON/OFF in the Flickerless function
(Support in the AE MODE AUTO & IRIS MODE)

Select :  or  Set ON :  Set OFF : 

- DEFOG

SPECIAL MENU	
ICR MODE ▶	: AUTO
SHARPNESS	: 05
BACK LIGHT	: OFF
PRESET FREEZE	: OFF
DNR LEVEL	: AUTO
FLICKERLESS	: ON
▷ DEFOG	: OFF
PRIVACY COLOR	: WHITE
BACK	
〈 NEAR / RIGHT ▷ DE-FOG MODE 〉	

Defogging foggy video image.

Select ON/OFF.

(Disable in ACE MODE ON)

Select :  or  Set ON :  Set OFF : 

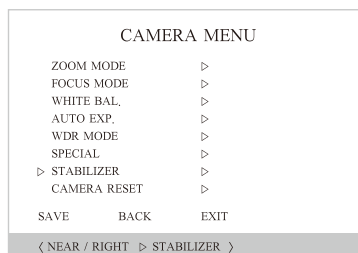
- PRIVACY COLOR

SPECIAL MENU	
ICR MODE	: AUTO
SHARPNESS	: 05
BACK LIGHT	: OFF
PRESET FREEZE	: OFF
DNR LEVEL	: AUTO
FLICKERLESS	: ON
DEFOG	: OFF
▷ PRIVACY COLOR	: WHITE
BACK	
〈 NEAR / RIGHT ▷ PRIVACY COLOR 〉	

Change the privacy mark color: Step=>WHITE, RED, GREEN, BLUE, CYAN, YELLOW, MAGENTA, BLACK, GRAY1~6

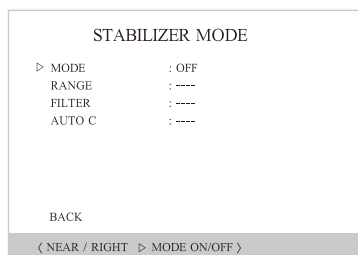
Select :  or  Set ON :  Set OFF : 

1. 7 STABILIZER



Select Digital Image Stabilizer mode

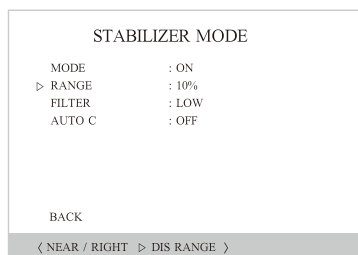
- STABILIZER MODE



Set the Stabilizer mode.(ON/OFF)



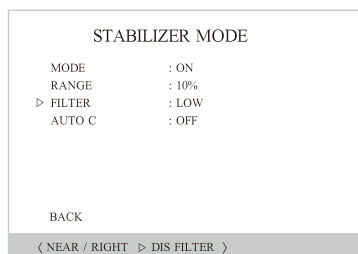
- RANGE



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



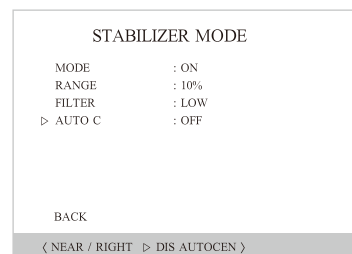
- FILTER



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



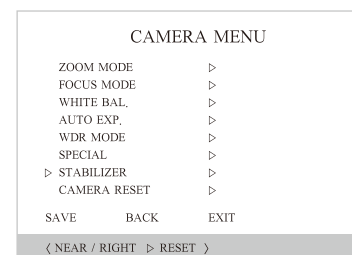
- AUTO C



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



1. 8 CAMERA RESET



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



2. CAMERA SPECIFICATION

2.1 x20 Camera

Image Sensor	1/3" Panasonic CMOS Sensor
Total Pixels	1956 (H) x 1266 (V) = 2.48M Pixels
Active pixels	1944 (H) x 1092 (V) = 2.12M Pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital ; 1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps Analog : 700TVL
Min. illumination	Color : 0.5 lux , BW : 0.1lux Color DSS : 0.002 lux , BW DSS : 0.001 lux
Video Output	HD : Digital(LVDS) Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	x20 Day & Night Zoom Lens
Zoom Ratio	Optical x20, Digital x32 Zoom
Focal Length	f = 4.7 mm ~ 94.0 mm
Aperture Ratio	F1.6 (wide) ~ F3.5 (tele)
Focus	Mode / Distance / Lens Refresh / E.Zoom
Mode	Auto / One Push / Manual
Distance	0.1 / 0.5 / 0.8 / 1.0 / 3.0 / 6.0 / 10.0 m
Lens Refresh	Off / 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 / Max x2 ~ x4
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night / Ext
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 / 720p/30(25)fps / 720p/60(50)fps

Image Sensor	1/3" Panasonic CMOS Sensor
Total Pixels	2,010(H) x 1,108(V), 2.2M Pixels
Active pixels	1,944(H) x 1,092(V), 2.1M Pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital ; 1920x1080p(1080p/30fps) , 1280x720p(720p/60fps) Analog : 700TVL
Min. illumination	Color : 0.5 lux , BW : 0.1lux Color DSS : 0.002 lux , BW DSS : 0.001 lux
Video Output	HD : Digital(LVDS) Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	x20 Day & Night Zoom Lens
Zoom Ratio	Optical x20, Digital x32 Zoom
Focal Length	f = 4.7 mm ~ 94.0 mm
Aperture Ratio	F1.6 (wide) ~ F3.5 (tele)
Focus	Mode / Distance / Lens Refresh / E.Zoom
Mode	Auto / One Push / Manual
Distance	0.1 / 0.5 / 0.8 / 1.0 / 3.0 / 6.0 / 10.0 m
Lens Refresh	Off / 1 ~ 10Day
E.Zoom	Off / MAX x2 ~ x32
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / Max x2 ~ x4
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night / Ext
White Balance	AUTO / One Push / Manual / Indoor / Outdoor
DNR	Auto / Off / Low / Middle / High
System	NTSC / PAL
HD Format	1080P / 720P

2.2 x30 Camera

Image Sensor	1/3" Panasonic CMOS Sensor
Total Pixels	1956 (H) x 1266 (V) = 2.48M Pixels
Active pixels	1944 (H) x 1092 (V) = 2.12M Pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital ; 1080p/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps Analog : 700TVL
Min. illumination	Color : 0.5 lux , BW : 0.1lux Color DSS : 0.002 lux , BW DSS : 0.001 lux
Video Output	HD : Digital(LVDS) 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 = 4.3 mm ~ 129.0 mm
Aperture Ratio	F1.6 (wide) ~ F5.0 (tele)
Focus	Mode / Distance / Lens Refresh / E.Zoom
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 6.0 / 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 / Max x2 ~ x4
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night / Ext
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 / 720p/30(25)fps / 720p/60(50)fps

Image Sensor	1/3" Panasonic CMOS Sensor
Total Pixels	2,010(H) x 1,108(V), 2.2M Pixels
Active pixels	1,944(H) x 1,092(V), 2.1M Pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital ; 1920x1080p(1080p/30fps,25fps), 1280x720p(720p/60fps,50fps) Analog : 700TVL
Min. illumination	Color : 0.5 lux , BW : 0.1lux Color DSS : 0.002 lux , BW DSS : 0.001 lux
Video Output	HD : Digital(LVDS) 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 = 4.3 mm ~ 129.0 mm
Aperture Ratio	F1.6 (wide) ~ F5.0 (tele)
Focus	Mode / Distance / Lens Refresh / E.Zoom
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 6.0 / 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) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / Max x2 ~ x4
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 / 720P