

Camera OSD Manual

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.

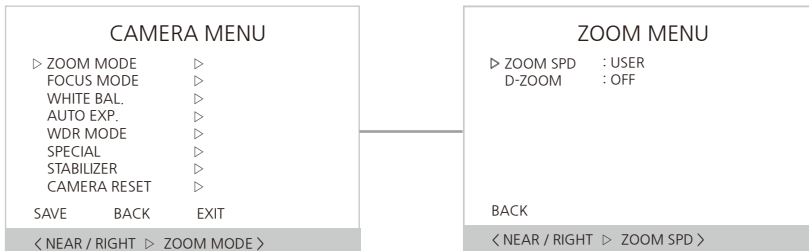


CAMERA MENU

- 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



(1) ZOOM SPD

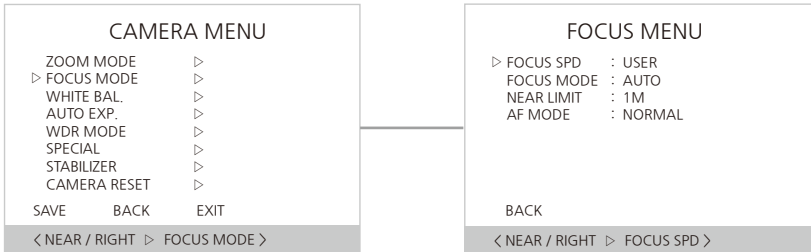
Decide using of digital zoom function and select zoom speed.

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

(2) D-ZOOM

Decide using of digital zoom function.(ON/ OFF)

1. 2 FOCUS MODE



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

(1) FOCUS SPD

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

(2) 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.

(3) 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)

(4) AF MODE

Set the Auto Focus Mode. AF MODE is work in the AUTO MODE only.

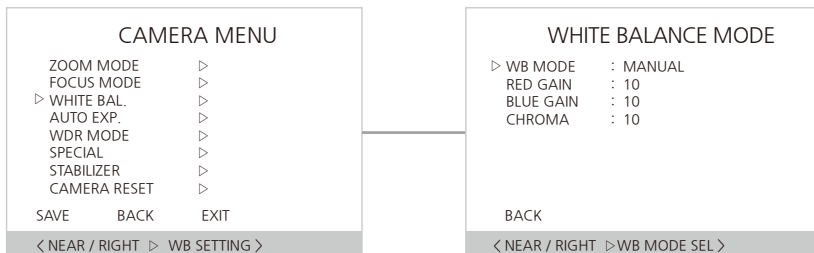
NORMAL : AF is worked when the image is changed.

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.

(1) WB MODE

WB MODE: Set the color depend on white balance.

Select AUTO, ONEPUSH, MANUAL, INDOOR, OUTDOOR or AUTO-EXT.

※ Set value depends upon the camera models.

(2) WB MANUAL MODE

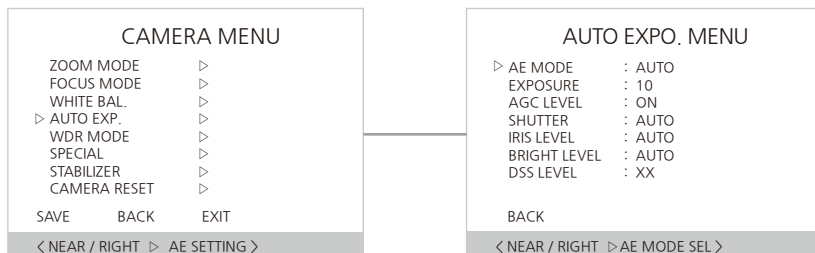
Adjust color level (RED, BLUE : 00~ 20)

Standard level : RED -> 10 BLUE->10

(3) WB CHROMA GAIN

Set WB Chroma Gain(00~ 20, Default : 10)

1. 4 AUTO EXPOSURE



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

(1) AE MODE

Select AUTO, MANUAL, SHUTTER, IRIS or BRIGHT.

(2) EXPO MODE

Set the exposure. (00 ~ 20)

(3) AGC LEVEL

If you set AUTO or IRIS in the AE MODE, you can set the AGC level from 00 to 10

(4) SHUTTER

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

* NTSC : 1/1 ~ 1/60000, PAL : 1/1 ~ 1/60000

* Set value depends upon the camera models.

(5) IRIS LEVEL

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

(6) BRIGHT LEVEL

To change bright level, select BRIGHT in AE MODE and set by NEAR key. Set from 00 ~ 23.

(7) DSS LEVEL

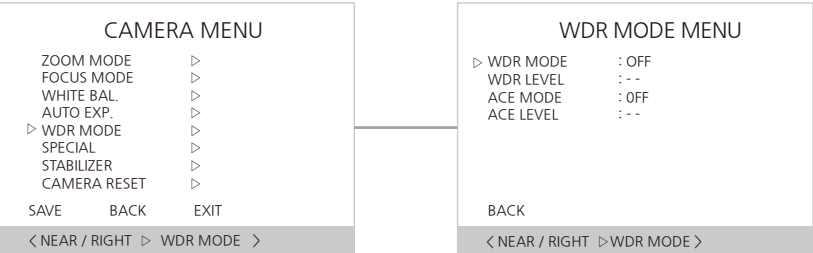
Digital Slow Shutter : Control digital slow shutter speed. (2x ~ 64x)

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

* If you set OFF in the FLICKERLESS, you can set DSS level.

※ Set value depends upon the camera models.

1.5 WDR MODE



Set WDR funtion. WDR(Wide Dynamic Range)

(1) WDR MODE

Select ON/OFF in the WDR MODE function.

* When WDR MODE is ON, the analog is not output.

(2) WDR LEVEL

Select WDR LEVEL.

(3) ACE MODE

Select ON/OFF in the ACE MODE function.

* Defog function is disable in the ACE ON mode

(4) ACE LEVEL

Select ACE LEVEL.

※ Set value depends upon the camera models.

1. 6 SPECIAL



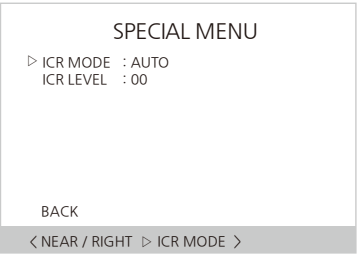
In the Special menu, it's available to set special function of the camera.

※ Set value depends upon the camera models.

(1) ICR MENU

ICR MODE
Select AUTO, DAY and NIGHT.

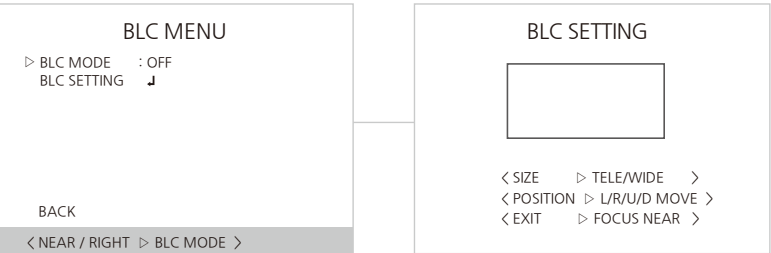
ICR LEVEL
Set ICR Value.



(2) BLC MENU

Select ON/OFF in the BACK LIGHT function.

- * If you set ON in the BACK LIGHT, you can set the BLC.
- * Position : Position setting depends upon the camera models.



(3) HLC MENU

Select High Light Compensation.

When extremely bright light is projected to the camera masking is used on the portion to prevent partial saturation on the monitor.

HLC LEVEL

0 ~ 20(Default : 10)

HLC CLIP

BLK ~ MAG(Default : WHT)

(4) SHARPNESS

Select Sharpness.

(5) DNR LEVEL

DNR, Digital Noise Reduction function.(OFF ~ AUTO, Default : LEV2)

2DNR: Correction by referring to adjacent pixels.

3DNR: Correction by referring to the information of the video frame and the previous frame.

※ 2DNR and 3DNR can be set separately depending on the product or the installed camera.

(6) DEFOG

Defogging foggy video image.(ON/OFF)

Disable in ACE MODE ON

(7) FLICKERLESS

Occurs flicker correction function in the Power frequency is different areas(50Hz/60Hz)

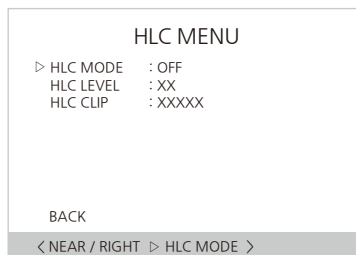
Select ON, OFF or AUTO.

AE MODE AUTO / IRIS MODE can be in control

* If you set OFF in the FLICKERLESS, you can set DSS level.

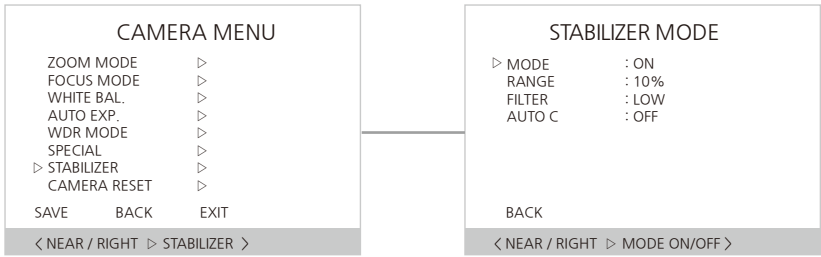
(8) GAMMA LEVEL

Select GAMMA LEVEL.(0~3)



※ Set value depends upon the camera models.

1. 7 STABILIZER



Select Digital Image Stabilizer mode.

(1) STABILIZER MODE

Set the Stabilizer mode.(ON/OFF)

(2) RANGE

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

※ Set value depends upon the camera models.

(3) FILTER

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

(4) 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 10x Camera

Image Sensor	1/2.86" 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
Min. illumination	Color : 0.5 lux , BW : 0.1lux
	Color DSS : 0.125 lux , BW DSS : 0.025 lux
Video Output	HD : Digital(LVDS)
S/N Ratio	more than 50dB (AGC off)
Lens type	10x Day & Night Zoom Lens
Zoom Ratio	Optical 10x, Digital 32x Zoom
Focal Length	f = 5.1 mm ~ 51.0 mm
Aperture Ratio	F1.6 (wide) ~ F1.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 6.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x (/ 8x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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

* Design and specifications are subject to change without notice.

2.2 12x Camera

Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,113(V) = 2.17M pixels
Active pixels	1,937(H) x 1,097(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(1/30s, 77.7dB) : 0.01 lux , BW(1/30s, 77.7dB) : 0.002lux
	Color DSS(1/1s, 77.7dB) : 0.001 lux , BW DSS(1/1s, 77.7dB) : 0.0002 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	12x Day & Night Zoom Lens
Zoom Ratio	Optical 12x, Digital 32x Zoom
Focal Length	f = 7.0mm ~ 84mm
Aperture Ratio	F1.5 (wide) ~ F1.9 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
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

* Design and specifications are subject to change without notice.

Image Sensor	1/1.9" 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/60(50)fps, 1080p/30(25)fps, 720p/60(50)fps, 720p/30(25)fps
	Analog : 700TVL
Min. illumination	Color : 0.15 lux, BW : 0.01 lux
	Color DSS : 0.0375 lux, BW DSS : 0.002 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	12x Day & Night Zoom Lens
Zoom Ratio	Optical 12x, Digital 32x Zoom
Focal Length	f = 7.0mm ~ 84mm
Aperture Ratio	F1.5 (wide) ~ F1.9 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x (/ 8x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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

* Design and specifications are subject to change without notice.

2.3 20x Camera

Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	1945 (H) x 1109 (V) = 2.16M pixels
Active pixels	1937 (H) x 1097 (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(1/30s, 78dB) : 0.01 lux , BW(1/30s, 78dB) : 0.001lux
	Color DSS(1/1s, 78dB) : 0.001 lux , BW DSS(1/1s, 78dB) : 0.0001 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	20x Day & Night Zoom Lens
Zoom Ratio	Optical 20x, Digital 32x Zoom
Focal Length	f = 5.2 mm ~ 104 mm
Aperture Ratio	F1.5 (wide) ~ F3.5 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.5 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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

* Design and specifications are subject to change without notice.

2.4 30x Camera

Image Sensor	1/2.86" 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(1/30s) : 0.5 lux , BW(1/30s) : 0.1lux
	Color DSS(1/7.5s) : 0.125 lux , BW DSS(1/7.5s) : 0.025 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	30x Day & Night Zoom Lens
Zoom Ratio	Optical 30x, Digital 32x Zoom
Focal Length	f = 4.3 mm ~ 129.0 mm
Aperture Ratio	F1.6 (wide) ~ F5.0 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.0 / 3.0 / 6.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x (/ 8x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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

* Design and specifications are subject to change without notice.

Image Sensor	1/1.9" 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) Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	30x Day & Night Zoom Lens
Zoom Ratio	Optical 30x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 180.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.3 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x (/ 8x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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.

Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,113(V) = 2.17M 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, 77.7dB) : 0.01 lux , BW(1/30s, 77.7dB) : 0.002lux Color DSS(1/1s, 77.7dB) : 0.001 lux , BW DSS(1/1s, 77.7dB) : 0.0002 lux
Video Output	HD : Digital(LVDS) Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	30x Day & Night Zoom Lens
Zoom Ratio	Optical 30x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 180.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
DNR	Auto / Off / Low / Middle / High
System	NTSC / PAL
HD Format	Digital : 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.

Image Sensor	1/1.8" Sony CMOS Sensor
Total Pixels	3,096(H) x 2,094(V) = 6.48M pixels
Active pixels	3,089(H) x 1,744(V) = 5.39M pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital : 1440p 30(25)fps(Optional), 1080p 30(25)fps, 720p 30(25)fps
	Analog : 700TVL
Min. illumination	Color(1/30s, 51dB) : 0.2 lux , BW(1/30s, 51dB) : 0.05lux
	Color DSS(1/1s, 51dB) : 0.02 lux , BW DSS(1/1s, 51dB) : 0.005 lux
Video Output	HD : Digital(LVDS)
	Analog : CVBS
S/N Ratio	more than 50dB (AGC off)
Lens type	30x Day & Night Zoom Lens
Zoom Ratio	Optical 30x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 180.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
DNR	Auto / Off / Low / Middle / High
System	NTSC / PAL
HD Format	1440p30(25)fps(Optional) / 1080p30(25)fps / 720p30(25)fps

* Design and specifications are subject to change without notice.

2. 5 36x Camera

Image Sensor	1/1.9" 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)
	Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	36x Day & Night Zoom Lens
Zoom Ratio	Optical 36x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 216.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push / 1 ~ 10Day
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x (/ 8x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
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.

Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,113(V) = 2.17M 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) : 0.01 lux , BW(1/30s) : 0.002 lux
	Color DSS(1/1s) : 0.001 lux , BW DSS(1/1s) : 0.0002 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	36x Day & Night Zoom Lens
Zoom Ratio	Optical 36x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 216.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
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.

Image Sensor	1/1.8" Sony CMOS Sensor
Total Pixels	3,096(H) x 2,094(V) = 6.48M pixels
Active pixels	3,089(H) x 1,744(V) = 5.39M pixels
Scanning system	Progressive Scan
Sync. System	Internal
Resolution	Digital : 1440p 30(25)fps(Optional), 1080p 30(25)fps, 720p 30(25)fps
	Analog : 700TVL
Min. illumination	Color(1/30s, 51dB) : 0.2 lux , BW(1/30s, 51dB) : 0.05lux
	Color DSS(1/1s, 51dB) : 0.02 lux , BW DSS(1/1s, 51dB) : 0.005 lux
Video Output	HD : Digital(LVDS)
	Analog : CVBS
S/N Ratio	more than 50dB (AGC off)
Lens type	36x Day & Night Zoom Lens
Zoom Ratio	Optical 36x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 216.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/30,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
DNR	Auto / Off / Low / Middle / High
System	NTSC / PAL
HD Format	1440p30(25)fps(Optional) / 1080p30(25)fps / 720p30(25)fps

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Image Sensor	1/3" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,113(V) = 2.17M 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, 720p/30(25)fps, 720p/60(50)fps
	Analog : 700TVL
Min. illumination	Color(1/30s) : 0.01 lux , BW(1/30s) : 0.002 lux
	Color DSS(1/1s) : 0.001 lux , BW DSS(1/1s) : 0.0002 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	36x Day & Night Zoom Lens
Zoom Ratio	Optical 36x, Digital 32x Zoom
Focal Length	f = 7.0 mm ~ 252.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
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

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Image Sensor	1/2" Sony CMOS Sensor
Total Pixels	1,952(H) x 1,113(V) = 2.17M 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, 720p/30(25)fps, 720p/60(50)fps
	Analog : 700TVL
Min. illumination	Color(1/30s) : 0.01 lux , BW(1/30s) : 0.002 lux
	Color DSS(1/1s) : 0.001 lux , BW DSS(1/1s) : 0.0002 lux
Video Output	HD : Digital(LVDS)
	Analog SD : VBS
S/N Ratio	more than 50dB (AGC off)
Lens type	36x Day & Night Zoom Lens
Zoom Ratio	Optical 36x, Digital 32x Zoom
Focal Length	f = 6.0 mm ~ 216.0 mm
Aperture Ratio	F1.5 (wide) ~ F4.8 (tele)
Focus	Mode / Distance / AF Mode
Mode	Auto / One Push / Manual
Distance	0.1 / 1.5 / 3.0 / 5.0 / 10.0 m / Over
Lens Refresh	One Push
E.Zoom	Off / MAX 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/30(25) ~ 1/60,000 sec
Iris	0 ~ 20
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (64x : 60 or 50 fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	Auto / One Push / Manual / Indoor / Outdoor / Auto-Ext
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

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2.6 40x Camera

Image Sensor	1/2.8" Sony CMOS Sensor
Total Pixels	1,945(H) x 1,109(V) = 2.16M 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, 720p/30(25)fps, 720p/60(50)fps Analog : CVBS
Min. illumination	Color(1/30s, 79.5dB) : 0.01 lux , BW(1/30s, 79.5dB) : 0.002 lux Color DSS(1/1s, 79.5dB) : 0.001 lux , BW DSS(1/1s, 79.5dB) : 0.0002 lux
Video Output	HD : Digital(LVDS) Analog SD : VBS(without WDR)
S/N Ratio	more than 50dB (AGC off)
Lens type	40x Day & Night Zoom Lens
Zoom Ratio	Optical 40x, Digital 32x Zoom
Focal Length	f = 4.25 mm ~ 170.0 mm
Aperture Ratio	F1.6 (wide) ~ F4.95 (tele)
Focus	Focus / Zoom / AF Mode
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 2x ~ 32x
Exposure	AUTO / IRIS.P / SHUT.P / MANUAL
Shutter Speed	1/1 ~ 1/30,000 sec
Iris	Close ~ F1.6
Digital Slow Shutter (DSS)	Off / 2x / 4x / 8x / 16x / 32x (/64x : 60 or 50fps mode only)
WDR/BLC	OFF / WDR / BLC
Day&Night	Auto / Day / Night
White Balance	AUTO / One Push / Manual / Indoor / Outdoor
DNR	0 ~ 15 steps (2D/3D, 2D+3D)
System	NTSC / PAL
HD Format	1080p/30(25)fps / 1080p/60(50)fps / 720p/30(25)fps / 720p/60(50)fps

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