

Panasonic

BUSINESS

Security System Analog Products

February 2016



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(2B-014AA)

Superior Reality Processor Concept

Panasonic's analog cameras will evolve into the next generation with Superior Reality Processor.



Superior Features

SD6
Super Dynamic

Super Wide Dynamic Range
+
Enhanced ABS

Advanced Features

Intelligent Resolution

Color Reproducibility

Proactive 2D/3D-DNR

Enhanced ABS (Adaptive Black Stretch)

Lens Distortion Compensation

Electrical Sense Up 512x

On Screen Display Menu

Auto Tracking

Scene Change Detection

Auto Image Stabilizer

Basic Features

Horizontal resolution **700 lines**

Min. Illumination **0.08 lx (color)**

0.008 lx (B/W)

0 lx (with IR LED)

Technology for Analog products



“**Superior Reality**” processor realizes much high efficiency, such as high resolution, color reproducibility, high sensitivity, lens distortion, auto tracking (PTZ camera only), scene change detection (fixed camera only), auto image stabilizer.



Panasonic Black Box Technology

SD Non-Linear Combined Algorithm

Super wide dynamic is improved in color reproducibility with new algorithm.

Enhanced ABS

Enhanced ABS processing improves dark area graduation and visibility around motion area, exceeding the human eye.

Proactive 2D/3D-DNR

Enhanced DNR processes image proactively with the combination of 2D DNR processing for the moving object with 3D DNR for the background.

Technology

Superior Features

SuperDynamic 6

Super Dynamic 6 delivers Superior image by fusion of Super Dynamic with Non-Linear Combined Algorithm and enhanced ABS (Adaptive Black Stretch). It not only features natural contrast reproduction, but also improves dark area graduation and visibility around motion area, exceeding the human eye.

Conventional



Superior Reality Processor



Advanced Features

Intelligent Resolution

This feature makes the blur image by an electronic zoom processing to clear image. It provide identification of the characters of a number plate, a note etc. by Superior Reality processor. So more effective surveillance system can be offered.

Conventional



Superior Reality Processor



Color Reproducibility

To ensure that what you see is the full range of natural color, the digital color circuitry in our Superior Reality processor processes color at a finer level of detail, enabling reproduction of even poorly illuminated or pale colors.

Conventional



Superior Reality Processor



Proactive 2D/3D-DNR

The combination of 2D DNR processing for the moving object with 3D DNR for the background corrects movement-generated streaking. Now even the headlights of moving cars can be seen clearly, unmarred by the streaks of light produced by previous 3D DNR object-image processing.

Conventional



Superior Reality Processor

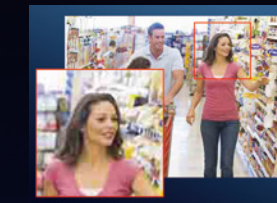


Basic Features

High Resolution

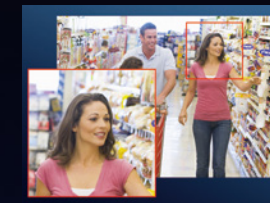
Superior Reality processor delivers color images with 650 lines (typical) of horizontal resolution, revealing the picture's smallest detail.

Conventional



Details are unclear.

Superior Reality Processor



The person can easily be identified with clear details.

High Sensitivity

Minimum illumination 0.08 lx allows color images even when lighting is dim. When the situation is too dark, Electronic Sensitivity Enhancement and Day/Night feature further enhances the low light capability at 0.008 lx, ideal for 24-hour surveillance.

Conventional

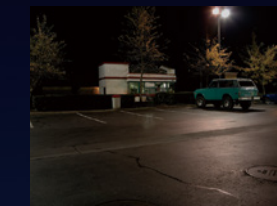
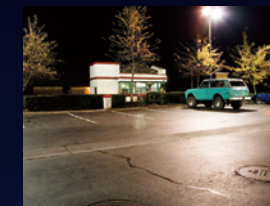


Image is dark and unclear.

Superior Reality Processor



Clear image thanks to the high sensitivity.

Additional Value

Lens Distortion Compensation

The compensation of distortion with wide-angle lens enables the use of various lenses.

Electrical Sense Up 512x

This feature provides effective surveillance in low light condition by up to 512x of electrical sense up function.

On Screen Display Menu

This feature provides easy and useful configuration menu which implemented to all line-up models.

Auto Tracking (PTZ camera only)















This feature automatically follows the largest moving object in the image, causing the camera to pan and tilt to keep the object in the center of the image.






Scene Change Detection







This feature detects interference and sends an alarm signal when the camera's operation has been hampered.

Auto Image Stabilizer






















Automatic image stabilization prevents blurring under the condition by vibration from high winds, aircraft, trains, or large trucks.











Analog Camera Comparison chart			NTSC	
Camera Type		PTZ		Dome
Indoor / Outdoor		Outdoor	Indoor	Outdoor
Series		WV-CW590 Series	WV-CS580 Series	WV-CW630 Series WV-CW500 Series
Model Name (TV System)		WV-CW594 WV-CW594A	WV-CS584	WV-CW634S (Surface mount) WV-CW634F (Flush mount) WV-CW504S (Surface mount) WV-CW504F (Flush mount)
Appearance				
Sensor		1/4 type interline transfer CCD	1/4 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	700 TV lines or more
Super Dynamic / WDR / BLC		Super-D	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment		Auto Focus	Auto Focus	ABF
Built-in IR LED		—	—	—
Min. Illumination	Color	0.5 lx	0.5 lx	0.08 lx
	Color (Sens up)	0.016 lx	0.016 lx	0.0024 lx
	B/W	0.04 lx	0.04 lx	0.008 lx
	B/W (Sens up)	0.0013 lx	0.0013 lx	0.00024 lx
Lens		f= 3.3 to 119 mm, F1.4	f= 3.3 to 119 mm, F1.4	f= 3.8 to 8.0 mm, F1.4
Angular field of view		H: 1.7° (Tele) to 60.2° (Wide) V: 1.3° (Tele) to 46.0° (Wide)	H: 1.7° (Tele) to 60.2° (Wide) V: 1.3° (Tele) to 46.0° (Wide)	H: 33.6° (Tele) to 74.9° (Wide) V: 25.2° (Tele) to 55.7° (Wide)
Adjusting Angle	Pan	360° endless	360° endless	±170°
	Tilt	−5° to 185° (horizontal - vertical - horizontal)	−5° to 185° (horizontal - vertical - horizontal)	±75°
	Optical Zoom	36x	36x	2.1x
	Digital Zoom	20x	20x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change / Object (remove/ left behind)
Camera title (OSD)		Yes	Yes	Yes
External I/O		4 inputs (ALARM IN 1 - ALARM IN 4) 2 outputs (ALARM / AUX1, BW / AUX2)	4 inputs (ALARM IN 1 - ALARM IN 4) 2 outputs (ALARM / AUX1, BW / AUX2)	—
Vandal Resistant		—	—	IEC 60068-2-75 test Eh, 50J
Water and Dust Resistance		IP66	—	IP66
Dehumidification device		—	—	Yes
Temperature		−50 °C to 50 °C	−10 °C to 50 °C	−10 °C to 60 °C −30 °C to 60 °C (With optional heater)
Power Source		24 V AC	24 V AC	24 V AC or 12 V DC
Other Functions		WV-CW594A : Rain wash coating	—	—
Options	Smoke Dome Cover	—	Smoke Dome Cover WV-CS4SA 	Smoke Dome Cover WV-CW4SA 
	Bracket	Wall Mount Bracket WV-Q122A 	Ceiling Mount Bracket WV-Q105A 	Mount Bracket (for WV-CW634F) WV-Q115A 
			Embedded Ceiling Mount Bracket WV-Q126A 	
		Ceiling Mount Bracket WV-Q121B 	Pendant Mount Bracket WV-Q117A 	Embedded Ceiling Mount Bracket WV-Q169A 
			Wall Mount Bracket WV-Q118B 	
	Heater Unit	—	—	Heater Unit WV-CW5HA 









Analog Camera Comparison chart			NTSC			
Camera Type			Dome			
Indoor / Outdoor			Outdoor		Indoor	
Series			WV-CW334S	WV-CW364S	WV-CF600 Series	
Model Name (TV System)					WV-CF624	WV-CF634
Appearance						
Sensor			1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal		540 TV lines	540 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC			BLC	BLC	Super-D	Super-D
Day/Night			Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment			Manual	Manual	Manual	ABF
Built-in IR LED			—	—	—	—
Min. Illumination	Color		0.6 lx	0.6 lx	0.08 lx	0.08 lx
	Color (Sens up)		—	—	0.0025 lx	0.0025 lx
	B/W		0.4 lx	0.05 lx	0.008 lx	0.008 lx
	B/W (Sens up)		—	—	0.0003 lx	0.0003 lx
Lens			f= 2.8 to 10 mm, F1.3	f= 2.8 to 10 mm, F1.3	f= 2.8 to 10 mm, F1.4	f= 2.8 to 10 mm, F1.4
Angular field of view			H: 27.39° (Tele) to 100.18° (Wide) V: 20.45° (Tele) to 73.33° (Wide)	H: 27.39° (Tele) to 100.5° (Wide) V: 20.45° (Tele) to 73.51° (Wide)	H: 27.6° (Tele) to 100.8° (Wide) V: 20.7° (Tele) to 73.8° (Wide)	H: 27.6° (Tele) to 100.8° (Wide) V: 20.7° (Tele) to 73.8° (Wide)
Adjusting Angle	Pan		180° to −140°	180° to −140°	180° to −170°	180° to −170°
	Tilt		±75°	±75°	±90°	±90°
	Optical Zoom		3.6x	3.6x	3.6x	3.6x
	Digital Zoom		—	—	2x	2x
VMD (Video Motion Detection)			—	—	Yes	Yes
i-VMD (Intelligent VMD)			—	—	Scene Change	Scene Change
Camera title (OSD)			—	—	Yes	Yes
External I/O			—	—	—	—
Vandal Resistant			IEC 60068-2-75 test Eh, 50J	IEC 60068-2-75 test Eh, 50J	—	—
Water and Dust Resistance			IP66	IP66	—	—
Dehumidification device			Yes	Yes	—	—
Temperature			−10 °C to 50 °C −30 °C to 50 °C (With optional heater)	−10 °C to 50 °C −30 °C to 50 °C (With optional heater)	−10 °C to 50 °C	−10 °C to 50 °C
Power Source			24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC
Other Functions			—	—	—	—
Options	Smoke Dome Cover		Smoke Dome Cover WV-CW4SA 	Smoke Dome Cover WV-CW4SA 	—	—
	Bracket		Embedded Ceiling Mount Bracket WV-Q169A 	Embedded Ceiling Mount Bracket WV-Q169A 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 
	Heater Unit		Heater Unit WV-CW5HA 	Heater Unit WV-CW5HA 	—	—






Analog Camera Comparison chart			NTSC		
Camera Type		Dome			BOX
Indoor / Outdoor		Indoor			Outdoor
Series		WV-CF344	WV-CF354	WV-CF300L Series	WV-CW300L Series
Model Name (TV System)				WV-CF314L	WV-CW314L
Appearance					
Sensor		1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC		BLC	BLC	BLC	BLC
Day/Night		Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
Focus Adjustment		Focus Assist	ABF	ABF	ABF
Built-in IR LED (Irradiation distance)		—	—	Yes (20 m)	Yes (50 m)
Min. Illumination	Color	0.08 lx	0.08 lx	0.08 lx	0.08 lx
	Color (Sens up)	0.0025 lx	0.0025 lx	0.0025 lx	0.0025 lx
	B/W	0.05 lx	0.05 lx	0 lx (with IR LED)	0 lx (with IR LED)
	B/W (Sens up)	0.0016 lx	0.0016 lx	—	—
Lens		f= 2.8 to 10 mm, F1.4	f= 2.8 to 10 mm, F1.4	f= 2.8 to 10 mm, F1.3	f= 2.8 to 10 mm, F1.3
Angular field of view		H: 27.6° (Tele) to 100.3° (Wide) V: 20.7° (Tele) to 73.5° (Wide)	H: 27.8° (Tele) to 100.3° (Wide) V: 20.9° (Tele) to 73.4° (Wide)	H: 27.65° (Tele) to 100.8° (Wide) V: 20.75° (Tele) to 73.85° (Wide)	H: 27.65° (Tele) to 100.8° (Wide) V: 20.75° (Tele) to 73.85° (Wide)
Adjusting Angle	Pan	180° to −170°	180° to −170°	180° to −170°	—
	Tilt	±90°	±90°	0 to 75 °	—
	Optical Zoom	3.6x	3.6x	3.6x	3.6x
	Digital Zoom	2x	2x	2x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change	Scene Change
Camera title (OSD)		Yes	Yes	Yes	Yes
External I/O		—	—	—	—
Vandal Resistant		—	—	—	—
Water and Dust Resistance		—	—	—	IP66
Dehumidification device		—	—	—	—
Temperature		−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C
Power Source		24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC
Other Functions		—	—	—	—
Options	Smoke Dome Cover	—	—	—	—
	Bracket	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	—	—
	Heater Unit	—	—	—	—









Analog Camera Comparison chart		NTSC			
Camera Type		BOX			
Indoor / Outdoor		Indoor			
Series		WV-CP630 Series	WV-CP600 Series	WV-CP300 Series	
Model Name (TV System)		WV-CP630 WV-CP634	WV-CP620 WV-CP624	WV-CP300 WV-CP304	WV-CP310 WV-CP314
Appearance					
Sensor		1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	700 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC		Super-D	Super-D	BLC	BLC
Day/Night		Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
Focus Adjustment		ABF	Focu Assist	Focu Assist	Focu Assist
Built-in IR LED		—	—	—	—
Min. Illumination	Color	0.08 lx	0.08 lx	0.08 lx	0.08 lx
	Color (Sens up)	0.003 lx	0.0025 lx	0.0025 lx	0.0025 lx
	B/W	0.008 lx	0.008 lx	0.05 lx	0.008 lx
	B/W (Sens up)	0.0003 lx	0.00025 lx	0.0016 lx	0.00025 lx
Lens		optional	optional	optional	optional
Angular field of view		—	—	—	—
Adjusting Angle	Pan	—	—	—	—
	Tilt	—	—	—	—
	Optical Zoom	—	—	—	—
	Digital Zoom	2x	2x	2x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change	Scene Change
Camera title (OSD)		Yes	Yes	Yes	Yes
External I/O		ALARM IN : 1 (OFF / ALARM / VMD PERMIT / BW) ALARM OUT : 1 (OFF / ALARM / BW)	Alarm IN 1pc, Alarm OUT 1pc	—	—
Vandal Resistant		—	—	—	—
Water and Dust Resistance		—	—	—	—
Dehumidification device		—	—	—	—
Temperature		−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C
Power Source		WV-CP630 : 120 V AC WV-CP634 : 12 V DC or 24 V AC	WV-CP620 : 120 V AC WV-CP624 : 12 V DC or 24 V AC	WV-CP300 : 120 V AC WV-CP304 : 12 V DC or 24 V AC	WV-CP310 : 120 V AC WV-CP314 : 12 V DC or 24 V AC
Other Functions		—	—	—	—
Options	Smoke Dome Cover	—	—	—	—
	Bracket	—	—	—	—
	Heater Unit	—	—	—	—

Analog Camera Comparison chart			PAL		
Camera Type		PTZ		Dome	
Indoor / Outdoor		Outdoor	Indoor	Outdoor	
Series		WV-CW590 Series	WV-CS580 Series	WV-CW630 Series	WV-CW500 Series
Model Name (TV System)		WV-CW590 / WV-CW590A WV-CW594 / WV-CW594A	WV-CS580 WV-CS584	WV-CW630S WV-CW634S	WV-CW500S WV-CW504S
Appearance		<div></div> <div>WV-CW590 WV-CW590A</div>	<div></div> <div>WV-CS580</div>	<div></div> <div>WV-CW630S</div>	<div></div> <div>WV-CW504S</div>
Sensor		1/4 type interline transfer CCD	1/4 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	700 TV lines or more	650 TV lines (color mode) 700 TV lines or more (BW mode)
Super Dynamic / WDR / BLC		Super-D	Super-D	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment		Auto Focus	Auto Focus	ABF	ABF
Built-in IR LED		—	—	—	—
Min. Illumination	Color	0.5 lx	0.5 lx	0.08 lx	0.1 lx
	Color (Sens up)	0.016 lx	0.016 lx	0.0024 lx	0.003 lx
	B/W	0.04 lx	0.04 lx	0.008 lx	0.01 lx
	B/W (Sens up)	0.0013 lx	0.0013 lx	0.00024 lx	0.0003 lx
Lens		f= 3.3 to 119 mm, F1.4	f= 3.3 to 119 mm, F1.4	f=3.8 to 8.0 mm, F1.4	f= 3.8 to 8.0 mm, F1.4
Angular field of view		H: 1.7° (Tele) to 60.2° (Wide) V: 1.3° (Tele) to 46.0° (Wide)	H: 1.7° (Tele) to 60.2° (Wide) V: 1.3° (Tele) to 46.0° (Wide)	H: 33.6° (Tele) to 74.9° (Wide) V: 25.1° (Tele) to 55.4° (Wide)	H: 35.6° (Tele) to 73.6° (Wide) V: 26.6° (Tele) to 53.4° (Wide)
Adjusting Angle	Pan	360° endless	360° endless	±170°	±170°
	Tilt	−5° to 185° (horizontal - vertical - horizontal)	−5° to 185° (horizontal - vertical - horizontal)	±75°	±75°
	Optical Zoom	36x	36x	2.1x	2.1x
	Digital Zoom	20x	20x	2x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change	Scene Change / Object (remove/ left behind)
Camera title (OSD)		Yes	Yes	Yes	Yes
External I/O		4 inputs (ALARM IN 1 - ALARM IN 4) 2 outputs (ALARM / AUX1, BW / AUX2)	4 inputs (ALARM IN 1 - ALARM IN 4) 2 outputs (ALARM / AUX1, BW / AUX2)	—	—
Vandal Resistant		—	—	IEC 60068-2-75 test Eh, 50J	IEC 60068-2-75 test Eh, 50J
Water and Dust Resistance		IP66	—	IP66	IP66
Dehumidification device		—	—	—	Yes
Temperature		−50 °C to 50 °C	−10 °C to 50 °C	−10 °C to 60 °C −30 °C to 60 °C (With optional heater)	−10 °C to 50 °C −30 °C to 50 °C (With optional heater)
Power Source		WV-CW590 / WV-CW590A : 220-240 V AC WV-CW594 / WV-CW594A : 24 V AC	WV-CS580 : 220-240 V AC WV-CS584 : 24 V AC	WV-CW630S : 220-240 V AC WV-CW634S : 24 V AC or 12 V DC	WV-CW500S : 220-240 V AC WV-CW504S : 24 V AC or 12 V DC
Other Functions		WV-CW590A / WV-CW594A : Rain wash coating	—	—	—
Options	Smoke Dome Cover	—	Smoke Dome Cover WV-CS4SA 	Smoke Dome Cover WV-CW4SA 	Smoke Dome Cover WV-CW4SA 
	Bracket	Wall Mount Bracket WV-Q122A 	Ceiling Mount Bracket WV-Q105A 	Embedded Ceiling Mount Bracket WV-Q169A 	Embedded Ceiling Mount Bracket WV-Q169A 
		Ceiling Mount Bracket WV-Q121B 	Embedded Ceiling Mount Bracket WV-Q126A 		
			Pendant Mount Bracket WV-Q117A 		
		Wall Mount Bracket WV-Q118B 			
	Heater Unit	—	—	Heater Unit WV-CW5HA 	Heater Unit WV-CW5HA 

Analog Camera Comparison chart			PAL		
Camera Type			Dome		
Indoor / Outdoor			Outdoor		Indoor
Series			WV-CF600 Series		
Model Name (TV System)			WV-CW334S	WV-CW364S	<div>WV-CF614</div> <div>WV-CF634</div>
Appearance					<div></div> <div></div>
Sensor			1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal		540 TV lines	540 TV lines	650 TV lines
Super Dynamic / WDR / BLC			BLC	BLC	Super-D
Day/Night			Yes (Electrical)	Yes (ICR)	Yes (Electrical)
Focus Adjustment			Manual	Manual	ABF
Built-in IR LED			—	—	—
Min. Illumination	Color		0.6 lx	0.6 lx	0.08 lx
	Color (Sens up)		—	—	0.0025 lx
	B/W		0.4 lx	0.05 lx	0.008 lx
	B/W (Sens up)		—	—	0.0003 lx
Lens			f= 2.8 to 10 mm, F1.3	f= 2.8 to 10 mm, F1.3	f= 2.8 to 10 mm, F1.4
Angular field of view			H: 27.39° (Tele) to 100.18° (Wide) V: 20.45° (Tele) to 73.33° (Wide)	H: 27.39° (Tele) to 100.5° (Wide) V: 20.45° (Tele) to 73.51° (Wide)	H: 27.8° (Tele) to 100.3° (Wide) V: 20.9° (Tele) to 73.4° (Wide)
Adjusting Angle	Pan		180° to −140°	180° to −140°	180° to −170°
	Tilt		±75°	±75°	±90°
	Optical Zoom		3.6x	3.6x	3.6x
	Digital Zoom		—	—	2x
VMD (Video Motion Detection)			—	—	Yes
i-VMD (Intelligent VMD)			—	—	Scene Change
Camera title (OSD)			—	—	Yes
External I/O			—	—	—
Vandal Resistant			IEC 60068-2-75 test Eh, 50J	IEC 60068-2-75 test Eh, 50J	—
Water and Dust Resistance			IP66	IP66	—
Dehumidification device			Yes	Yes	—
Temperature			−10 °C to 50 °C −30 °C to 50 °C (With optional heater)	−10 °C to 50 °C −30 °C to 50 °C (With optional heater)	−10 °C to 50 °C
Power Source			24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC
Other Functions			—	—	—
Options	Smoke Dome Cover		Smoke Dome Cover WV-CW4SA 	Smoke Dome Cover WV-CW4SA 	<div>—</div> <div>—</div>
	Bracket		Embedded Ceiling Mount Bracket WV-Q169A 	Embedded Ceiling Mount Bracket WV-Q169A 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 
	Heater Unit		Heater Unit WV-CW5HA 	Heater Unit WV-CW5HA 	<div>—</div> <div>—</div>

Analog Camera Comparison chart			PAL				
Camera Type			Dome				
Indoor / Outdoor			Indoor				
Series			WV-CF344	WV-CF354	WV-CF374	WV-CF300L Series	
Model Name (TV System)						WV-CF304L	WV-CF314L
Appearance							
Sensor			1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal		650 TV lines	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC			BLC	BLC	BLC	BLC	BLC
Day/Night			Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment			Focus Assist	ABF	Focus Assist	Focus Assist	ABF
Built-in IR LED (Irradiation distance)			—	—	—	Yes (10m)	Yes (20m)
Min. Illumination	Color		0.08 lx	0.08 lx	0.08 lx	0.15 lx	0.08lx
	Color (Sens up)		0.0025 lx	0.0025 lx	0.0025 lx	0.005 lx	0.0025 lx
	B/W		0.05 lx	0.05 lx	0.008 lx	0 lx (with IR LED)	0 lx (with IR LED)
	B/W (Sens up)		0.0016 lx	0.0016 lx	0.0003 lx	—	—
Lens			f= 2.8 to 10 mm, F1.4	f= 2.8 to 10 mm, F1.4	f= 2.8 to 10 mm, F1.4	f= 2.8 mm, F1.3	f= 2.8 to 10 mm, F1.3
Angular field of view			H: 27.6° (Tele) to 100.3° (Wide) V: 20.7° (Tele) to 73.5° (Wide)	H: 27.8° (Tele) to 100.3° (Wide) V: 20.9° (Tele) to 73.4° (Wide)	H: 27.6° (Tele) to 100.8° (Wide) V: 20.7° (Tele) to 73.8° (Wide)	H: 101.5° V: 75°	H: 27.65° (Tele) to 100.8° (Wide) V: 20.75° (Tele) to 73.85° (Wide)
Adjusting Angle	Pan		180° to −170°	180° to −170°	180° to −170°	180° to −170°	180° to −170°
	Tilt		±90°	±90°	±90°	0 to 75 °	0 to 75 °
	Optical Zoom		3.6x	3.6x	3.6x	—	3.6x
	Digital Zoom		2x	2x	2x	2x	2x
VMD (Video Motion Detection)			Yes	Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)			Scene Change	Scene Change	Scene Change	Scene Change	Scene Change
Camera title (OSD)			Yes	Yes	Yes	Yes	Yes
External I/O			—	—	—	—	—
Vandal Resistant			—	—	—	—	—
Water and Dust Resistance			—	—	—	—	—
Dehumidification device			—	—	—	—	—
Temperature			−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C
Power Source			24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC
Other Functions			—	—	—	—	—
Options	Smoke Dome Cover		—	—	—	—	—
	Bracket	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	Embedded Ceiling Mount Bracket (Sail white) WV-Q174B 	—	—	
	Heater Unit	—	—	—	—	—	

Analog Camera Comparison chart		PAL			
Camera Type		BOX			
Indoor / Outdoor		Outdoor			Indoor
Series		WV-CW300L Series			WV-CP630 Series
Model Name (TV System)		WV-CW304L	WV-CW314L	WV-CW324L	WV-CP630 WV-CP634
Appearance					 
Sensor		1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	650 TV lines	700 TV lines
Super Dynamic / WDR / BLC		BLC	BLC	BLC	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment		Focus Assist	ABF	ABF	ABF
Built-in IR LED		Yes (20m)	Yes (50m)	Yes (50m)	—
Min. Illumination	Color	0.15 lx	0.08 lx	0.08 lx	0.08 lx
	Color (Sens up)	0.005 lx	0.0025 lx	0.0025 lx	0.003 lx
	B/W	0 lx (with IR LED)	0 lx (with IR LED)	0 lx (with IR LED)	0.008 lx
	B/W (Sens up)	—	—	—	0.0003 lx
Lens		f= 2.8 mm, F1.3	f= 2.8 to 10 mm, F1.3	f= 9 to 22 mm, F1.3	optional
Angular field of view		H: 101.5° V: 75°	H: 27.65°(Tele) to 100.8°(Wide) V: 20.75°(Tele) to 73.85°(Wide)	H: 12.41°(Tele) to 30.95°(Wide) V: 9.33°(Tele) to 23.46°(Wide)	—
Adjusting Angle	Pan	—	—	—	—
	Tilt	—	—	—	—
	Optical Zoom	—	3.6x	2.4x	—
	Digital Zoom	2x	2x	2x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change	Scene Change
Camera title (OSD)		Yes	Yes	Yes	Yes
External I/O		—	—	—	ALARM IN : 1 (OFF / ALARM / VMD PERMIT / BW) ALARM OUT : 1 (OFF / ALARM / BW)
Vandal Resistant		—	—	—	—
Water and Dust Resistance		IP66	IP66	IP66	—
Dehumidification device		—	—	—	—
Temperature		−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C
Power Source		24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	WV-CP630 : 220-240 V AC WV-CP634 : 24 V AC or 12 V DC
Other Functions		—	—	—	—
Options	Smoke Dome Cover	—	—	—	—
	Bracket	—	—	—	—
	Heater Unit	—	—	—	—

Analog Camera Comparison chart		PAL			
Camera Type		Box			
Indoor / Outdoor		Indoor			
Series		WV-CP600 Series		WV-CP300 Series	
Model Name (TV System)		WV-CP600 WV-CP604	WV-CP620 WV-CP624	WV-CP300 WV-CP304	WV-CP310 WV-CP314
Appearance					
					
Sensor		1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC		Super-D	Super-D	BLC	BLC
Day/Night		Yes (Electrical)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
Focus Adjustment		Focu Assist	Focu Assist	Focu Assist	Focu Assist
Built-in IR LED		—	—	—	—
Min. Illumination	Color	0.08 lx	0.08 lx	0.08 lx	0.08 lx
	Color (Sens up)	0.0025 lx	0.0025 lx	0.0025 lx	0.0025 lx
	B/W	0.05 lx	0.008 lx	0.05 lx	0.008 lx
	B/W (Sens up)	0.002 lx	0.00025 lx	0.0016 lx	0.00025 lx
Lens		optional	optional	optional	optional
Angular field of view		—	—	—	—
Adjusting Angle	Pan	—	—	—	—
	Tilt	—	—	—	—
	Optical Zoom	—	—	—	—
	Digital Zoom	2x	2x	2x	2x
VMD (Video Motion Detection)		Yes	Yes	Yes	Yes
i-VMD (Intelligent VMD)		Scene Change	Scene Change	Scene Change	Scene Change
Camera title (OSD)		Yes	Yes	Yes	Yes
External I/O		Alarm IN 1pc, Alarm OUT 1pc	Alarm IN 1pc, Alarm OUT 1pc	—	—
Vandal Resistant		—	—	—	—
Water and Dust Resistance		—	—	—	—
Dehumidification device		—	—	—	—
Temperature		−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C	−10 °C to 50 °C
Power Source		WV-CP600 : 220-240 V AC WV-CP604 : 12 V DC or 24 V AC	WV-CP620 : 220-240 V AC WV-CP624 : 12 V DC or 24 V AC	WV-CP300 : 220-240 V AC WV-CP304 : 12 V DC or 24 V AC	WV-CP310 : 220-240 V AC WV-CP314 : 12 V DC or 24 V AC
Other Functions		—	—	—	—
Options	Smoke Dome Cover	—	—	—	—
	Bracket	—	—	—	—
	Heater Unit	—	—	—	—

Digital Video Recorders

16ch Real-time H.264 Digital Disk Recorder

WJ-HD716

(120 V AC: NTSC, 220 V - 240 V AC: PAL)

16ch H.264 Digital Disk Recorder

WJ-HD616

(120 V AC: NTSC, 220 V - 240 V AC: PAL)



WJ-HD716

Optional Accessories

HDD Canister

WJ-HDU40K

RAID Board

WJ-HDB601,
WJ-HDB601A

Built-in DVD Drive

WJ-HDB611,
WJ-HDB611A

Hard Disk Extension Unit

WJ-HDE400



SD5Link
SuperDynamic

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE





















- Dual HDMI Full HD 1080i (1,920 x 1,080) display
- H.264 (High Profile) codec reduces bandwidth by up to 40 % compared with MPEG-4
- **SD5Link (Super Dynamic 5 Link)** with i-VMD (intelligent-Video Motion Detection) alarm
- Real-time recording (WJ-HD716) and 16ch 2x monitors real-time live
- Up to 31 HDD slots with 4 HDD slots in the main unit and three WJ-HDE400 optional Extension Units each with 9 HDD slots

Lenses		
1/3 type Variable Focal Lenses	2× Variable WV-LZA61/2S 3.8 mm to 8 mm F1.4 (wide) F1.8 (tele)	
	8× Variable WV-LZ62/8S 5 mm to 40 mm F1.6 (wide) F1.9 (tele)	
	Focal Length	3.8 mm to 8 mm
	Iris Type	Automatic
Optical Filter Size		M30.5 mm, P = 0.5 mm
Mount		Special C-Mount, (CS-Mount, 1-32UN)
Dimensions (W × H × D)		60.5 mm × 53 mm × 45.3 mm

		5 mm to 40 mm
		Automatic
		None
		Special C-Mount, (CS-Mount, 1-32UN)
		61 mm × 52 mm × 65 mm

Lens Selection Chart

The examples displayed below are monitor images captured with 1/3 type cameras, illustrating the relationship between lens focal length and the capture image. Use these images to select the type of lens best suited to your application.

Lens and Focal Length		Distance between Camera and Subject				
		2 m	4 m	6 m	8 m	10 m
1/3 type Lens	2× Variable Focal WV-LZA61/2S (3.8 mm to 8 mm)	 Ratio 84% 2.5(W) m × 1.9(H) m	 Ratio 42% 5.1(W) m × 3.8(H) m	 Ratio 28% 7.6(W) m × 5.7(H) m	 Ratio 21% 10.1(W) m × 7.6(H) m	 Ratio 17% 12.6(W) m × 9.5(H) m
		 Ratio 178% 1.2(W) m × 0.9(H) m	 Ratio 89% 2.4(W) m × 1.8(H) m	 Ratio 59% 3.6(W) m × 2.7(H) m	 Ratio 44% 4.8(W) m × 3.6(H) m	 Ratio 36% 6.0(W) m × 4.5(H) m
	8× Variable Focal WV-LZ62/8S (5 mm to 40 mm)	 Ratio 111% 1.9(W) m × 1.4(H) m	 Ratio 56% 3.8(W) m × 2.9(H) m	 Ratio 37% 5.8(W) m × 4.3(H) m	 Ratio 28% 7.7(W) m × 5.8(H) m	 Ratio 22% 9.6(W) m × 7.2(H) m
		 Ratio 889% 0.24(W) m × 0.18(H) m	 Ratio 444% 0.48(W) m × 0.36(H) m	 Ratio 296% 0.72(W) m × 0.54(H) m	 Ratio 222% 0.96(W) m × 0.72(H) m	 Ratio 178% 1.2(W) m × 0.9(H) m

* Because of monitor over scan, actual images seen may differ slightly from those shown here.

* "Capture image" is the area included in the image by the camera. "Ratio" determines the proportion of this area occupied by the subject in the image that appears on the monitor (Height).

* If the subject fills the whole screen with the ratio set at 100%, reducing the ratio to 50% will make the subject only half as large.

* When the distance from the camera to the subject is 10 m or more, set both distance to subject and lens focal length to 10x.