Caution for installation and usage

1. Precautions for different DVR

Please use it with the corresponding PoC DVR. With PoC(Power over Coax) function, the DVR is able to supply camera with the power. And with CoC(Control over Coax) function, the DVR is able to send RS485 to the camera

- PoC DVR: When connecting to WEBGATE's PoC DVR, only the coaxial cable is needed between the camera and DVR to supply power and send RS485.
- Non PoC DVR: When connecting to Non PoC DVR, the user must use repeater, RP101P, to connect to the camera (but RP101P needs additional adapter)

2. Check Frame rate setting based on power frequency

Set Frame rate to 25Hz if your region is using 50Hz(PAL) power frequency, or set to 30Hz for 60Hz(NTSC) region. (OSD: System \rightarrow Frame rate).

3. Focus setup

To avoid losing focus at night time, please make sure to set up focus as follows

- 1) Open the camera cover, and connect the OSD remote controller to the camera.
- Press [SET] on the OSD remote controller and select "FOCUS ADJ" to enable "Adjust Focusing" mode.
- 3) Use the lens' lever to adjust zoom and focus. (XCheck the Focus Gauge)
- 4) End the "Adjust Focusing" mode by pressing the [SET] on the OSD remote controller.
- What is Focus Gauge?

When the user is manually adjusting the focus, the camera shows graphical bar to have the user look at the focus visually. When the yellow and green bar meets together, that's where the camera is focused.

4. Shutter mode setup based on installation environment

- INDOOR: Controls brightness for the best video quality at indoor environment.
- OUTDOOR: Controls brightness for the best video quality at outdoor environment.
- INDOOR/OUTDOOR-ANTI BLUR: Improves the motion blurring phenomenon than Indoor/Outdoor mode under dark environment but the brightness decreases relatively.
- Do not expose this camera to rain or moisture to prevent malfunction, fire and shock hazard.
- Please contact to qualified service personnel in case of product damage. Do not attempt to repair product by yourself.
- 7. Please avoid external shock and vibration on the product.
- Do not install product under excessive heat or cold environment. (recommended operation temperature is -10°C~50°C)
- 9. Do not target lens to the sun. Image sensor might be damaged
- 10. Do not open the product under any circumstances, it could void the warranty. Natural disaster like lightning, flood will need charge for repair.

Feature

PoC / CoC

PoC(Power over Coax) : WEBGATE PoC DVR supplies camera with power through connected coaxial cable.

CoC(Control over Coax): WEBGATE PoC DVR supplies camera with RS485 without additional communication line. Allowing OSD control, zoom, focus, f/w upgrade and more. ** All PoC supported cameras support CoC function as well.

2MP, Full HD high resolution picture quality

Full HD(1920x1080) provides 6 times higher resolution than SD level camera, and more clear video image can be achieved through 1/3", 2Megapixel progressive CMOS.

High performance under low light environment

High performance quality can be achieved under low light environment by optimizing the image handling technology on CMOS sensor

(B/W: 0.0005 Lux / Color: 0.2Lux@50IRE, F.1.4, 3100K, DSS OFF)

Indoor/Outdoor function

Minimizes the motion blur of object from slowly moving person(Indoor) to fast moving vehicle(outdoor) by optimizing the signal processing and controls brightness automatically to perform the best video image

3D-DNR

3D-DNR function efficiently removes video noise in dark environment, and shows clear image as a result.

True Day & Night function

Camera senses the surrounding brightness automatically, and insert/remove the IR-CUT filter to get the best sensitivity performance.

WDR/BLC/ACE/HLC

Under backlight condition, you can select the most suitable function among WDR, BLC, ACE and HLC.

DEFOG Function

Provides clear and undistorted images from fog, dust, sea fog and any bad weather conditions.

Auto Focusing function (AF models)

Auto Focusing function performs Correct and Quick focusing of camera by just one click. After the power is turned on, camera can judge reasonable brightness to execute Auto Focusing. If the environment is bright enough, it performs Auto focusing, meanwhile it keeps previous focus condition if the environment is dark.

Adjust Focusing function

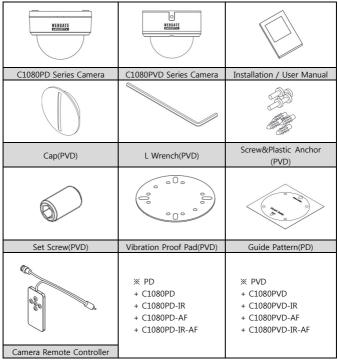
Even though D&N lens is in use, focus might be distorted in night time. To prevent this problem, camera supports Adjust Focusing function. After use this function, you can get clear video image both daytime and night time.

Privacy support

Camera can support up to 15 privacy masking areas.

Supplied accessories

Please check if all the supplied accessories are included.



Product description



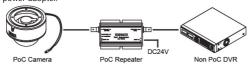
No	Name	
1	Dome cover	
2	Camera	
3	Video Out Port(PoC,CoC)	

Camera installation

- 1. How to connect it with the WEBGATE PoC DVR
- Does not need any additional power adapter. Just connect coaxial cable higher than 4C-HFBT to the DVR.



- 2. How to connect it with the conventional DVR
- Connect the PoC repeater, RP101P, between the camera and DVR. And put additional power adopter.



How to Set up Auto Focus

Manual Focus Model: C1080PD / C1080PVD / C1080PD-IR / C1080PVD-IR

To prevent out focus due to weather or environmental changes, please follow the bottom instruction.

- 1) Press [SET] on the OSD remote controller and select "FOCUS ADJ" to enable "Adjust Focusing" mode.
- 2) Use the lens' lever to adjust zoom and focus.
- 3) End the "Adjust Focusing" mode by pressing the [SET] on the OSD remote controller.

Auto Focus Model: C1080PD-AF / C1080PVD-AF / C1080PD-IR-AF / C1080PVD-IR-AF

- 1) Press [SET] on the OSD remote controller and select "FOCUS ADJ" to enable "Adjust Focusing" mode.
- 2) Hit "MANUAL", go into "Manual Focusing mode".
- 3) Hit "Tele" or "Wide" button to adjust.
- 4) Press [SET] on the OSD remote controller and to end Manual Focusing Mode.
- 5) Select "CORRECT AF" and hit [SET] to run "Auto Focusing function".

<Note>

 When adjusting focus, AF Models(C1080PBL-IR18-AF, C1080PBL-IR48-AF) will automatically run "Adjust Focusing function".

How to use OSD remote controller

- 1. CVBS output
- Connect CCTV monitor to OSD remote controller's CVBS outport to check the image.
 (SD quality)
- When images stop coming out, press any button on the OSD remote controller to see the image again.
- 2. OSD Control
- Press OSD remote controller to control camera's OSD menu after connected.

Notice for Auto Focus operation

Following conditions might make failure of auto focusing .

- 1. When there are changes of the scene while Auto Focus is working(sudden movement, appearance or disappearance).
- 2. When there are sudden change of the brightness.
- 3. When shooting low contrast image.
- 4. When there is strong light in the scene.
- 5. When there is foreign substance on the lens.
- If auto focusing is failed, please try to adjust focus manually or try auto focus again with the scene which have strong contrast.

Cautions when you connect BNC cable

The impedance of BNC connector should be 75Ω .

If 50Ω connector is used, the transmission distance will be reduced approx. 10m.

Caution in cable selection

The maximum transmission distance of HD-SDI will vary depending on cable manufacturer and installation environment. Please refer to the below table to select suitable coaxial cable.

Cable Type	Distance	Details
5C2V	Approx. 90M	Analogue Cable
4C-FB(T), 4C-HFB(T), RG59	Approx. 140M	High-expansion foam cable,recommends double(or triple) shielded cable
5C-FB(T), 5C-HFB(T), L-6CHD, RG6	Approx. 180M	Customized HD-SDI Cable

How to upgrade F/W by using CoC(RS485)

- 1. Connect WEBGATE DVR with camera.
- 2. Run [HD-SDI Camera Network Upgrader] and select [CoC] on [Serial Port].
 - PC and DVR must be connected through network.
- 3. Select the desired camera's channel, then write down that DVR's IP address.
 - HD camera upgrade program and F/W can be downloaded from the website. (http://www.webgateinc.com/)

4. Insert DVR's Port, User ID, Password and press "Connect" to log-in to the DVR.



- Select [ON] in Camera OSD Control, then press E,L,R,U,D buttons to check camera's OSD control.
- When OSD control is not available, check DVR and camera's configuration.
- 6. Select the F/W and press "Load" to upgrade the camera. The camera will reboot.
- Images will be stopped until the boot is complete.
- When the upgrade is finished, the DVR and CMS (Control CenteR) can be used to remotely change the camera's settings.

<Note>

1) When upgrading F/W, the setting will be reset.

How to use OSD menu

OSD menu function

Press [SET] on the remote controller to show OSD configuration menu.

- If OSD menu is not closed, it will be closed automatically in 1 minute.

(Changed configuration value will not be saved)

- Bold font with underline means factory default.

OSD MENU		Function	
FOCUS ADJ This mode is on		ly enabled in manual lens model. This function prevents	
	out-focus during day/night.		
LENS	DC Only in AF models : focus can be adjusted eitl		
		automatically or manually.	
		- PWR-ON AF : After power is turned on, camera	
		judges the ambient brightness. If the brightness is	
		enough, it performs Auto Focusing automatically, but	
		if the brightness is not enough, it keeps the previous	

		f
		focus condition.
		- Correct AF : Camera performs focusing over the full-
		range (it takes max. 40seconds)
		- Quick AF : If the angle of view and focus is roughly
		adjusted condition, Quick AF performs fast focusing.
		But, if the focus is vague condition, Quick AF may
		not show good result. (it takes max. 10seconds)
		- Manual : Move joystick to up(Tele), down(Wide),
		left(Near),right(Far) to adjust angle and focus
		manually. When controlling "Zoom", "Zoom
		Tracking" function will run automatically. This
		function only works if the camera is focused
		correctly
DAY	Color	Maintains Color(Day) mode regardless brightness.
&	B&W	Maintains B&W(Night) mode regardless brightness.
NIGHT	<u>Auto</u>	In accordance with brightness, camera switches Color
		mode and B&W mode automatically.
		- LUX LEVEL(LOW, MIDDLE, HIGH) : This value is the
		standard for Day & Night switching. If high is
		selected, camera will turn to Night(B/W) mode at
		higher LUX level than MIDDLE or LOW.
		- ANTI HUNT(LOW, MIDDLE, HIGH) : This value is the
		standard for threshold of Day & Night switching.
		Higher setting value will reduce the flickering by IR-
		CUT filter switching caused from misjudgment.
		- DELAY TIME(3~30sec) : Judgment period for Day &
		Night switching
D-EXPOSURE	BRIGHTNESS	Adjust the brightness of image.
/	(8 , 0~20)	The more High value it has, the more bright image it
N-EXPOSURE	(<u>0</u> , 0 · · 20)	shows
IN EXI OSURE	SHUTTER	- INDOOR : controls brightness to show the best video
	SHOTTER	quality at indoor environment.
		- OUTDOOR : controls brightness to show the best
		video quality at outdoor environment.
		- INDOOR-ANTI BLUR : It shows better anti-blur
		performance at dark indoor environment, but the
		brightness level decrease a little.
		- OUTDOOR-ANTI BLUR : It shows better anti-blur
		performance at dark outdoor environment, but the
		brightness level decrease a little.
		- MANUAL : It fixes shutter speed within 1/30 ~
		1/60000.

	ANTI-FLICKER	Removes Flicker problem due to the discordance of
	DSS	light frequency. During night or low light environment, incrase the
	(AUTO , OFF,	scale factors to maintainet the clear image. However,
	x2~x10)	larger scales will have motion blurring effect on
	AL AIO)	moving objects. In AUTO mode, DSS is ON when there
		are no motion detection. And when the camera detects
		a movement, DSS mode is automatically turned off for
		better quality.
	AGC	It will amplify video gain according to the light
	(4, 1~10)	condition, but it will also increase noise level.
COLOR	AWB	- AUTO : This mode automatically adjusts color white
		balance between 1,700°K ~ 11,000°K.
		- PRESET : Shoot a white paper in front of camera and
		press MENU button then white balance working will
		stop suitable for the condition. You must do this
		process again if light condition is changed.
		- MANUAL : User can select color temperature among
		3300°K, 4300°K, 7600°K and adjust the details by KELVIN, R-GAIN and B-GAIN value.
	CLIDONAA	
	CHROMA (10 , 0~20)	Adjust Chroma level.
IMAGE	SHARPNESS	Adjust sharpness. The higher value will show more
IIVIAGE	(5 , 0~10)	clear video image
	H-MIRROR	Mirror image. Left and right will be reversed
	V-MIRROR	Flip image. Up and down will be reversed.
	Digital ZOOM	Zoom image by 16 steps. (1~16)
	PRIVACY	This is for privacy zone masking
	FINIVACI	- ZONE NO : Supports total 15 areas (1~15)
		- ZONE OP : Whether to use or not of selected area
		- X, Y-POS : Set the X,Y start position of an area
		- X, Y-SIZE : Set the width and height of an area
		- COLOR(WHT,YEL,CYN,GRN,MAG,RED,BLU,BLK) : Select
		color for masking.
		- TRANS(0~4) : Set transparency of masking.
	SHADING	Before execute the SHADING function, shoot a white
	DET	paper in front of the camera, and do SHADING DET. If
		not, abnormal video might be output.
	SHADING	It compensates the difference of light caused by lens.
		To use this function, you should run Shading DET
		function first at System menu.

- AUTO : Automatically corrects the images MANUAL : can be set to LOW, MIDDLE, HIGH COLOR BAR Prints "COLOR BAR" for testing. (2 types) If there are no action, it will close in one minuate. WDR This 3D backlight compensation function allows bright and dark area to be seen clearly together WDR WGT(0-4) : Select image mix ratio. The higher value, the bright part of the image appear more clearly BLC Back light compensation function BLC LEVEL(LOW, MIDDLE, HIGH) : Set BLC level BLC POS-X, Y : Set X, Y start position BLC SIZ-X,Y : Set Width and Height size MASK : If there is very bright portion inside BLC area, this portion can be removed from the calculation of BLC compensation. This brightness level for masking can be decided by below MASK LEVEL MASK LEVEL(0-10) : Set brightness level for Masking. HLC HIGH Light Compensation. If there is very bright portion inside a scene, camera can mask the portion, and the portion is removed from the calculation for exposure control LEVEL(5, 0-10) : Set the brightness level for masking Color : Set masking color ACE (ON, OFF) Drightness of dark areas. DNR (LOW, MIDDLE, HIGH) Reduce image noise under low light condition FRAMERATE (25Hz, 30Hz) Power frequency 60Hz(NTSC) : 30Hz(fps) video output Power frequency 50Hz(PAL) : 25Hz(fps) video output Po		DEFOG	Images can be corrected on Fog, Dust environment.		
COLOR BAR Prints "COLOR BAR" for testing. (2 types) If there are no action, it will close in one minuate.			- AUTO : Automatically corrects the images.		
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- BLC POS-X, Y: Set X, Y start position BLC SIZ-X,Y: Set Width and Height size MASK: If there is very bright portion inside BLC area, this portion can be removed from the calculation of BLC compensation. This brightness level for masking can be decided by below MASK LEVEL MASK LEVEL(0~10): Set brightness level for Masking. HLC High Light Compensation. If there is very bright portion inside a scene, camera can mask the portion, and the portion is removed from the calculation for exposure control LEVEL(5, 0~10): Set the brightness level for masking Color: Set masking color ACE (ON, OFF) DNR (LOW, MIDDLE, HIGH) Reduce image noise under low light condition Reduce image noise under low light condition Power frequency 60Hz(NTSC): 30Hz(fps) video output Power frequency 50Hz(PAL): 25Hz(fps) video output SYSTEM MODEL Displays model name CAM ID Max. 8 digits for camera name. Supports alphanumeric and some special characters RS485 ID Set ID for RS485 VERSION Displays firmware version VIDEO Full-Scale(BT 709), Comp-Scale(BT 601) support RESOLUTION Set output resolution (1080p/720p). IR-LED CONJOFF) - Controls IR-LED Smart-IR: When there are no motion detected. It keeps the image at the brightest. When the camera					
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keeps the image at the brightest. When the camera		IR-LED	- Controls IR-LED.		
		(<u>ON</u> ,OFF)	- Smart-IR : When there are no motion detected. It		
detects a motion, it automatically controls its shutter			keeps the image at the brightest. When the camera		
			detects a motion, it automatically controls its shutter		

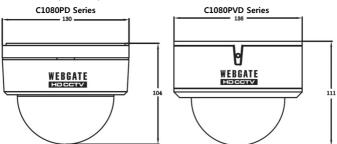
		speed to aquire the best image.
	BAUDRATE	Set RS485 communication speed.
	(9600, 57600)	
	RESET	Makes all setting values to factory default condition
EXIT	SAVE&EXIT	Save configuration and exit menu.
	EXIT	Without saving configuration, exit menu.
		If there is no further action in menu, after 1 minute,
		OSD menu will exit without saving changes.

Product Specification

Model C		C1080PD, C1080PVD, C1080PD-IR, C1080PVD-IR C1080PD-AF, C1080PVD-AF, C1080{D-IR-AF,		
		C1080PVD-IR-AF		
Video				
Sensor Type		1/3", 2.1Megapixel CMOS		
Total Pixels		1920(H) x 1080(V) = 2.1M pixels		
Scanning Syst	tem	Progressive Scan		
Min	B/W	0.0005Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)		
Illumination	Color	0.2Lux@50IRE, F1.4, 3100K, DSS(OFF), AGC(10)		
	Long	DC iris, 2.8mm~11mm, F1.4, IR Corrective Mega		
Lens	Lens	Pixel Lens		
	Туре	DC Auto Iris, Manual		
	Output	1(BNC 1.0 Vp-p, 75Ω)		
Video	Resolution	1080p 30fps / 25fps, 720p 25fps / 30fps		
Output	HD-SDI	SMPTE 292M compatible		
	Distance	approx. 180m of RG6, 140m of RG59		
	Control Method	DVR, CMS(Control Center),Remocon(5Push Bottons)		
	Filter	True Day & Night		
	AGC	1 ~ 10 steps		
	Mirror	Horizontal / Vertical		
	WDR	OFF, 0 ~ 4 setup		
Video	BLC	OFF, LOW, MIDDLE, HIGH		
Control	ACE	OFF, ON		
Control	DNR	OFF, LOW, MIDDLE, HIGH		
	DSS	AUTO, OFF, x2 ~ x10		
	White Balance	AUTO, PRESET, MANUAL		
	Defog	OFF, AUTO, MANUAL		
	FI	INDOOR, OUTDOOR, INDOOR-ANTI BLUR,		
	Electric Shutter	OUTDOOR-ANTI BLUR, MANUAL(12 steps),		

		ANTI-FLICKER	
Digital Zoom		0 ~ 16 steps	
Į	Lens Shading	OFF, ON	
I	HLC	0 ~ 10 steps	
Privacy		OFF/ON (15 Zones)	
Î	Smart IR	OFF/ON	
Control Interfa	ice	Upgrade Firmware / OSD Control	
Strobe for inte	rnal light	24PCS	
Camera Contro	ol Remocon	OSD Control / 5Push Bottons CVBS(NTSC/PAL-Auto change)	
Electricity			
	C1080PD C1080PVD	PoC(DC 24V ± 10%), 3W	
Power	C1080PD-AF C1080PVD-AF	, in the second	
Consumption	C1080PD-IR C1080PVD-IR C1080PD-IR-AF	PoC(DC 24V ± 10%), 4W	
	C1080PVD-IR-AF		
Mechanical			
	C1080PD C1080PD-IR		
		130(ø) x 104(H)mm	
	C1080PD-AF C1080PD-IR-AF		
Dimension	C1080PD-IR-AF		
	C1080PVD-IR C1080PVD-AF C1080PVD-IR-AF	136(ø) x 111(H)mm	
	C1080PD	359g	
	C1080PD-IR	369g	
	C1080PVD	759g	
Mainha	C1080PVD-IR	769g	
Weight	C1080PD-AF	370g	
	C1080PD-IR-AF	380g	
	C1080PVD-AF	770g	
	C1080PVD-IR-AF	780g	
Environments			
Operation Tem Certifications	np. / Humidity -1) °C ~ 50 °C / 0%RH ~ 80%RH	

Dimension (unit: mm)



Warranty

	<u> </u>	
Product name	HD-SDI Camera	Warranty term
	C1080PD, C1080PVD, C1080PD-IR,	
Model name	C1080PVD-IR, C1080PD-AF, C1080PVD-AF,	
	C1080PD-IR-AF, C1080PVD-IR-AF	2 years after
Date of purchase	20	purchase
Warranty term	20	
Serial number		

	Name	
Customer's address	Contact	
	Name	
Address of shop(Company name)	Contact	

Please fill out vacant area before sending products.

★ For customer service ★

Please read this manual again before requesting customer service.

Any simple malfunctions due to customer's misunderstanding on the product could be resolved by customer.

How to request service?

Please inform details of malfunctions correctly.

Free or non free repair will be decided based on details of warranty card.

WebGate Division Daemyung Enterprise Co., Ltd.

6F Hanlim Venture Town B/D 689-6, Geumjeong Dong, Gunposi, Gyeonggido, Korea

Main : TEL : +82-31-428-9300 Client Service : TEL : +82-1644-3421

The damages caused from following conditions will be repaired by customer's cost.

- 1. Any damage comes from customer's carelessness
- 2. When improper power is entered
- 3. When you repair unit by yourself
- 4. Any damage comes from natural disaster like lightning, flood, etc.
- 5. Consumable parts replacement





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