Caution for installation and usage

1. 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).

2. Focus setup

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

- 1) Push the center of joystick less than 1 second to enter Adjust Focusing mode.
- Move the Zoom and Focus lever to adjust angle of view and focus then finish Adjust Focusing mode by push the center of joystick again.
- ※ AF model (C1080D-AF/C1080D-IR-AF/C1080VD-AF/C1080VD-IR-AF) will perform Adjust Focusing function automatically during Auto Focusing and Manual Focusing control

3. 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.
- 5. DC12V or AC24V(500mA over) power adapter must be used.
- 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 0°C~50°C)
- 9. Do not target lens to the sun. Image sensor might be damaged
- Do not open the product under any circumstances, it could void the warranty. Natural disaster like lightning, flood will need charge for repair.

Feature

HD-SDI video digital signal

HD-SDI(High Definition Serial Digital Interface) is non-compressed digital signal for broadcasting, and there is no quality loss of high definition images.

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, ACF and HTC.

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

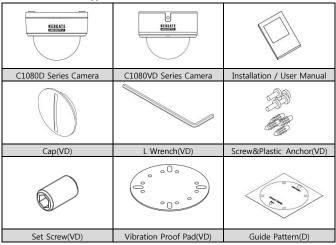
Camera can support up to 28 privacy masking areas.

OSD control and F/W upgrade

OSD control and Firmware upgrade of camera can be achieved from PC or Webgate DVR through RS485 communication.

Supplied accessories

Please check if all the supplied accessories are included.



Product description



No	Name		
1	Dome cover		
2	Camera		
3	RS485 Port		
4	Power input connector		
5	Video output BNC connector		

Camera installation

- Manual Focus Models : C1080D / C1080VD / C1080D-IR / C1080VD-IR
 - To adjust focus and avoid losing focus at night time, please make sure to adjust focus of manual lens model as follows
 - 1) Push the center of joystick less than 1 second to enter Adjust Focusing mode.
 - 2) Move the Zoom and Focus lever to adjust angle of view and focus then finish Adjust Focusing mode by push the center of joystick again.

- Auto Focus Models: C1080D-AF / C1080VD-AF / C1080D-IR-Af / C1080VD-IR-AF

- 1) Move joystick shortly to enter Manual Focusing mode.
- 2) Move joystick up(Tele) or down(Wide) to adjust the angle of view.
- Push the center of joystick shortly to exit Manual Focusing mode then push again shortly one more time to activate Auto Focusing function for exact focus.

<Note>

- To adjust exact focus, the image will enlarge 2 times bigger under Adjust Focusing and Auto Focusing mode.
- 2) The Adjust Focusing function will be activated automatically in case of AF models (C1080D-AF/C1080D-IR-AF/C1080VD-AF/C1080VD-IR-AF) during the control of Auto Focusing and Manual Focusing.
- 3) In case of AF models, Zoom Tracking function will work together with zoom control under Manual Focus mode. But this function will work normally when the focus is adjusted well before zoom control.

Notice for Auto Focus operation

Following conditions might make failure of auto focusing .

- 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.

Monitor connection

- 1. Use coaxial cable to connect camera with monitor.
- 2. Monitor needs to support SDI.
- If monitor does not have SDI input connector, you may use additional SDI to HDMI converter.

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	Transmission distance	Purpose	
2V	about 100M	For analog signal	
4C-FB(T), 4C-HFB(T), RG59	about 150M	High-foamed, double or triple shielded cable is recommended	
5C-FB(T), 5C-HFB(T), L-6CHD, RG6	about 200M	Dedicated cable for HD-SDI	

Power connection

Adapter should be DC12V or AC24V. But in case use DC power, Please be careful in the polarity when connect power.



OSD control and Firmware upgrade using RS485 communication

- 1. Connect Webgate's HD-SDI DVR with camera through RS485.
- 2. Configure PTZ settings such as Protocol(C1080), Baudrate, Address in DVR.
- Run HD Camera Upgrade program then enter IP address of DVR which is connected to camera and enter channel number of camera.
- PC for Firmware upgrade and DVR need to be connected with network.
- HD Camera Upgrade program and firmware can be downloaded from Webgate's website.



- Select a Firmware and click Load button. Then firmware upgrade will proceed and the camera will reboot automatically after completion.
- Image will stop until boot completes.
- If image stops over 1min, select Aux1 of selected channel to reboot camera again.
- After firmware upgrade, DVR or CMS(Control Center) can change camera configuration by controlling camera's OSD menu remotely.

<Note>

1) All setting values will be initialized in case of F/W upgrade.

How to use OSD menu

OSD menu function

If pressing MENU button over 1 sec continuously, OSD menu will be shown.

- 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		
ADJUST	Manual Focus Model : Push the center of joystick less than 1 second to			
FOCUSING	activate Adjust Focusing mode.			
/	- After Focus Adjı	ustment, if you press the MENU button again, Adjust		
MANUAL	Focusing mode	will be closed.		
FOCUSING	- If you do not ex	it the menu, it will be closed automatically in 1 minute.		
	Auto Focus mode	l : Move joystick shortly to activate Manual		
		Focusing mode.		
	- Zoom Tracking	function will be activated when control Zoom. But this		
	function will w	ork normally when the focus is adjusted well before		
	zoom control.			
	- If you do not ex	tit the menu, it will be closed automatically in 2 second.		
LENS	DC	This menu is activated only in AF models. Focus can be		
		adjusted by 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		
		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		
DAV	focus manually.			
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
EXPOSURE	BRIGHTNESS (8 , 0~20)	Adjust the brightness of image. The more High value it has, the more bright image it shows
	SHUTTER	- Indoor: controls brightness to show the best video 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 light frequency.
	DSS (OFF , x2~x10)	At night time or very dark condition, it accumulates the amount of light into the image pixels and provides more clear video image. But the higher setting value may make more severe motion blur accordingly.
	AGC (7 , 1~10)	It will amplify video gain according to the light 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.
	CHROMA	Adjust Chroma level.
	(10 , 0~20)	

IMAGE	SHARPNESS	Adjust sharpness. The higher value will show more		
	(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		
		- ZONE NO : Supports total 28 areas (0~27)		
		- 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.		
WDR	This 3D backlight compensation function allows bright and dark area to			
	be seen clearly together.			
	- WDR WGT(0~	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 OSD : Displays BLC area on the screen.			
		: Set X, Y start position.		
		Set Width and Height size.		
		re is very bright portion inside BLC area, this portion can the calculation of BLC compensation. This brightness		
		·		
	level for masking can be decided by below MASK LEVEL.			
HLC	- MASK LEVEL(0~10): Set brightness level for Masking. High Light Compensation. If there is very bright portion inside a scene,			
TIEC	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		ast Enhancement. Enhances image quality by raising the		
(ON, OFF)	brightness of da			
	NR	Reduce image noise under low light condition		
(LOW, MII	DDLE, HIGH)	- <u>-</u>		

FRAMERATE		Power frequency 60Hz(NTSC) : 30Hz(fps) video output	
(25Hz, 30Hz)		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).	
	DIGITAL OUT	Provides control signal output for sub light which is	
	/	synchronized with image process.	
	IR-LED	- Smart IR : When IR-LED is activated at darkness	
		condition, the intensity of IR-LED is automatically	
		controlled according to the distance with target	
		object (Activated only at IR models)	
		- DURATION(0~20) : Set the one cycle duration of TTL	
		signal output (unit : msec)	
		- POLARITY : Set the output level of TTL signal.	
		(0:0V,1:3.3V)	
		* Output cycle is decided by 30Hz/25Hz.	
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

	C1080D, C1080VD, C1080D-IR, C1080VD-IR C1080D-AF, C1080VD-AF,	
	C1080D-IR-AF, C1080VD-IR-AF	
	1/3", 2.1Megapixel CMOS	
	1920(H) x 1080(V) = 2.1M pixels	
em	Progressive Scan	
B/W	0.0005Lux@50IRE, F1.2, 3100K, DSS(OFF), AGC(10)	
Color	0.2Lux@50IRE, F1.2, 3100K, DSS(OFF), AGC(10)	
	B/W	

Lens		Lama	DC iris, 2.8mm~10mm, F1.2, IR Corrective Mega		
Video Output 1(BNC 1.0 Vp-p, 75Ω) Output Resolution 1080p 30fps / 25fps Output HD-SDI SMPTE 292M compatible Distance approx. 200m of RG6, 150m of RG59 Control Method OSD(Internal Joystick), DVR, CMS(Control Center) Filter True Day & Night AGC 1 ~ 10 steps Mirror Horizontal / Vertical WDR OFF, 0 ~ 4 setup BLC OFF, LOW, MIDDLE, HIGH ACE OFF, LOW, MIDDLE, HIGH ACE OFF, LOW, MIDDLE, HIGH Video DSS OFF, x2 ~ x10 Control White Balance AUTO, PRESET, MANUAL INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, ANTI-FLICKER Digital Zoom 0 ~ 16 steps Lens Shading OFF, ON HLC 0 ~ 20 steps Privacy OFF/ON (28 Zones) Smart IR OFF/ON Control Interface Control Interface Control Interface R5485 Upgrade Firmware / OSD Control Strobe for internal light 24PCS Electricity	Lens	Lens	Pixel Lens		
Video Output Resolution 1080p 30fps / 25fps Output HD-SDI SMPTE 292M compatible Distance approx. 200m of RG6, 150m of RG59 Control Method OSD(Internal Joystick), DVR, CMS(Control Center) Filter True Day & Night AGC 1 ~ 10 steps Mirror Horizontal / Vertical WDR OFF, 0 ~ 4 setup BLC OFF, LOW, MIDDLE, HIGH ACE OFF, ON DNR OFF, LOW, MIDDLE, HIGH Video DSS OFF, X2 ~ x10 Control White Balance AUTO, PRESET, MANUAL INDOOR, OUTDOOR, INDOOR, ANTI BLUR, MANUAL(12 steps), ANTI-FLICKER DIGITAL Zoom 0 ~ 16 steps Lens Shading OFF, ON ANTI-FLICKER DIGITAL ZOOM OFF, ON HLC 0 ~ 10 steps Privacy OFF/ON (28 Zones) Smart IR OFF/ON Control Interface RS485 Upgrade Firmware / OSD Control Strobe for internal light 24PCS Electricity DC 12V ± 10%, 3W / AC 24V ± 10%, 5W C1080D-IR -AF C1080D-IR		Туре	DC Auto Iris, Manual		
Output HD-SDI Distance SMPTE 292M compatible approx. 200m of RG6, 150m of RG59 Control Method OSD(Internal Joystick), DVR, CMS(Control Center) Filter True Day & Night AGC 1 ~ 10 steps Mirror Horizontal / Vertical WDR OFF, 0 ~ 4 setup BLC OFF, LOW, MIDDLE, HIGH ACE OFF, LOW, MIDDLE, HIGH DNR OFF, LOW, MIDDLE, HIGH Video DSS OFF, LOW, MIDDLE, HIGH Control White Balance AUTO, PRESET, MANUAL INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR, INDOOR-ANTI BLUR, ANTI-FLICKER OUTDOOR-ANTI BLUR, MANUAL(12 steps), ANTI-FLICKER Digital Zoom 0 ~ 16 steps Privacy OFF,ON Privacy OFF,ON (28 Zones) Smart IR OFF/ON Control Interface RS485 Strobe for internal light 24PCS Electricity DC 12V ± 10%, 3W / AC 24V ± 10%, 4W C1080VD - R C1080VD - R C1080D - IR - AF C1080D - IR - AF C1080D - IR - AF C1080D - IR - AF		Output	1(BNC 1.0 Vp-p, 75Ω)		
Distance	Video	Resolution	1080p 30fps / 25fps		
Control Method OSD(Internal Joystick), DVR, CMS(Control Center)	Output	HD-SDI	SMPTE 292M compatible		
Filter		Distance	approx. 200m of RG6, 150m of RG59		
AGC		Control Method	OSD(Internal Joystick), DVR, CMS(Control Center)		
Mirror	ľ	Filter	True Day & Night		
WDR		AGC			
BLC	ľ	Mirror	Horizontal / Vertical		
ACE	ľ	WDR	OFF, 0 ~ 4 setup		
DNR		BLC	OFF, LOW, MIDDLE, HIGH		
Video DSS OFF, x2 ~ x10 Control White Balance AUTO, PRESET, MANUAL INDOOR, OUTDOOR, INDOOR-ANTI BLUR, INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, MANUAL(12 steps), ANTI-FLICKER Digital Zoom 0 ~ 16 steps Lens Shading OFF, ON HLC 0 ~ 10 steps Privacy OFF/ON (28 Zones) Smart IR OFF/ON Control Interface Upgrade Firmware / OSD Control Strobe for internal light 24PCS Electricity C1080D C1080VD DC 12V ± 10%, 3W / AC 24V ± 10%, 4W C1080D-IR C1080D-IR C1080D-IR-AF DC 12V ± 10%, 4W / AC 24V ± 10%, 5W Mechanical C1080D Dimension 130(a) x 104(H)mm		ACE	OFF, ON		
Control White Balance	ľ	DNR	OFF, LOW, MIDDLE, HIGH		
INDOOR, OUTDOOR, INDOOR-ANTI BLUR, OUTDOOR-ANTI BLUR, MANUAL(12 steps), ANTI-FLICKER Digital Zoom	Video	DSS	OFF, x2 ~ x10		
Electric Shutter	Control	White Balance	AUTO, PRESET, MANUAL		
ANTI-FLICKER			INDOOR, OUTDOOR, INDOOR-ANTI BLUR,		
Digital Zoom		Electric Shutter	OUTDOOR-ANTI BLUR, MANUAL(12 steps),		
Lens Shading			ANTI-FLICKER		
HLC		Digital Zoom	0 ~ 16 steps		
Privacy OFF/ON (28 Zones) Smart IR OFF/ON Control Interface RS485 Upgrade Firmware / OSD Control Strobe for internal light 24PCS Electricity C1080D C1080VD DC 12V ± 10%, 3W / AC 24V ± 10%, 4W Power C1080D-AF C0080VD-IR DC 12V ± 10%, 4W / AC 24V ± 10%, 5W C1080VD-IR-AF C1080VD-IR-AF C1080VD-IR-AF DC 12V ± 10% 4W / AC 24V ± 10%, 6W		Lens Shading	OFF, ON		
Smart IR		HLC	0 ~ 10 steps		
Control Interface RS485 Upgrade Firmware / OSD Control		Privacy	OFF/ON (28 Zones)		
R5485 Upgrade Firmware / OSD Control		Smart IR	OFF/ON		
Strobe for internal light 24PCS	Control Interfa	ce			
C1080D	RS485		Upgrade Firmware / OSD Control		
C1080D C1080VD C1080D-AF	Strobe for inte	rnal light	24PCS		
C1080VD	Electricity		•		
C1080D-AF C1080VD-AF C1080VD-AF C1080VD-IR C1080VD-IR C1080VD-IR-AF C1080VD-IR-A		C1080D			
Power C1080VD-AF Consumption C1080VD-IR C1080VD-IR C1080VD-IR-AF C1080VD		C1080VD	DC 12V ± 10% 3W / AC 24V ± 10% 4W		
C1080D-IR		C1080D-AF	DC 12V 1 10/0, 3W / AC 24V 1 10/0, 4W		
C1080VD-IR C1080D-IR-AF C1080D	Power	C1080VD-AF			
C1080VD-IR C1080D-IR-AF DC 12V ± 10% 4W / AC 24V ± 10%, 6W	Consumption	C1080D-IR	DC 12V + 100/ 4VV / AC 24V + 100/ EVV		
C1080VD-IR-AF DC 12V ± 10% 4W / AC 24V ± 10%, 6W		C1080VD-IR	DC 12 V I 1070, 4VV / AC 24 V I 1070, 3VV		
C1080VD-IR-AF		C1080D-IR-AF	DC 12V + 10% 4W / AC 24V + 10% 6W		
Dimension 130(ø) x 104(H)mm		C1080VD-IR-AF	DC 12 V ± 10/0 4VV / AC 24 V ± 10/0, 0VV		
Dimension 130(ø) x 104(H)mm	Mechanical		·		
C1080D-IR (1)0(8) X 104(1)(11111	Dimension	C1080D	120(a) v 104/U\mm		
	Dillension	C1080D-IR	130(b) y 104(H)HIII		

	T		
	C1080D-AF		
	C1080D-IR-AF		
	C1080VD		
	C1080VD-IR	136(a) 111(1)	
	C1080VD-AF	136(ø) x 111(H)mm	
	C1080VD-IR-AF		
	C1080D	359g	
	C1080D-IR	369g	
	C1080VD	759g	
Mai alba	C1080VD-IR	769g	
Weight	C1080D-AF	370g	
	C1080D-IR-AF	380g	
	C1080VD-AF	770g	
	C1080VD-IR-AF	780g	
Environments			
Operation Temp. / Humidity		0 °C ~ 50 °C / 0%RH ~ 80%RH	
Certifications			
Certifications		KC, FCC, CE, RoHS	

Dimension (unit : mm) C1080D Series C1080VD Series 136 WEBGATE HDCGIV 104

Warranty

	· · · · · · · · · · · · · · · · · · ·	
Product name	HD-SDI Camera	Warranty term
	C1080D, C1080VD, C1080D-IR,	
Model name	C1080VD-IR, C1080D-AF, C1080VD-AF,	
	C1080D-IR-AF, C1080VD-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 : TFI : +82-31-428-9300 Client Service : TFL : +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









This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense. Modifications not expressly approved by the manufacturer could void the user's authority to operated the equipment under FCC rules.

Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product or their local government office, for details of where and how they can take these items for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.



Correct disposal of batteries in this product

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Global CCTV

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