clintonelectronics



HD Series PVMs Camera On Screen Display User Manual

Make sure you read this manual before using the camera. Store this manual safely so that you can use it in the future. Please use this manual along with the Installation Manual included with the camera.

Clinton Electronics Corp. 6701 Clinton Road. Loves Park, IL 61111

Sales: 1-800-447-3306 Support: 1-800-549-6393 www.clintonelectronics.com

IMPORTANT SAFETY INSTRUCTIONS

Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions

8. Do not install near any heat sources such as radiators, heat registers. stoves, or other apparatuses (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being

walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the appa-

ratus. When a cart PORTABLE CART WARNING is used, use caution when moving the cart/apparatus combination to avoid injurv from tip-over.



13. Unplug this appa-

ratus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture. does not operate normally, or has been dropped.



TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT DISASSEMBLE NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

In USA and Canada, Use Class 2 Power Supply Only

INFORMATION: This equipment has been tested and found to comply with 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.

DISCLAIMER: Clinton Electronics reserves the right to change the contents of this manual without prior notice.

WARNING: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

CAUTION: To prevent electric shock and risk of fire hazards:

- Do NOT use power sources other than that specified.
- Do NOT expose the inside of this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

The camera requires periodic inspection.

Contact an authorized technician to carry out the inspection.



Do not install the camera on a surface that can not support it.

If the camera is installed on an inappropriate surface, it may fall and cause injury.



Stop using your camera if you find it malfunctioning.

If the camera emits smoke or is unusually hot for a long period, a fire may be caused.



Do not hold plug with wet hands.

It could cause an electric shock.



Do not disassemble the camera.

It may result in an electric shock or other hazards.



Do not use the camera close to a gas or oil leak.

It may result in a fire or other hazards.



Do not touch the front lens of the camera.

This is one of the most important parts of the camera. Be careful not to leave fingerprints on the lens cover.

Do not install the camera in extreme temperature conditions.

Only use the camera under conditions when temperatures are between -20° F - 122° F. Be especially careful to provide ventilation when operating under high temperatures.

Do not install the camera under unstable lighting conditions.

Severe lighting change or flicker can cause the camera to work improperly.



Do not expose the camera to radioactivity.

If exposed to radioactivity the Image Sensor will fail.



Do not drop the camera or subject it to physical shocks.

It can damage the housing, compromising weather resistance.



Never keep the camera pointed directly at strong light.

It can damage the Image Sensor.



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OSD (On Screen Display) MENU

Camera functions and settings can be adjusted or changed by activating the OSD menu. When the OSD menu is activated, text will display on the monitor. The user can then move the cursor to the desired function to change the setting.

ZOOMFOCUS	• AF MODE • SYNC TDN	• SCANNING • LENS RESET	ONESHOT REFOCUS
LENS	MANUAL	• DC	
EXPOSURE	• BRIGHTNESS • AGC	• SHUTTER	• SENS-UP
BACKLIGHT	• OFF • WDR	• HLC	• BLC
DAY AND NIGHT	• AUTO • EXTERN	• COLOR	• B&W
WHITE BAL	• AUTO	MANUAL	• AWC-SET
DNR	• LOW • AUTO	• MIDDLE • OFF	• HIGH
IMAGE	• SHARPNESS • MIRROR • ACE	• COLOR GAIN • FLIP • DEFOG	• GAMMA • E. ZOOM • PRIVACY
DIS	• ON	• OFF	
MOTION	• ON	• OFF	
SYSTEM	• COMM • SYSTEM • RESET	• MODE SEL • LANGUAGE	• FRAME RATE • CAM TITLE
EXIT	RETURN		

ACCESSING THE OSD

Settings can be adjusted using the built-in joystick (located on the back-side of the PVM) or on older models can be adjusted with the button pad (located inside the camera access door).

Joystick use:

Press the 'IN' on the joystick to activate the OSD menu.



Button pad use:

Press the SET button to activate the OSD menu.



OSD MENU VARIATIONS

The OSD Menu varies slightly depending on the camera type. Certain menu option shown in the manual may not be available or have fewer options on your camera.

10" PVMs with Fixed Lens:

MENU		
LENS	MANUAL	
EXPOSURE		
BACKLIGHT	WDR ↓	
DAY&NIGHT	AUTO 🗸	
WHITE BAL		
DNR	MIDDLE	
IMAGE		
DIS	OFF	
MOTION	ON₄	
SYSTEM		
EXIT		

21" ~ 43" with Autofocus Lens: Additional ZOOMFOCUS menu.

MENU	
ZOOMFOCUS	4
LENS	DC
EXPOSURE	
BACKLIGHT	WDR ↓
DAY&NIGHT	AUTO 🗸
WHITE BAL	
DNR	MIDDLE
IMAGE	
DIS	OFF
MOTION	ON↓
SYSTEM	
EXIT	

OSD MENU SETTINGS

1. Press the IN on the joystick.

 Settings can only be changed when the OSD menu is displayed on the monitor.



- Scroll through menu items from the list available by using the UP or DOWN buttons.
- 3. Use the LEFT or RIGHT buttons to change a setting.
- 4. When finished, select 'EXIT' and press IN on the joystick to save settings.

Notes

- An item with the \clubsuit icon also has sub menus. To select a sub menu, select an item with the icon and press IN on the joystick.
- An item with the " - " icon is unavailable due to function settings.
- All menu items have a 'RETURN' option. With this function you have the option to 'RET' (RETURN), which takes you back to the previous menu screen.

ZOOM FOCUS

This function is only available on camera models with motorized Zoom & Focus. Use the options in this menu function to turn On/Off Auto Focus, reset focus and turn On/Off Day Night Sync.



From the main menu, scroll to ZOOMFOCUS and press the joystick 'IN' to access the sub-menu.

► AF MODE

Choose either AUTO or MANUAL focus.

- AUTO: The lens will focus automatically after zooming in/out.
- MANUAL: Allows for manual lens focus using the joystick.

Notes

 If Manual is the desired AF MODE; do not set SYNC TDN to 'ON'- doing so will refocus the camera at night, over-riding the manual focus selection.

SCANNING

Choose either HALF or FULL scan for focusing during zoom adjustments.

- HALF: The lens scans only the current focal length, taking about 15 seconds.
- FULL: The lens scans the entire focal length, taking 30 seconds or longer.

Scanning Mode:	Half	Full
One Shot	5 seconds	15 seconds
Lens Reset	15 seconds	30 seconds

ZOOM FOCUS

ONESHOT

Press and hold the joystick 'IN' to force the lens to quickly Auto Focus to the current zoom level/focal length.

SYNC TDN

Set to ON to automatically change the focus when the camera switches from Day to Night mode. (re-focuses when switches back to Day mode from Night).



- If SYNC TDN is set to 'ON' regular inspection and cleaning of the camera surface is strongly recommended. If the surface is dirty from dust, moisture, spider webs- the camera might not focus correctly.
- During refocusing of SYNC TDN, the camera will be out of focus for a few seconds.

► LENSRESET

Press and hold the SETUP button to reset the lens- this will go through the currently selected Scanning mode (Half or Full).

REFOCUS

Turn ON and set the interval to when the lens should refocus. Not recommended for most applications, only suggested to be used if/when the device is installed next to something that might cause the lens to lose focus (such as a heavy door slamming shut or machine that produces heavy/constant vibration). The time that the refocusing will happen is based on the time that the device was initially powered ON.



 Upon initial installation/power ON of camera the camera will begin to focus on the current scene. If there is an obstruction of the lens; installer or object blocking the lens - the camera might focus on those objects and could appear out of focus. To refocus the camera either adjust the level of zoom (zoom in / zoom out) or press and hold on ONESHOT.

LENS

These settings are not user adjustable.

MEN	U
LENS	MANUAL
EXPOSURE	
BACKLIGHT	WDR ₊i
DAY&NIGHT	AUTO 🚽
WHITE BAL	
DNR	MIDDLE
IMAGE	
DIS	OFF
MOTION	ON₊i
SYSTEM	
EXIT	

EXPOSURE

This function allows for the control of the amount of light that enters the camera. Too much light results in a washed out image.

MENU	
MENU ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL	ہا DC ما WDR ہا AUTO ہا مالک کا ت
DNR IMAGE DIS MOTION SYSTEM EXIT	MIDDLE ↓ OFF ON↓ ↓

Press IN on the joystick to access the sub-menu items listed below.

BRIGHTNESS

Adjusts the video brightness (selectable from 0 -20).

SHUTTER

Select either AUTO, MANUAL or FLICKER.

- AUTO: Automatic shutter speed/control.
- MANUAL: Control the shutter speed manually (1/60-1/60,000).
- FLICKER: Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.

SENS-UP

During low light situations, the camera will automatically detect the light level and maintain a clear picture if this mode is activated.

► AGC (Auto Gain Control) The higher the gain level, the brighter the screen, but the higher the noise.

Notes

- SENS-UP is disabled depending on SHUTTER settings & if WDR is turned ON..
- The higher the SENS-UP level, the brighter the screen, but the more likely it is that an after-image will appear. Possible image blur is normal with increased zoom while using SENS-UP.

BACKLIGHT

This function is useful for adjusting areas of interest that appear too bright or too dark due to bright lighting conditions.

MENU	
MENU ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM	با DC با MDR با ما MIDDLE با OFF ON با با
EAT	

Select a desired mode using the LEFT or RIGHT buttons depending on the camera purpose.

► **HLC** (High Light Compensation)

If the scene contains extremely bright light areas such as car headlights, the light can mask out much of the on-screen detail. Use the HLC feature to remove these bright lit areas to allow detail, such as a car license plate number, to become more visible.

- LEVEL: The lower the level, the more of the HLC mask will be applied.
- COLOR: Black, White, Yellow, Cyan, Green, Magenta, Red, and Blue.



HLC ON

HLC OFF

BACKLIGHT : CONTINUED

▶ BLC (Back Light Compensation)

An area with a bright light source in the background can cause objects in the foreground to appear as silhouettes. Use this setting to adjust the exposure of the image to properly expose the object in the foreground.

- H-POS: Adjust LEFT or RIGHT to move the Horizontal Position.
- V-POS: Adjust LEFT or RIGHT to move the Vertical Position.
- H-SIZE: Adjust LEFT or RIGHT to increase or decrease the Horizontal Size.
- V-SIZE: Adjust LEFT or RIGHT to increase or decrease the Vertical Size.



BLC ON



BLC OFF

► WDR (Wide Dynamic Range)

This function illuminates darker areas of an image while retaining the same light level for brighter areas to even out the overall brightness of images with high contrast between bright and dark areas.

• WEIGHT: Set to LOW, MIDDLE or HIGH.



WDR ON



WDR OFF



• When WDR is turned 'ON' certain OSD menu options are disabled.

DAY & NIGHT

This function displays images in color or B/W. In AUTO mode the camera will automatically transition to B/W to allow for clearer low-light images.

MENU	
MENU ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM	یا DC ک WDR یا AUTO یا ک MIDDLE ک OFF ON یا ک
SYSTEM EXIT	

From the main menu, scroll to DAY&NIGHT and select a desired mode using the Left or RIGHT buttons according to the picture display you want.

► AUTO 🗸

The mode is switched to 'COLOR' in a normal environment, but switches to 'B/W' mode when ambient illumination is low.

- ANTI-SAT: Cameras equipped with IR LEDs may have an over-saturated night time image. Adjust the level of ANTI-SAT to compensate for over-saturation.
- D>N THRES: Day to Night change level.
- N>D THRES: Night to Day change level.
- DELAY: Sets a delay time before the switch is made from day to night/night to day. Useful if the camera is placed in an area that is subject to shadows or intermittent light level changes.

COLOR

The image is always displayed in color. Automatic switching does not occur.

▶ B/W

The image is always displayed in black and white. Automatic switching does not occur.

WHITE BALANCE

This function allows the ability to adjust the color temperature, based on colors being emitted from different light sources. Illumination is generally referred to as color temperature, which is represented in a measurement of kelvin (K).

MENU		
ZOOMFOCUS		
LENS	DC	
EXPOSURE		
BACKLIGHT	WDR ₊i	
DAY&NIGHT	AUTO 📢	
WHITE BAL	نۍ	
DNR	MIDDLE	
IMAGE		
DIS	OFF	

From the main menu, scroll to WHITE BAL and select one of the 4 following modes using the Left or Right buttons.

► AUTO (1,800°K ~ 10,500°K)

Select this to automatically readjust the white balance each time a change in the ambient color temperature is detected.

► AWC-SET 🚽

Select this to find the optimal luminance level for the current environment, point the camera towards a sheet of white paper, then press and hold the joystick IN. Contine holding the joystick IN until the text stops flashing.

MANUAL

Select this to fine-tune white balance manually. Color Temp (°Kelvin) and Red/ Blue gain values are adjustable.

• WHITE BALANCE may not work properly under the following conditions:

- 1. When the color temperature of the environment surrounding the subject is out of the control range (ie. clear sky or sunset).
- 2. When the ambient illumination of the subject is dim.
- If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the WHITE BALANCE operation may become unstable.

DNR (DIGITAL NOISE REDUCTION)

This function reduces background image noise in a low light environment, improving visibility.

MENU	
MENU ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM FXIT	မ DC မ AUTO မ မ MIDDLE မ OFF ON မ မ

From the main menu, scroll to DNR and select one of the 4 following modes using the Left or Right buttons.

► DNR

- AUTO
- LOW
- MIDDLE
- HIGH





LOW

MIDDLE

HIGH



• When adjusting the noise reduction level, remember that the higher the level is set, the greater the reduction in noise level, as well as the brightness of the image but trailing may occur with moving objects.

IMAGE

This function includes features that allow you to make adjustments to fine-tune the quality of the image displayed on the monitor.

MENU	
ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM EXIT	ಳೆ DC ಭ AUTO ಳ MIDDLE d OFF ON ಭ ಳ

From the main menu, scroll to IMAGE and enter the sub-menu to adjust one of the 9 following options.

SHARPNESS

The outline of the image becomes cleaner and more distinctive as the SHARPNESS level increases. If you increase the SHARPNESS level too high, the picture may become distorted or noise may appear.

COLOR GAIN

The higher the value, the more saturated the colors are. The lower the value, the less color there is overall.

GAMMA

Adjust how light and color are displayed.

MIRROR

Mirror the camera image horizontally.

► FLIP

Flip the camera image vertically.



IMAGE : CONTINUED

► E. ZOOM

Enable and adjust the level of digital zoom (1.0x~16.0x).

- ACE (Adaptive Color Enhancement) Enhance the color contrast of the image.
- ► DEFOG:

Images in extraordinary environments such as fog, smoke, rain or smog have a dynamic range lower than ordinary images. This function is a contrast enhancement, which is used to overcome such shortcomings.



DEFOG ON



DEFOG OFF

PRIVACY 4

Apply a mask to an area you want to hide. Useful in areas where a camera can see into areas that are not relevant to security needs.

- BOX ↓ : Apply up to 16 different privacy boxes.
- POLYGON ↓ : For more complex masking areas use this feature.



- Picture quality degrades when using the digital zoom functions.
- E. Zoom is disabled when Motion/Quick Zoom is turned ON.
- ACE & Defog are disabled when WDR is turned ON.

DIS (DIGITAL IMAGE STABILIZATION)

This function reduces and stabilizes video caused from cameras installed on surfaces subject to vibration or wind. When DIS is enabled, the image is zoomed in digitally slightly, which results in sight resolution loss. DIS is less effective when the camera is viewing a mostly solid color wall or in low lighting conditions.

MENU	
MENU ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL	ہا DC ہا WDR ہا AUTO ہا ہا
DNR IMAGE DIS MOTION SYSTEM EXIT	MIDDLE J OFF ONJ J

► DIS (Digital Image Stabilization)

- RANGE: Adjust the level of stabilization compensation. The higher the level, the more zoomed in the image will be.
- FILTER: Set the sensitivity to hold the DIS function in the worst case.
- AUTO C: Set the Auto Center mode.



 When DIS is turned on, the image is zoomed in digitally. Depending on the zoom level (Range%) set, certain camera OSD overlays like Privacy and Motion boxes will be zoomed in also- possibly off the screen.

MOTION

Useful functions for crime prevention & detection. Motion must be set to 'ON' for motion detection switching from Camera to SD Card content or vice-versa.

MENU			MOTION	
ZOOMFOCUS LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM EXIT	یا DC بن WDR بن AUTO بن MIDDLE با OFF ON, بن پا	DET WIN SENSITIV ESTIMAT QUICK ZC MOTION TEXT AL. SIGNAL C RETURN	IDOW /ITY E OOM OSD ARM DUT	5 OFF OFF OFF OFF ON

From the main menu, scroll to MOTION, move LEFT or RIGHT to select ON and press the joystick IN to access the sub-menu.

DET WINDOW 4

Choose from 4 different detection windows to adjust their size and position as needed.

SENSITIVITY

The lower the value the more sensitive the camera will be to motion.

► ESTIMATE

If a moving object disappears, estimate where it will reappear.

QUICK ZOOM 4

Digital zoom to designated motion detection zones, the motion detection zones are setup in the MOTION menu.

MOTION OSD

Turn 'ON' to track moving objects with a colored outlined box.

TEXT ALARM

When motion is detected text will be displayed on screen to alert you to the type of motion; Unknown Motion / Motion Detected / Blocking Detected / Shifting Detected.

SIGNAL OUT

When a motion type is detected a signal is output from the camera. This must be set to ON for the motion detection signal from the camera to trigger switching of sources.

MOTION

	To Enabl	e Motion	Track	ker & Quick Zo	om -	
П				MOTION		
	LENS EXPOSURE BACKLIGHT DAY&NIGHT WHITE BAL DNR IMAGE DIS MOTION SYSTEM EXIT	DC J WDR J AUTO J J MIDDLE J OFF ON J J		SENSITIVITY ESTIMATE QUICK ZOOM MOTION OSD TEXT ALARM SIGNAL OUT RETURN	off ON ON OFF ON	
'	From the main menu MOTION must be set to ON .					
I	From the Motion sub-menu:					
	QUICK ZOOM ↓ - ON					
	MOTION OSD - ON					

- MOTION must be set to ON for the switching from sources (SD Card Player to Camera) when the IMAGE MODE is set to Motion.
- Changing the SIGNAL OUT to OFF (from the sub-menu) will disable automatic motion detection switching.
- If Digital Image Stabilization is turned ON, Quick Zoom will be disabled.
- Enabling Quick Zoom will disable any E. ZOOM adjustments.
- The same image shown on the screen will be output to a connected DVR. Do not turn on Motion Tracker & Quick Zoom if you do not want the recorded video to have colored lines and zoom in & out.

SYSTEM

ہا DC ما WDR ہا AUTO ہا ما MIDDLE ما
OFF ON لم نہ

From the main menu, scroll to SYSTEM and press IN on the joystick to access the sub-menu.

► COMM. (Communication)

This function is disabled/not user adjustable.

▶ MODE_SEL

Select the HD video output of the camera; HD-SDI or EX-SDI. If set to EX-SDI the camera must be connected to an EX-SDI DVR or Monitor to receive signal. • HD-SDI / EX-SDI

FRAME RATE

Set the frame rate and resolution output from the camera. Adjusting the frame rate to any other setting besides 1080p/30fps can result in no camera image on the screen of the PVM and/or no camera image recorded on a connect DVR.

► VIDEOSYS

Choose either NTSC or PAL depending on the region of the world the camera is installed and display settings other connecting video components are set to. In North America leave set to NTSC.

LANGUAGE

Change the language of the OSD Menu. • ENGLISH, CHINESE, CHINESE (S), JAPANESE or KOREAN

SYSTEM

CAM TITLE

Use this feature if you want to quickly identify a given image by assigning a title that will display on screen.



- Select CAM TITLE, then use the LEFT/RIGHT button to set it to 'ON' and then press the SET button.
- 2) Use the 4 direction buttons to move to a desired letter and select the letter by pressing the SET button. Repeat this to enter multiple letters. You can enter up to 8 letters.

► RESET

Press IN on the joystick and hold the SET button to reset the camera OSD settings to the factory defaults. Release the SET button when "PUSHING" is displayed.



- EX-SDI will not display on an HD-SDI system and vice-versa. Ensure that the correct mode is selected.
- When the CAM TITLE menu is 'OFF', no title will be displayed on the monitor even if you enter one.

EXIT

From the main menu, scroll to EXIT and press $\ensuremath{\mathsf{IN}}$ on the joystick to exit from the OSD menu.

TROUBLESHOOTING

If you have trouble operating your camera, refer to the following table. If the guidelines do not enable you to solve the problem, contact Clinton Electronics Technical Support at 1-800-549-6393 or 815-633-1444.

Problem	Solution
Nothing appears on the screen.	 Check the power connection. Check the video signal connection (HD-SDI, Composite). When the camera's HD-SDI/EX-SDI BNC output is directly connected to the DVR's or monitor's BNC terminal: Make sure the DVR or monitor supports that signal type/input. Check MODE_SEL; change to HD-SDI if connected to HD-SDI system, or EX-SDI if connected to EX-SDI system. HD-SDI output is converted into other format such as HDMI, DVI or VGA by using a video converter. Make sure the converter's HD-SDI input format supports the product's output video format
The video image is not clear.	 Check if the lens is clean. Clean the lens with a clean cloth. Check if the dome is clean. Clean the dome with water and a clean, lint-free cloth. Check the focus of the camera. Adjust the contrast feature of the monitor. Make sure that the screen is not exposed directly to a bright light. Move the camera if necessary.
The screen is dark.	 Adjust the contrast feature of the monitor. Adjust the BRIGHTNESS level of the EXPO- SURE. If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals.

TROUBLESHOOTING

Problem	Solution
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	 Check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage keeps changing.
The MOTION function is not working.	Check if the SENSITIVITY level is too low.
Colors are not quite right.	 Check the WHITE BAL setting. Perform AWC→SET.
The screen is flickering.	 Check if the camera is facing directly into sunlight or fluorescent light. Move the cam- era if necessary. Set Shutter to FLK. (Flicker) HD-SDI video may not appear to be normal if distance exceeds the maximum transferable distance. When a BNC cable adapter is used to com- bine two or more BNC cables for distributed HD-SDI video transfer, make sure the imped- ance of the adapter is 75Ω. Otherwise, it may cause shorter transfer distance or broken video transfer.
COLOR (Day&Night) mode is not working.	 Check the delay in the DAY&NIGHT 'AUTO' sub-menu.
The camera is not switching to B/W mode at night.	• Check the DAY&NIGHT setting. If the camera is equipped with IRs, leave set to EXTERN.
SENS-UP function is not working.	 Check if Shutter settings are set to AUTO or 1/30.

HD-SDI INSTALL TIPS

COMPATIBILITY:

While EX-SDI, HD-SDI and Analog share the same type of cable and connectors, that is where the similarities end.

- EX-SDI will not work on Analog only DVRs & Devices
- EX-SDI will not work on CVI, TVI, AHD DVRs & Devices
- EX-SDI will not work on HD-SDI only DVRs & Devices

When making video connections, ensure the correct BNC connector is used.

DISTANCES:

The camera can transmit EX-SDI (1.0), which is capable of transmitting video up to 800' over RG59 coax cable.

SDI Output	Distance*	
EX-SDI 1.0	800 ft	Distances will vary depending on RG59
HD-SDI	275 ft	coax integrity.

Cable splices, improper BNC termination, damaged shielding, kinks and severe bends in the cable will reduce the possible distance of the video transmission.

SDI OUTPUT:

To change the digital video output of the camera (SDI Output): Enter the camera's OSD menu- then access the SYSTEM menu, scroll to MODE SEL and move left or right to change from HD-SDI to EX-SDI.

CONTACT





CCTV Support 1-800-549-6393



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