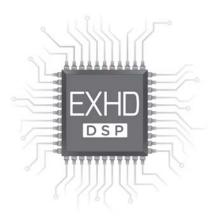
# clintonelectronics



# ON SCREEN DISPLAY User Manual

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

#### IMPORTANT SAFETY INSTRUCTIONS

- 1. 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 apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury from tip-over.



- 13. Unplug this apparatus 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.



## 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 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.



### 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 finger-prints 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 drop the camera or subject it to physical shocks.

It can damage the housing, compromising weather resistance.



#### Do not expose the camera to radioactivity.

If exposed to radioactivity the Image Sensor will fail.



## Never keep the camera pointed directly at strong light.

It can damage the Image Sensor.



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## OSD (On Screen Display) MENU

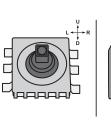
Camera functions and settings can be adjusted or changed by activating the OSD menu. When the OSD menu is activated, text will display on the monitor. The user can then move the cursor to the desired function to change the setting.

ZOOMFOCUS	• AF MODE • SYNC TDN	• SCANNING • LENS RESET	• ONEPUSHAF • 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	• AWB	• AWC-ET
DNR	• LOW • OFF	• MIDDLE	• HIGH
IMAGE	• SHARPNESS • MIRROR • ACE • PRIVACY	• COLOR GAIN • FLIP • DEFOG	• GAMMA • D-ZOOM • SHADING
DIS	• ON	• OFF	
MOTION	• ON	• OFF	
SYSTEM	• COM. • VIDEOSYS • LANGUAGE	• MODE_SEL • CVBS_FILTER • CAM TITLE	
EXIT	• RETURN		



### **ACCESSING THE OSD**

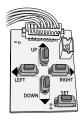
Settings can be adjusted using the built-in joystick, button pad, or optional handheld CE-REMOTE (sold separately).





#### Joystick use:

Press directly down on the joystick to activate the OSD menu. The OSD joystick is either located on the camera board, or in-line(on the cable).



#### **Button pad use:**

Press the SET button to activate the OSD menu.



#### **CE-REMOTE** use:

Plug the remote into port located on the camera. Press the SETUP button to activate the OSD menu.

\*CE-REMOTE

(sold separately) not available for every

### **OSD MENU VARIATIONS**

The EXHD 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.

#### Standard:

Full featured menu for standard EXHD cameras.

CLINTON EXHD		
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS	MANUAL  J  OFF  AUTO J  AUTO  MIDDLE  J  ON  OFF	
10. SYSTEM		
11. EXIT		

#### Zoom/Focus:

Full featured menu with the addition of a ZOOMFOCUS menu option, For EXHD cameras with motorized Zoom & Focus only.

CLINTON EXHD		
O. ZOOMFOCUS	4	
1. LENS	DC	
2. EXPOSURE		
3. BACKLIGHT	OFF	
4. DAY&NIGHT	EXTERN.⁴	
5. WHITE BAL	AUTO	
6. DNR	MIDDLE	
7. IMAGE		
8. DIS	OFF	
9. MOTION	OFF	
10. SYSTEM		
11 FYIT		

#### **Lite Series:**

Does not have Digital Image Stabilization and other options are limited. For Lite Series cameras only

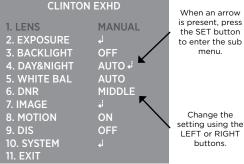
EX-SD	LITE
1. LENS	MANUAL
2. EXPOSURE	
3. BACKLIGHT	OFF
4. DAY&NIGHT	AUTO ₽
5. WHITE BAL	AUTO
6. DNR	MIDDLE
7. IMAGE	
8. MOTION	OFF
9. SYSTEM	
10. EXIT	



### **OSD MENU SETTINGS**

- Press the SET button.
  - Settings can only be changed when the OSD menu is displayed on the monitor

Select the function using the UP or DOWN buttons.



menu

Change the setting using the LEFT or RIGHT buttons

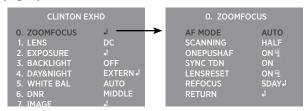
- 2. Scroll through menu items from the list available by using the UP or DOWN buttons.
- 3. Use the LEFT or RIGHT buttons to change a setting.
- 4. When finished, select 'EXIT' and press the SET button to save settings.



- An item with the 🔟 icon also has sub menus. To select a sub menu, select an item with the icon and press the SET button.
- 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.
- Some menu items (WDR) only function when connected to an HD-SDI monitor/ DVR. If connected to an analog source (ie; analog test monitor), the screen will display only black. Press the LEFT or RIGHT button to de-select the item.

### **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 SET button 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 or D-Pad of CE-REMOTE.

#### **► SCANNING**

Choose either HALF or FULL scan.

- HALF: The lens scans only the current focal length, taking about 30 seconds.
- FULL: The lens scans the entire focal length, taking up to 1 minute or longer.

#### **► ONEPUSHAF**

Press and hold the SETUP button to force the lens to 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).

#### **▶ LENSRESET**

Press and hold the SETUP button to reset the lens.

#### ▶ REFOCUS

The lens refocuses at a set time/day interval. Useful for applications when the camera will not switch Day/Night modes (SYNC TDN refocus) due to constant lighting.



- To set the time on the camera for REFOCUS; go to System/Time Set, then set to USE. Set the time (24 hour/military time clock).
- If Time Set is not enabled, the REFOCUS time will take place on the set time (if set to 1 DAY- the lens will refocus 24 hours from the time the option was set.



## LENS

This function is used to adjust the brightness of the screen. DC or MANUAL will automatically be selected, depending on the iris of the camera lens; automatic or manual.

1. LENS MANUAL 2. EXPOSURE & 3. BACKLIGHT OFF 4. DAY&NIGHT AUTO & 5. WHITE BAL AUTO 6. DNR MIDDLE 7. IMAGE & 8. MOTION ON 9. DIS OFF	CLINTON EXHD		
10. SYSTEM ↓i	2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION	4i OFF AUTO 4i AUTO MIDDLE 4i ON	

From the main menu, scroll to LENS and press the SET button to access the submenu.

#### **► MANUAL**

Adjust the Level of Iris Control.

#### ▶ DC

No options selectable, Iris is automatically controlled by lens.

### **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.

CLINTON EXHD		
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS 10. SYSTEM	MANUAL  di OFF AUTO di AUTO MIDDLE di ON OFF	
5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION	AUTO MIDDLE	

Press the SET button 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.



- SENS-UP may be disabled depending on manual SHUTTER settings.
- 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.

CLINTON EXHD		
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION	MANUAL	
9. DIS 10. SYSTEM 11. EXIT	OFF ↓	

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.







HIC 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** 

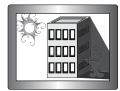
#### ► WDR (Wide Dynamic Range)

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 OFF



- WDR mode will not function when the camera is connected via the ANALOG connection. WDR mode is an HD-SDI only function.
- If connected to the ANALOG connection, the screen will go black when selecting WDR. Press Right or Left on the joystick to select a different option.
- Lite Series camera's frame rate drops from 30fps to 15fps when WDR is ON.





### **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. This also allows cameras equipped with infrared illuminators to provide clear images in low-light or no-light situations.

CLINTON EXHD	
1. LENS	MANUAL
2. EXPOSURE	
3. BACKLIGHT	OFF
4. DAY&NIGHT	AUTO ₽
5. WHITE BAL	AUTO
6. DNR	MIDDLE

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. \*Default setting for standard cameras (cameras without IR LEDS).

- 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.

#### **► EXTERN 4** (External)

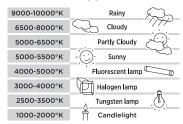
The mode is switched to 'COLOR' in a normal environment, but switches to 'B/W' mode when ambient illumination is low. \*Default setting for cameras with IR LEDs.

- 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.

### 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).

CLINTON	EXHD
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS 10. SYSTEM 11. EXIT	MANUAL  J OFF AUTO AUTO MIDDLE J ON 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.

#### ► AWB (3,000°K ~ 7,000°K)

Select this to set the white balance for only one particular environment. More accurate then AUTO, but has to be reset manually when there is a change in ambient color temperature.

#### ► 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 SET button. 'PUSHING' will display once the change has been made.

#### ▶ 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.
- 3. 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.

CLINTO	N EXHD
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS 10. SYSTEM 11. EXIT	MANUAL  di OFF AUTO di AUTO MIDDLE di ON OFF

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

#### **▶**DNR

- OFF
- LOWMIDDLE
- 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.

CLINTON	I EXHD
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS 10. SYSTEM	MANUAL  J  OFF  AUTO  MIDDLE  J  ON  OFF

From the main menu, scroll to IMAGE and select one of the 11 following modes using the Left or Right buttons.

#### ▶ 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.

#### ▶ GAMMA

Adjust how light and color are displayed.

#### ▶ COLOR GAIN

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

#### ▶ MIRROR

Mirror the camera image horizontally.

#### ► FLIP

Flip the camera image vertically.







### **IMAGE:** CONTINUED

#### ▶ D-ZOOM

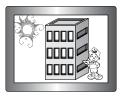
Enable and adjust the level of digital zoom (1.0x-16.0x).

### ► 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 shortcominas.





DEFOG ON

DEFOG OFF

#### ▶ SHADING

Select to adjust for smoke-tinted domes or image vignetting caused by wide angle lens limitations.

#### ▶ 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.



### Notes

• Picture quality degrades when using the digital zoom functions.

### **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.

CLINTON EXHD				
1. LENS 2. EXPOSURE 3. BACKLIGHT 4. DAY&NIGHT 5. WHITE BAL 6. DNR 7. IMAGE 8. MOTION 9. DIS 10. SYSTEM 11. EXIT	MANUAL  di  OFF  AUTO di  AUTO  MIDDLE  di  ON  OFF  di			

#### ▶ **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.



- DIS is not available on LITE Series cameras.
- 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

Monitor activity more efficient with this feature by means of highlighting moving objects with a red outlined box around the moving object.

CLINTON EXHD				
1. LENS	MANUAL			
2. EXPOSURE				
3. BACKLIGHT	OFF			
4. DAY&NIGHT	AUTO ₊i			
5. WHITE BAL	AUTO			
6. DNR	MIDDLE			
7. IMAGE				
8. MOTION	ON			
9. DIS	OFF			
10. SYSTEM				
11. EXIT				

From the main menu, scroll to MOTION, move LEFT or RIGHT to select ON and press the SET button 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.

#### ▶ QUICK ZOOM 4

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

#### ▶ MOTION OSD

Turn 'ON' or 'OFF' the red outlined box around the moving object.

#### ▶ 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.



- If DIS is turned on, QUICK ZOOM may be disabled.
- QUICK ZOOM only works on older non-motorized zoom cameras.

### **SYSTEM**

From the main menu, scroll to SYSTEM and press the SET button to access the sub-menu.

#### ► COM. (Communication)

This function sets up the camera communication status when controlling the camera through an external control device.

- CAM ID: Set the camera's identification number 0~255.
- BAUDRATE: Select 2400/4800/9600/57600/115200 bps.

#### ▶ 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.

• 1080\_30p / 720\_30p

#### ▶ 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.

#### ► CVBS FILTER

The resolution of the analog output might be too high for older DVRs (pre 960H) or PC based DVRs (that only accept D1 or CIF), and can result in moiré patterns (rainbow artifacts). Turn this filter on to lower the resolution of the analog signal.

#### ▶ TIME SET

Set the time of the internal clock of the camera, used for the REFOCUS option on motoroized Zoom/Focus cameras.



### **SYSTEM:** CONTINUED

#### ▶ LANGUAGE

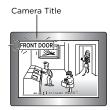
Change the language of the OSD Menu.

• ENGLISH, CHINESE, CHINESE (S), JAPANESE or KOREAN

#### **► 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 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.
- Older EXHD model cameras had additional options for frame rate (1080\_60p, 720\_60p. If using one of these older models, do not set the frame rate to 60fps if connecting to a DVR that is only capable of 30fps. No image will result.
- 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 the SET button to exit from the OSD menu.

CLINTON EXHD				
1. LENS	MANUAL			
2. EXPOSURE				
3. BACKLIGHT	OFF			
4. DAY&NIGHT	AUTO ↓			
5. WHITE BAL	AUTO			
6. DNR	MIDDLE			
7. IMAGE				
8. MOTION	ON			
9. DIS	OFF			
10. SYSTEM				
11. EXIT				



## **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 If set to WDR, the analog signal is disabled.
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.	<ul> <li>Adjust the contrast feature of the monitor.</li> <li>Adjust the BRIGHTNESS level of the EXPOSURE.</li> <li>If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals.</li> </ul>

## 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.	<ul> <li>Check if the camera is facing directly into sunlight or fluorescent light. Move the camera if necessary.</li> <li>Set Shutter to FLK. (Flicker)</li> <li>HD-SDI video may not appear to be normal if distance exceeds the maximum transferable distance.</li> <li>When a BNC cable adapter is used to combine two or more BNC cables for distributed HD-SDI video transfer, make sure the impedance of the adapter is 75Ω. Otherwise, it may cause shorter transfer distance or broken video transfer.</li> </ul>	
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**

#### **Existing Coax:**

Coax cable that once worked fine for analog may not be suitable for HD-SDI installations. HD-SDI is a digital signal that has a different transmission method than analog. It is important to test the cable before committing to using the existing coax cable for your installation.

#### Coax Cable Integrity is Critical:

Do not kink or bend the coax cable at an extreme angle. The integrity of the outer shielding of coax is very important to the HD-SDI signal. Damaged cable reduces the signal strength and could even cause no video.

#### Avoid Splices:

Splices and poor quality connectors are not suitable for a HD-SDI system. Avoid splices at all costs and only use high quality compression style BNC connectors.

#### **Typical Distance:**

The typical distance with Clinton CE-CB1000 or CE-CW1000 Siamese cable range from 250-275 feet.

#### **Longer Distances:**

If you plan to run the coax longer than 275 feet, we strongly recommend that you use an HD-SDI extender like the CE-SDIEXT. Optionally the camera can be set to EX-SDI mode, and is then capable of transmitting video up to 800 feet.

#### **Coax Cable Testing:**

It is advised to use a signal generator (CE-SDIGEN) and a cable tester (CE-SDIT-EST) to check the cable to see if it will be OK for an acceptable HD-SDI signal.

#### Analog and HD-SDI are not interchangeable.

While HD-SDI and Analog share the same type of cable and connectors, that is where the similarities end. Analog cameras will not work on HD-SDI DVRs and HD-SDI cameras will not work on Analog DVRs.

#### When in doubt test the cable:

Before you suspect the HD-SDI camera or DVR is defective please check the device with a short piece of coax cable to make sure it is not the cable run causing the trouble.

#### We are here to help:

If you need further help call Clinton Electronics Technical Support toll free at: 800-549-6393.

<sup>\*</sup> CE-SDIEXT, CE-SDIGEN, CE-SDITEST sold separately

### CONTACT



**CCTV Sales** 1-800-447-3306



**CCTV Support** 1-800-549-6393



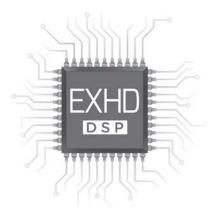
Web www.clintonelectronics.com



**Address** 6701 Clinton Road Loves Park, IL 61111



# **clinton**electronics



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.

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