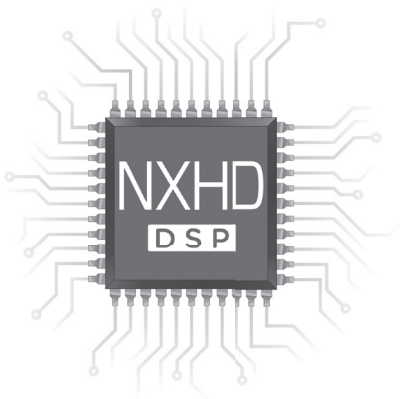


clintonelectronics




ON SCREEN DISPLAY User Manual

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

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 apparatus (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 the cart/apparatus combination to avoid injury from tip-over.


PORTABLE CART WARNING
S3125A
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.



CAUTION



RISK OF ELECTRIC SHOCK, DO NOT DISASSEMBLE

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 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 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 CCD will fail.



Never keep the camera pointed directly at strong light.

It can damage the CCD.



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OSD (On Screen Display) MENU

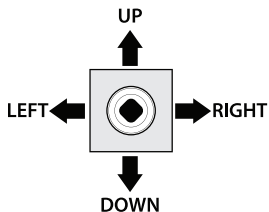
Camera functions and settings can be adjusted or changed by activating the OSD menu. When the OSD menu is activated, text will display on the monitor. The user can then move the cursor to the desired function to change the setting.

FOCUS	<ul style="list-style-type: none">• AUTO FOCUS• DIS	<ul style="list-style-type: none">• DIGITAL ZOOM	<ul style="list-style-type: none">• SMART ZOOM
LENS	<ul style="list-style-type: none">• INDOOR	<ul style="list-style-type: none">• OUTDOOR	
EXPOSURE	<ul style="list-style-type: none">• SHUTTER• BRIGHTNESS• ACCE	<ul style="list-style-type: none">• AGC• BLC• DEFOG	<ul style="list-style-type: none">• SENS-UP• HSBLC
WDR	<ul style="list-style-type: none">• OFF	<ul style="list-style-type: none">• ON	
WHITE BAL	<ul style="list-style-type: none">• ATW• AWB	<ul style="list-style-type: none">• AWC→SET	<ul style="list-style-type: none">• MANUAL
DAY & NIGHT	<ul style="list-style-type: none">• AUTO• EXT	<ul style="list-style-type: none">• COLOR	<ul style="list-style-type: none">• B/W
NR	<ul style="list-style-type: none">• 2DNR	<ul style="list-style-type: none">• 3DNR	
SPECIAL	<ul style="list-style-type: none">• CAM TITLE• PRIVACY• UTC MODE	<ul style="list-style-type: none">• D-EFFECT• LANGUAGE	<ul style="list-style-type: none">• MOTION• DEFECT
ADJUST	<ul style="list-style-type: none">• SHARPNESS• RESOLUTION	<ul style="list-style-type: none">• MONITOR• FRAME RATE	<ul style="list-style-type: none">• LSC
RESET	<ul style="list-style-type: none">• FACTORY		
EXIT			

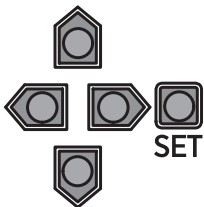
Auto Focus / Zoom Cameras Only

ACCESSING THE OSD

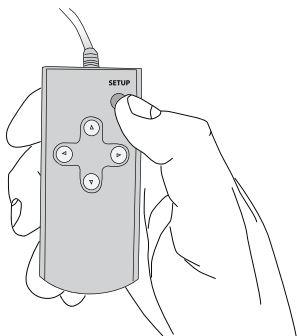
Settings can be adjusted using the built-in joystick, button pad, optional CE-REMOTE or the optional UTC (Up The Coax) REMOTE.



Joystick use: Press directly down on the joystick to activate the OSD menu.



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 model.

OSD MENU SETTINGS

1. 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.

MAIN MENU	
1. LENS	DC ↓
2. EXPOSURE	↓
3. WDR	OFF
4. WHITE BAL	ATW
5. DAY & NIGHT	AUTO ↓
6. NR	↓
7. SPECIAL	↓
8. ADJUST	↓
9. RESET	↓
10. EXIT	↓

When an arrow is present, press the SET button to enter the sub 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.



Notes

- 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.
- After 30 seconds of no OSD activity, the OSD menu will disappear.
- 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. Or you have to the option to 'END', which saves current settings and exits out of the OSD Menu.
- Some menu items 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.

FOCUS *Auto Focus / Zoom Cameras Only*

This function is only available on cameras equipped with a Auto Focus Zoom lens.

FOCUS	
1. AF-MODE	SEMI
2. DISTANCE	0.3M
3. LENS-REFRESH	OFF
4. D-ZOOM	OFF
5. ZOOM DISPLAY	OM
6. SMART-ZOOM	OFF
7. DIS	OFF
8. D-EFFECT	↓
9. LENS-INITIAL	↓
10. RETURN	RET

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

- ▶ **AF-MODE**
 - **SEMI** : The Focus will be adjusted automatically just after zoom in or out.
 - **AUTO** : The Focus will be adjusted automatically according to the level of zoom.
 - **MANUAL** : Manually adjust the focus of the lens.
- ▶ **DISTANCE**

The effective distance setting for focus control modes; Auto, Manual, or SEMI. Adjustable from: .03M / 0.5M / 0.8M / 0M / 1M / 3M / 5M / 10M
- ▶ **LENS-REFRESH**

Lens origin is regularly calibrated automatically. Select between performing either every day to every 10 days.
- ▶ **D-ZOOM (DIGITAL ZOOM)**

Enable and adjust the level of digital zoom.
- ▶ **ZOOM-DISPLAY**

Display the level of zoom; O=Optical Zoom, D=Digital Zoom
- ▶ **SMART-ZOOM**

Motion activated Digital Zoom (x1-x10) to a specified area. Useful for zooming to an area of interest, such as a doorway, while still being able to monitor the surrounding area.

Auto Focus / Zoom Cameras Only

FOCUS *Auto Focus / Zoom Cameras Only*

► DIS (DIGITAL IMAGE STABILIZER)

This function mitigates any picture movement due to external factors such as wind or building vibration.

► D-EFFECT

• **FREEZE** : Pause the image or reactivate it.

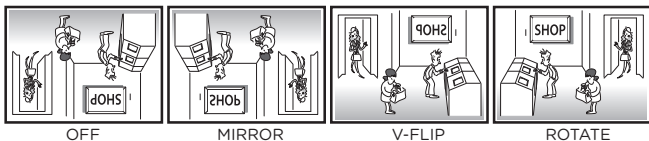
• **MIRROR**

You can reverse/flip the image from the camera on your monitor.

- MIRROR : Vertical flip.

- V-FLIP : Both horizontal and vertical flip.

- ROTATE : Horizontal flip.



► LENS-INITIAL

Lens origin is calibrated by controlling.



Notes

- Enabling any one of the Digital Zoom effects; D-ZOOM, Smart-Zoom or DIS will disable the other two. IE; if Smart-Zoom is enabled, D-Zoom and DIS will be disabled.
- Using Smart-Zoom or D-Zoom will disable/make in-active WDR.
- Picture quality degrades when using the digital zoom functions.

Auto Focus / Zoom Cameras Only

LENS

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

► INDOOR

Select for indoor installations. Fixed electronic shutter.

► OUTDOOR

Select for outdoor installations. Automatic electronic shutter.

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.

EXPOSURE	
1. SHUTTER	AUTO
2. AGC	15
3. SENS-UP	AUTO ↓
4. BRIGHTNESS	40
5. BLC	OFF
6. ACCE	OFF
7. DEFOG	OFF

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

► SHUTTER

Selectable automatic or manual shutter speeds.

- **AUTO** : Select this to control the shutter speed automatically, depending on the ambient illumination of the subject.
- **FLK** : Select this when you experience picture flicker, which can happen when there is a clash with the frequency of the installed lighting.
- **MANUAL** : You can control the shutter speed manually.
(1/240-1/50,000 / x2-x30)

► AGC (AUTO GAIN CONTROL)

The higher the gain level, the brighter the screen, but the higher the noise.

► SENS-UP

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

- **OFF** : Deactivates the SENS-UP function.
- **AUTO** : Activates the SENS-UP function.



Notes

- SENS-UP may be disabled depending on manual SHUTTER settings.
- When SENS-UP is set to 'AUTO' mode, you can adjust the brightness by increasing or decreasing the shutter speed. (x2-x30)
- 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.

EXPOSURE

► BRIGHTNESS

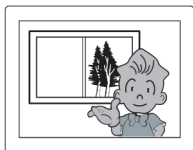
Adjusts the video brightness (1-100).

► BLC

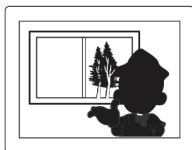
This function is useful for adjusting areas of interest that appear too bright or too dark due to bright lighting conditions.

• 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.

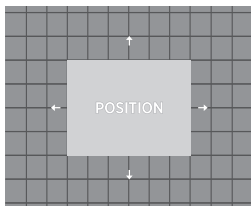
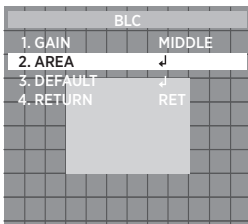


BLC ON



BLC OFF

- GAIN : Adjust the amount of gain to be applied to the BLC area.
- AREA : Adjust the position and size of the BLC area.



- 1) Position the white box to the desired area, then press SET.
- 2) Adjust the size of the area, then press SET.
- 3) Once you have the desired location and size of the BLC AREA set, choose 'RET' (Return) to apply changes. Choose 'AGAIN' to start over to make any needed adjustments to the area.

- DEFAULT : Restores default BLC settings.



Notes

- While using the BLC function, it is possible to have the bright portion of the scene appear overexposed.

EXPOSURE

• HSBLC (HIGHLIGHT SUPPRESSION BACK LIGHT COMPENSATION)

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



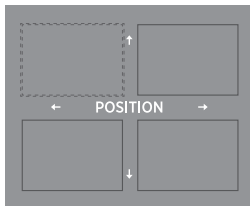
HSBLC ON



HSBLC OFF

- SELECT : Select the desired HSBLC area, 1-4.
- DISPLAY : Turn 'ON' or 'OFF' the selected HSBLC area.

HSBLC	
1. SELECT	AREA1
2. DISPLAY	ON ↓
3. LEVEL	20
4. MODE	ALL DAY
5. BLACK MASK	ON
6. DEFAULT	↓
7. RETURN	RET



- 1) Position the flashing box to the desired area, then press SET.
- 2) Adjust the size of the area, then press SET.
- 3) Once you have the desired location and size of the HSBLC AREA set, choose 'RET' (Return) to apply changes. Choose 'AGAIN' to start over to make any needed adjustments to the area.

- LEVEL : Adjust the level of the HSBLC function. The lower the level, the more sensitive the HSBLC function becomes.
- MODE : Adjust when the HSBLC is active, All Day or Night.
- BLACK MASK : Turn 'ON' or 'OFF' the HSBLC mask.
- DEFAULT : Restores default HSBLC settings.



Notes

- For effective license plate observation, it needs minimum illumination and fast shutter speed more than 1/200sec.

EXPOSURE

► **ACCE (ADAPTIVE COLOR CONTRAST ENHANCEMENT)**

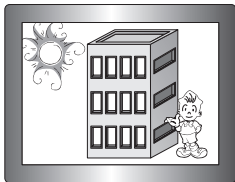
Enhance the overall color contrast of the image.

► **DEFOG**

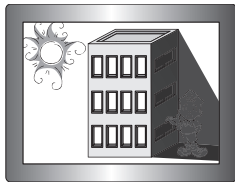
Images in extraordinary environments such as fog or rain or in a very strong luminous intensity have DR (dynamic range) lower than ordinary images. This function is a contrast enhancement, which is used to overcome such shortcomings.

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.



WDR ON



WDR OFF











Notes

- 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.

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).

9000-10000°K		Rainy
6500-8000°K		Cloudy
5000-6500°K		Partly Cloudy
5000-5500°K		Sunny
4000-5000°K		Fluorescent lamp
3000-4000°K		Halogen lamp
2500-3500°K		Tungsten lamp
1000-2000°K		Candlelight

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

- ▶ **ATW (AUTO TRACKING WHITE BALANCE)**
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 and press the SET button.
- ▶ **MANUAL**
Select this to fine-tune white balance manually. Red/Blue gain values adjustable.
- ▶ **AWB (AUTO WHITE BALANCE)**
Select this to set the white balance for only one particular environment. More accurate than ATW, but has to be reset manually when there is a change in ambient color temperature.






Notes

- **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.

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.

MAIN MENU	
1. LENS	DC ↓
2. EXPOSURE	↓
3. WDR	OFF
4. WHITE BAL	ATW
5. DAY & NIGHT	AUTO ↓
6. NR	↓
7. SPECIAL	↓
8. ADJUST	↓
9. RESET	↓
10. EXIT	↓

D & N AUTO	
DELAY	 6
2. D→N (AGC)	 21
3. N→D (AGC)	 20
4. RETURN	RET

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.

- **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.
- **D→N/N→D LEVEL** :Set the light level that triggers automatic switching from day to night / night to day.

► COLOR

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

► B/W

The image is always displayed in black and white. You can turn on or off the burst signal on B/W mode. Automatic switching does not occur.

- **BURST** : Alters the color burst information passed to the video monitor. Since this is B/W mode, it doesn't effect color but can effect gain.
- **IR SMART** : The IR SMART menu lets you select an area on screen where IR light can be detected. The 'LEVEL' slidebar controls signal gain in the area you define.

► EXT

This mode is used for cameras that have an external D/N filter, typically IR LED equipped cameras.

NR (Noise Reduction)

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

MAIN MENU	
1. LENS	DC ↓
2. EXPOSURE	↓
3. WDR	OFF
4. WHITE BAL	ATW
5. DAY & NIGHT	AUTO ↓
6. NR	↓
7. SPECIAL	↓
8. ADJUST	↓
9. RESET	↓
10. EXIT	↓

2D & 3D NR	
1. 2DNR	ON
2. 3DNR	ON ↓
3. RETURN	RET

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

▶ **2DNR**

Reduces noise in the brightness of the image.

▶ **3DNR**

Reduces noise caused by movement.

- **SMART NR** : Activates & deactivates 2DNR & 3DNR automatically depending on the environment. Activates only when motion is present/detected.
- **LEVEL** : The higher the level, the more noise is filtered out.
- **S-LEVEL** : Set the start level of the 3DNR function.
- **E-LEVEL** : Set the end level of the 3DNR function.

3DNR	
1. SMART NR	OFF
2. LEVEL	85
3. S-LEVEL	0
4. E-LEVEL	0
5. RETURN	RET



Notes

- When adjusting the noise reduction level in 3DNR mode, remember that the higher the level is set, the greater the reduction in noise level, as well as the brightness of the image.

SPECIAL

This function includes special features that allow you to assign a name for the camera, highlight motion events, as well as adding privacy masks and the option to change the language displayed.

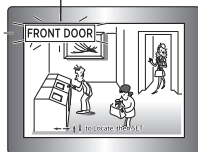
From the main menu, scroll to **SPECIAL** and press the **SET** button to access the sub-menu.

► CAM TITLE

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



Camera Title



- 1) 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 15 letters.
- 3) Enter a title, move the cursor to **'POS'** and press the **SET** button. The entered title appears on the screen. Select the position to display the title on the screen by using the 4 direction buttons and press the **SET** button.
- 4) When the position is determined, select **'END'** and press the **SET** button to return to the **SPECIAL** menu.



Notes

- When the **CAM TITLE** menu is **'OFF'**, no title will be displayed on the monitor even if you enter one.
- If you move the cursor to **CLR** and press the **SET** button, all the letters are deleted.
- To edit a letter move the cursor to the bottom left arrow and press the **SET** button. Next move the cursor over the letter to be edited, then move the cursor to the letter to be inserted and then press the **SET** button.

SPECIAL

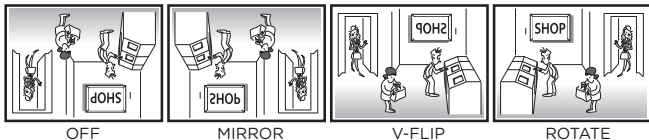
► D-EFFECT

- **FREEZE** : Pause the image or reactivate it.

- **MIRROR**

You can reverse/flip the image from the camera on your monitor.

- **MIRROR** : Vertical flip.
- **V-FLIP** : Both horizontal and vertical flip.
- **ROTATE** : Horizontal flip.



- **D-ZOOM**

Enable and adjust the level of digital zoom.

- **SMART-ZOOM**

Motion activated Digital Zoom (x1-x10) to a specified area. Useful for zooming to an area of interest, such as a doorway, while still being able to monitor the surrounding area.



Notes

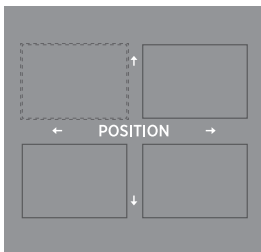
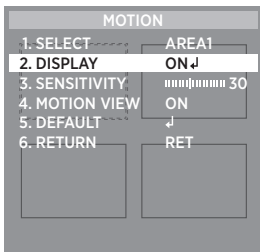
- Enabling any one of the Digital Zoom effects; D-ZOOM, or Smart-Zoom will disable the other one. IE; if Smart-Zoom is enabled, D-Zoom will be disabled.
- Using Smart-Zoom of D-Zoom will disable/make in-active WDR.
- Picture quality degrades when using the digital zoom functions.

SPECIAL

► MOTION

Monitor activity more efficiently with this feature by means of highlighting moving objects with a color overlay and displaying the word “MOTION.”

- **SELECT** : Select up to 4 areas to highlight motion.
- **DISPLAY** : Turn ‘ON’ or ‘OFF’ the motion detection area, as well as adjust the position and size of the area.



- 1) Position the flashing box to the desired area, then press SET.
- 2) Adjust the size of the area, then press SET.
- 3) Once you have the desired location and size of the MOTION AREA, choose ‘RET’ (Return) to apply changes. Choose ‘AGAIN’ to start over to make any needed adjustments to the area.

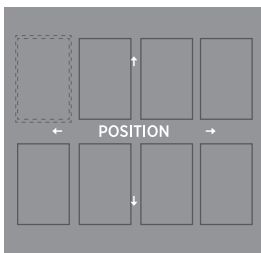
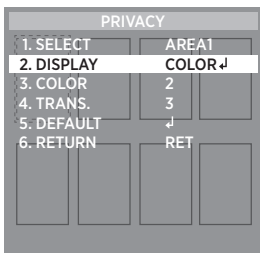
- **SENSITIVITY** : The lower the value the more sensitive the camera will be to motion.
- **MOTION VIEW** : Turn ‘ON’ or ‘OFF’ the colored overlay, “MOTION” still displayed on the screen.
- **DEFAULT** : Restores default MOTION settings.

SPECIAL

► PRIVACY

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.

- **SELECT** : Select up to 8 privacy areas, the selected area will be flash and be displayed with a thin white outline.
- **DISPLAY** : Choose to have the selected privacy area be shown in COLOR, MOSAIC or INV (Inverted). Position and size of the privacy area are adjustable upon entering the submenu.



- 1) Position the selected area to the desired location, then press SET.
- 2) Adjust the size of the area, then press SET.
- 3) Once you have the desired location and size of the PRIVACY area, choose 'RET' (Return) to apply changes. Choose 'AGAIN' to start over to make any needed adjustments to the area.

- **COLOR** : Select from 16 different colors.
- **TRANS.** : Adjust the transparency of the color.
- **DEFAULT** : Restores default PRIVACY settings..

SPECIAL

► LANGUAGE

Choose from English, Japanese, Chinese, Korean, German, Français, Italiano, Español, Polish, Russian, Português, Dutch, Turkish, Hebrew, or Arabic. Scroll LEFT or RIGHT to the desired language and press the SET button to apply language to the OSD menu.

► DEFECT

Sensors could have defects for something wrong in the process of their storage or manufacturing process. Such defects are called dead pixels, which consist of two types: static dead pixel and dynamic dead pixel. The first can be found from the beginning while the second is found over time after using sensors for a certain period of time. Dynamic dead pixels may not be visible on the screen of ordinary illumination. However, they can be made visible by amplifying the analog/digital gain. Dead pixel correction (DPC) corrects such defects.

- **LIVE DPC** : Automatic Dead Pixel Correction.
 - LEVEL : Level of auto Dead Pixel Correction.
- **STATIC DPC** : Manual Defect; OFF/ON.
 - START : Start Defect compensation; follow the on-screen instructions.
 - LEVEL : Level of Manual Defect.
 - SENS-UP : Compensates for defects while SENS-UP is activated. The higher the level, the more defects will be compensated.



Notes

- Dead pixels are very rare and almost never occur, and when they do it usually takes years before they develop. Unfortunately there is no way to predict their occurrence, but when (and if) they do it's very uneconomical to replace a good camera because a tiny pixel is locked permanently white, for instance. Most users will never use this feature.

► UTC MODE

Set to MODE 2 if using CE-REMOTE-UTC. Camera must be connected to an ANALOG source (such as a test monitor) to use the CE-REMOTE-UTC. While connected to analog, some camera OSD features will not display correctly.

* *CE-REMOTE-UTC sold separately*

ADJUST

This function provides additional options to help with how the image is displayed on the screen.

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

▶ **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.

▶ **MONITOR**

Select to adjust for LCD or CRT monitors; adjustable gain levels.

▶ **LSC (LENS SHADING COMPENSATION)**

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

▶ **VIDEO OUT**

Select NTSC or PAL composite video signal.

▶ **RESOLUTION**

Select either HD (720) or FULL-HD (1080) composite video signal.

▶ **FRAME RATE**

Select the desired frame rate: 30p / 60p / 60i

RESET

From the main menu, scroll to **RESET** and press the **SET** button to reset all camera settings to the factory default settings.

EXIT

From the main menu, scroll to **EXIT** and press the **SET** button 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.	<ul style="list-style-type: none">• Check the power connection.• Check the video signal line connection. (HD-SDI, Composite)• When the camera's HD-SDI BNC output is directly connected to the DVR's or monitor's BNC terminal: Make sure the DVR or monitor supports HD-SDI signal input• 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.	<ul style="list-style-type: none">• Check if the lens is clean. Clean the lens with a clean cloth.• 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 style="list-style-type: none">• Adjust the contrast feature of the monitor.• Adjust the BRIGHTNESS level of the EXPOSURE.• If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals.
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	<ul style="list-style-type: none">• Check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage keeps changing.

TROUBLESHOOTING

Problem	Solution
The MOTION function is not working.	<ul style="list-style-type: none">• Check if the DISPLAY mode is turned on.• Check if the SENSITIVITY level is too low.
Colors are not quite right.	<ul style="list-style-type: none">• Check the WHITE BAL setting.• Perform AWC→SET.
The screen is flickering.	<ul style="list-style-type: none">• Check if the camera is facing directly into sunlight or fluorescent light. Move the camera 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 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.
COLOR (Day&Night) mode is not working.	<ul style="list-style-type: none">• Check the delay in the DAY&NIGHT 'AUTO' sub-menu.
SENS-UP function is not working.	<ul style="list-style-type: none">• Check if SENS-UP is set to AUTO.• 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.

Coax Cable Testing:

It is advised to use a signal generator (CE-SDIGEN) and a cable tester (CE-SDITEST) 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.

** 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



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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