GE
Security

GEC-EVR/GEC-EVR-DN
User Manual
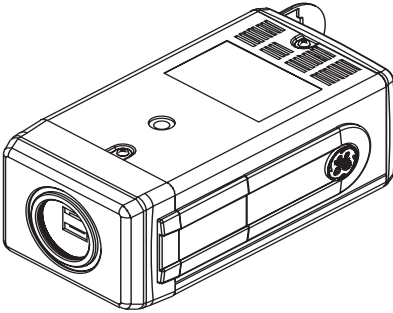
GE imagination at work

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Contents

Chapter 1   Introduction

This chapter provides an overview of your GEC-EVR/GEC-EVR-DN, including minimum hardware/software requirements and steps you need to perform before you begin installing, configuring, and using your GEC-EVR/GEC-EVR-DN.

In this chapter:

Product overview

This color CCD video camera series employs a 1/3-inch charge-coupled device (CCD) solid-state imaging device with 470k/410k picture elements, and equipped with a newly developed digital signal processor (DSP) for processing the video signals.

A micro-controller is also introduced to provide high quality, high color reproduction, and a sharp, crisp picture.

Figure 1. Camera overview
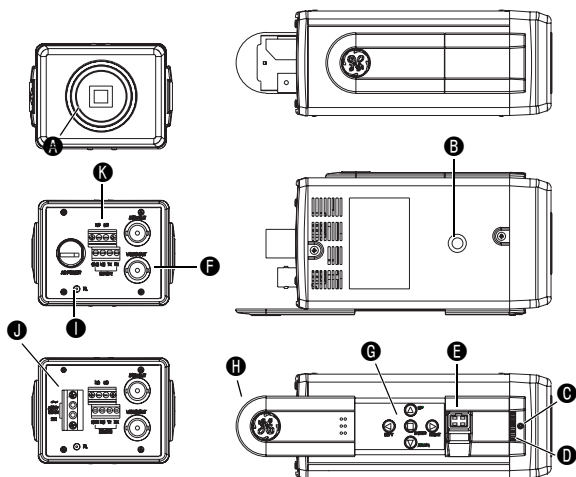
- **A** C (CS) mount adapter. If a CS-mounted lens is used, remove the C mounting ring.

- **B** Standard photographic pan head screw size (1/4 in. - 20).

- **C** Focal length locking screw.

- **D** Backfocus thumb wheel.

- **E** Autoiris lens connector. For more information, see *Autoiris lens connector* on page 4.

F Video output terminal.

G Onboard controls.

H Slide out cover.

I Power pilot LED.

J 12 VDC/24 VAC block terminal. This terminal accepts 12 VDC (nonparity) or 24 VAC. The other model accepts 100 - 240 VAC.

K OSD remote control connector.

Autoiris lens connector

If your autoiris lens has a built-in EE amp (video type), set the *LIGHT CNTL* to **Video lens**. With this setting, the connector in *Figure 2* on page 5 should be wired as shown in *Table 1*.

Table 1.   Built-in EE amp pinout

Pin	Description
1	Power (red)
2	NC
3	Video (white)
4	Ground (black)

If your autoiris does not have a built-in EE amp (DC type), set the *LIGHT CNTL* to **DC lens**. With this setting, the connector in *Figure 2* should be wired as shown in *Table 2*.

Table 2.   No built-in EE amp pinout

Pin	Description
1	Damping coil (+)
2	Damping coil (-)
3	Driving coil (+)
4	Driving coil (-)

Figure 2.   Autoiris pins
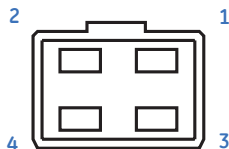
Chapter 2   Controls

This chapter provides an overview of your GEC-EVR/GEC-EVR-DN controls.

In this chapter:

Controls

You can configure the camera through either the onboard controls, or by an RS-232 connection to a PC.

Onboard controls

Use the onboard up, down, left, right, and enter buttons (*Figure 3*) to make selections on the onscreen menus.

Figure 3.   Onboard controls
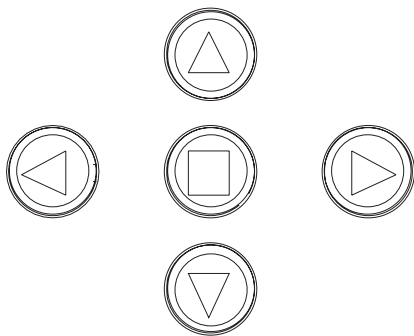
PC configuration

To configure the camera with a PC, you'll need to connect them through an RS-232 connection.

RS-232

To connect the camera to an RS-232 cable, do the following:

1. Connect the RX terminal to pin 3 on a DB9 connector (*Figure 4*).

Figure 4. RS-232 connection
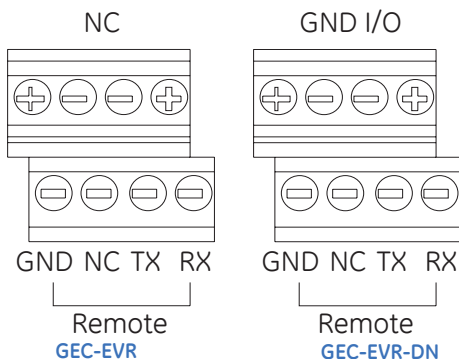
2. Connect the TX terminal to pin 2 on a DB9 connector.

3. Connect the GND terminal to pin 5 on a DB9 connector.

   Note: The NC terminal does not connect to anything.

PC

To configure the camera with a PC, do the following:

1. Connect the DB9 connector to the serial port (COM1) of your PC.

2. In a Windows 95/98/ME/2000/XP system, insert the floppy disk that came with the camera into the floppy disk drive.

3. Click **Start** > **Run** > **Browse**. Navigate to the disk drive, and double-click the *OSD_CONT.EXE* file.

4. The OSD Control program will display on your screen (*Figure 5* on page 11).

Figure 5. The OSD program.
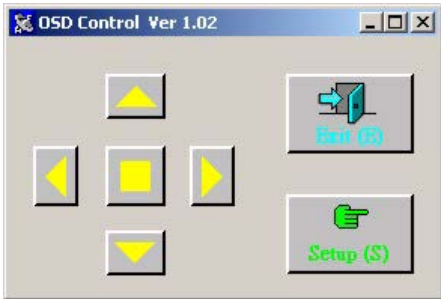
5. Click the center button to display the *Main Menu* on the display monitor. Use the arrow buttons or your PC's keyboard to navigate and select menu items.

6. Click on *Exit* to close the program.

Note: Try the following steps if the OSD Control program doesn't function as stated.

- Make sure the RS-232 cable is wired correctly.
- Run the *patch.exe* program on the provided floppy disk.
- Click on the **Setup (S)** button to make sure the correct COM port is selected.

I/O port

The I/O port can receive a signal from an external device to switch between day or night mode. For more information, see *External day to night menu* on page 27.

This is only for use with the GEC-EVR-DN.

Chapter 3   Menus

This chapter provides an overview of your GEC-EVR/GEC-EVR-DN menus.

In this chapter:

Setup menus

The camera is configured through the setup menus which appear onscreen.

Main menu

To access and navigate the main menu, press the **Enter** button on the camera (*Figure 1* on page 3 and *Table 3* on page 15). Then you can use the **Up** or **Down** keys to move between items, and press **Enter** again to select the option (*Figure 6* on page 15).

Figure 6.   Main menu

```
        SETUP MENU

  ▷ CAMERA ID          OFF
    LIGHT CNTL        DC LENS
    WHITE BAL          ATW
    PICTURE
    D/N CNTL*
    FOCUS ADJ
    MISC


    END  INIT  |  UNLOCK
```
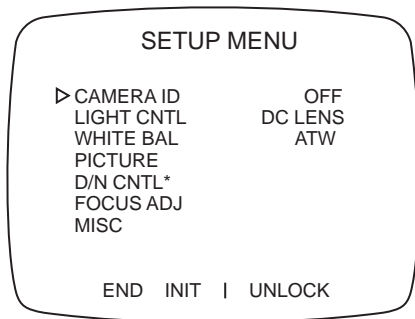
Table 3.   Main menu options

Menu option	Description
Camera ID	Camera identification.
Light cntl	Options for light control.
White bal	Options for white balance controls.
Picture	Options for video display controls.
D/N cntl	Options for day/night controls. **Note:** This is only for use with the GEC-EVR-DN.

Table 3.   Main menu options (continued)

Menu option	Description
Focus adj	Focus adjustment screen.
Misc	Adjust synchronization and lens applications.
End	Exits the menu.
Init	Returns all settings to factory default. Do this only when necessary.
(up arrow)	Adjust menu positioning.
Unlock	Lock or unlock the setup menu. **Note:** To enter the unlock password, press **Up**, **Down**, **Down**, **Right**, and **Enter**.

Note: If you don't press a button for 2 minutes, your changes are saved, and the camera returns to its normal function.

Camera ID

You can set a camera ID to display on the monitor's screen. To set the camera ID, do the following:

1. On the main menu, move the cursor to **Camera ID** and press the **Enter** button.

2. Using the **up**, **down**, **left**, or **right** keys, highlight the characters you want to display. Press the **Enter** button to select the characters (*Figure 7*).

Figure 7. Camera ID character selection

```
          CAMERA ID

 0  1  2  3  4  5  6  7  8  9  :
 A  B  C  D  E  F  G  H  I  J  K
 L  M  N  O  P  Q  R  S  T  U  V
 W  X  Y  Z  a  b  c  d  e  f  g
 h  i  j  k  l  m  n  o  p  q  r
 s  t  u  v  w  x  y  z     ,  .

        RET  POSI  — —
```
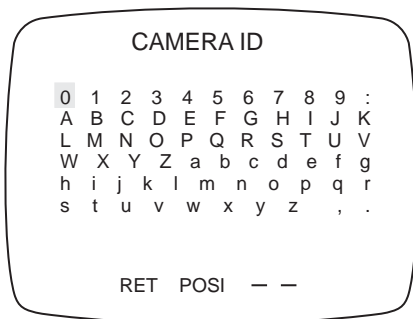
3. Press **Left** or **Right** to move and edit a specific character in the editing area.

4. Use the blank character between the **z** and **,** to delete the last character entered.

5. Select the **Posi** option to move the position of the camera ID with the

directional keys. When done, press **Enter**.

6. When finished, select the **Ret** option to return to the main menu.

Light control

You can adjust the camera's light control. To change the light control option on the main menu, move the cursor to **Light Cntl** and press **Left** or **Right** to select the mode (DC Lens, Video Lens, AES, ME, or AI Shutter). Then press **Enter** to access that mode's menu.

DC lens menu

Table 4 lists the DC lens menu options.

Table 4.   DC lens menu options

Menu option	Description
Iris window	Adjust the auto-iris level ranging from 0 to 10.
Flickerless (NTSC only)	When set to on, the shutter speed is changed from 1/60 second, to 1/100 second

Table 4. DC lens menu options (continued)

Menu option	Description
Av:Pk (for all AE mode)	Adjust the value by pressing **Left** or **Right**. Av stands for average photometric method. Pk stands for peak photometric method.
	A greater Av value automatically adjusts the electronic convergence with the average video signal level of the object as the correct photometric value.
	A greater Pk value automatically adjusts the electronic convergence with the peak video signal level of the object as the correct photometric value.
	We recommend you adjust the settings on a DC iris lens after you set the level.
	Range: 0:12, 1:11, 2:10, 3:9, 4:8, 5:7: 6:6, 7:5, 8:4, 9:3, 10:2, 11:1, 12:1. The default is 8:4.

Video lens menu

Table 5 lists the video lens menu options.

Table 5.   Video lens menu options

Menu options	Description
Flickerless (NTSC only)	When on, shutter speed can range from 1/60 second, to 1/100 second

Table 5.   Video lens menu options (continued)

Menu options	Description
Av:Pk	Adjust the value by pressing **Left** or **Right**. Av stands for average photometric method. Pk stands for peak photometric method.
	A greater Av value automatically adjusts the electronic convergence with the average video signal level of the object as the correct photometric value.
	A greater Pk value automatically adjusts the electronic convergence with the peak video signal level of the object as the correct photometric value.
	We recommend you adjust the settings on a DC iris lens after you set the level.
	Range: 0:12, 1:11, 2:10, 3:9, 4:8, 5:7: 6:6, 7:5, 8:4, 9:3, 10:2, 11:1, 12:1. The default is 8:4.

AES menu

Table 6 lists the AES menu option.

Table 6. AES menu options

Menu option	Description
Av:Pk	Adjust the value by pressing **Left** or **Right**. Av stands for average photometric method. Pk stands for peak photometric method.
	A greater Av value automatically adjusts the electronic convergence with the average video signal level of the object as the correct photometric value.
	A greater Pk value automatically adjusts the electronic convergence with the peak video signal level of the object as the correct photometric value.
	We recommend you adjust the settings on a DC iris lens after you set the level.
	Range: 0:12, 1:11, 2:10, 3:9, 4:8, 5:7: 6:6, 7:5, 8:4, 9:3, 10:2, 11:1, 12:1. The default is 8:4.

ME menu

Table 7 lists the ME menu options.

Table 7.   ME menu options

Menu options	Description
Shutspeed	Adjust the shutter speed between 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1000, 1/2000, 1/5000, and 1/10000 sec.
Gain	Adjust the gain between 5, 13, 22, and 30 dB.

AI shutter menu

Table 8 lists the AI shutter menu options.

Table 8.   AI shutter menu options

Menu options	Description
Shutspeed	Adjust the shutter speed between 1/60 (1/50), 1/100 (1/120), 1/250, 1/500, 1/1000, 1/2000, 1/5000, and 1/10000 sec.

Table 8.   AI shutter menu options (continued)

Menu options	Description
Av:Pk	Adjust the value by pressing **Left** or **Right**. Av stands for average photometric method. Pk stands for peak photometric method.
	A greater Av value automatically adjusts the electronic convergence with the average video signal level of the object as the correct photometric value.
	A greater Pk value automatically adjusts the electronic convergence with the peak video signal level of the object as the correct photometric value.
	We recommend you adjust the settings on a DC iris lens after you set the level.
	Range: 0:12, 1:11, 2:10, 3:9, 4:8, 5:7: 6:6, 7:5, 8:4, 9:3, 10:2, 11:1, 12:1. The default is 8:4.

Day/night control

You can adjust the camera's day/night controls.
To adjust the controls, do the following:

Note: This is only for use with the GEC-EVR-DN.

1. On the main menu, move the cursor to
   D/N CNTL (*Figure 8*)and press **Left** or
   Right to choose between *LUX/DELAY*,
   SCHEDULE, *EXTERNAL*, *DAY MODE*,
   and *NIGHT MODE*.

Figure 8. Day/night menu

```
            D/N  MENU

  ▷ D/N TYPE         LUX/DELAY




         RETURN
```
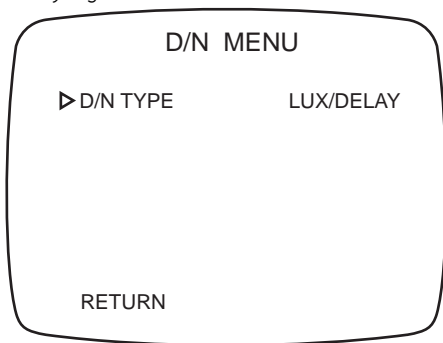
2. Once you've chosen a mode, press
   Enter to access the mode's submenu.

Lux/delay menu

Table 9 lists the lux/delay menu options.

Table 9.   Lux/delay menu options

Menu options	Description
D ➔ N LEVEL	Press **Left** or **Right** to adjust the light level at which the camera switches from day mode to night mode.
N ➔ D LEVEL	Press **Left** or **Right** to adjust the light level at which the camera switched from night mode to day mode.
DELAY TIME	Set the delay time that dictates how long after the camera has detected the appropriate level of light or dark to switch modes. You can set from five to 60 seconds.

Schedule menu

Table 10 lists the schedule menu options.

Table 10. Schedule menu options

Menu options	Description
D ➜ N TIME	Set the HOUR and MIN at which the camera will switch from day mode to night mode.
N ➜ D TIME	Set the HOUR and MIN at which the camera will switch from night mode to day mode.
CHOICE D/N TYPE	Press **Enter** to switch between day or night mode.

Note: If the *D ➜ N TIME* and *N ➜ D TIME* are identical, the camera will automatically add one minute to the *N ➜ D TIME*.

External day to night menu

This function allows you to set whether the camera switches to night mode by HI potential (+5 V) or LOW potential (0 V). When finished, move the cursor to *RETURN* and press **Enter**.

Day mode

This switches the camera to day mode.

Night mode

This switched the camera to night mode.

White balance

You can adjust the camera's white balance. To adjust the white balance, do the following:

1. On the main menu, move the cursor to *WHITE BAL* and press **Left** or **Right** to change between *ATW*, *PRESET*, *PTL* (Push to Lock), and *AWB* (*Table 11*).

2. On the *PRESET* and *PTL* options, press **Enter** to access a submenu.

Table 11. White balance menu options

Menu options	Description
ATW	Automatic tracking white balance.
Preset	Choose the fixed color temperature between *Indoor*, *Outdoor*, and *Fluorescent*.
PTL	Push to lock white balance. When you press **Enter**, the camera will process the white balance. The display will change from *PTL PUSH* to *PTL SETTING*. When the display changes back to *PTL PUSH*, the process is complete and you can exit the menu.
AWB	Full range automatic white balance.

Picture control

You can make adjustments to the camera's picture. To make adjustments, on the main menu, move the cursor to *PICTURE* and press **Enter** to access the *PICTURE* menu (*Figure 9* on page 30 and *Table 12* on page 30).
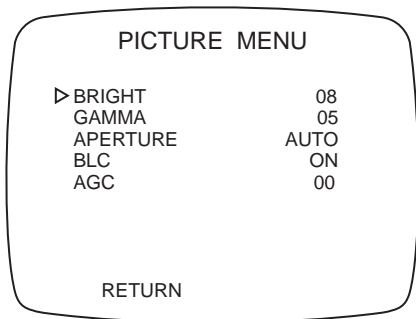
Figure 9.   Picture menu

```
    ┌─────────────────────────┐
    │      PICTURE  MENU       │
    │                          │
    │  ▷ BRIGHT          08    │
    │    GAMMA           05    │
    │    APERTURE      AUTO    │
    │    BLC             ON     │
    │    AGC             00    │
    │                          │
    │                          │
    │        RETURN            │
    └─────────────────────────┘
```

Table 12.   Picture control menu options

| Menu options	Description
Bright	Move the cursor to the *BRIGHT* position and press **Left** or **Right** to change the brightness.
Gamma	Move the cursor to the *GAMMA* position and press **Left** or **Right** to choose from 9 settings.

Table 12.   Picture control menu options (continued)

Menu options	Description
Aperture	Move the cursor to the *APERTURE* position and press **Left** or **Right** to choose from *00*, *09*, and *AUTO* for your aperture. **Note:** We recommend you use *AUTO* as your default aperture setting. Otherwise, you may see large amounts of noise in a low-light environment.
BLC	Move the cursor to the *BLC* position and press **Left** or **Right** to turn backlight compensation on or off.
AGC	Move the cursor to the *AGC* position and press **Left** or **Right** to adjust the bright level low light condition.

Focus adjustment

You can make adjustments to the camera's back focus. To make adjustments, do the following:

1. On the main menu, move the cursor to *FOCUS ADJ* and press **Enter** (*Figure 10*).

Figure 10. Focus adjustment

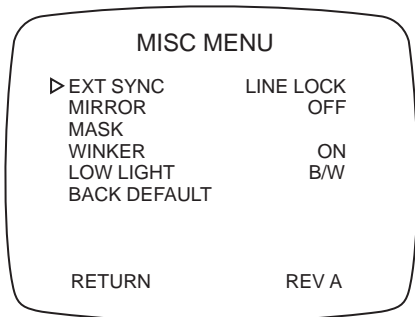
```
PLEASE ADJ FOCUS
PRESS ENTER TO EXIT
```
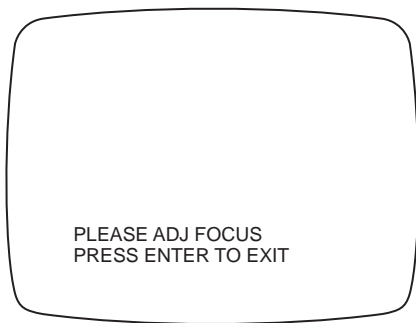
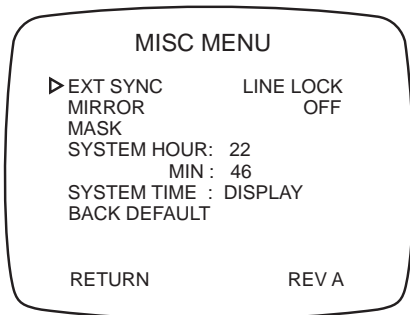2. Adjust the back focus and press **Enter** again when finished.

Misc

On the *MISC* menu, you can adjust things like the camera's synchronization and lens applications. To make these adjustments on the main menu, move the cursor to *MISC* and press **Enter** to access the *MISC* menu (*Figure 11* and *Table 13*).

Figure 11. Misc menu

```
        MISC MENU

  ▷ EXT SYNC      LINE LOCK
    MIRROR              OFF
    MASK
    WINKER               ON
    LOW LIGHT           B/W
    BACK DEFAULT


    RETURN            REV A
```

GEC-EVR

```
        MISC MENU

  ▷ EXT SYNC      LINE LOCK
    MIRROR              OFF
    MASK
    SYSTEM HOUR: 22
           MIN : 46
    SYSTEM TIME : DISPLAY
    BACK DEFAULT


    RETURN            REV A
```

GEC-EVR-DN

Table 13. Misc menu options

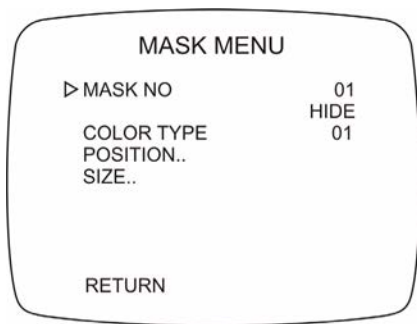| Menu options	Description
EXT SYNC	Press **Left** or **Right** to select the type of synchronization, and press **Enter** to access the external sync phase adjusting menu. Align the sync phase by pressing **Left** of **Right**.
MIRROR	Press **Left** or **Right** to turn mirroring on or off.
MASK	Masks are used to cover private areas in the camera's view. Press Enter to access the Mask menu (*Figure 12* on page 37). To set a mask, see x.
WINKER	Turn the winker on to have an indicator blink in the upper right corner of the display, signaling that the camera is on. **Note:** This is only for use with the GEC-EVR.
LOW LIGHT	Choose between color and black-and-white when in a low light environment. **Note:** This is only for use with the GEC-EVR.

Table 13. Misc menu options (continued)

Menu options	Description
SYSTEM HOUR	Set the hour of the current local time. This will affect when the day/night mode changes if you are using the schedule option for your day/night control. **Note:** This is only for use with the GEC-EVR-DN.
SYSTEM MIN	Set the minute of the current local time. This will affect when the day/night mode changes if you are using the schedule option for your day/night control. **Note:** This is only for use with the GEC-EVR-DN.
SYSTEM TIME	Display or hide the system time on the display. **Note:** This is only for use with the GEC-EVR-DN.
BACK DEFAULT	Restores the unit to the default settings.

Setting a mask

To set a mask, see *Misc* on page 33 to access the
MISC menu and do the following:

1. Press **Left** or **Right** to select the mask
    you want to edit (*Figure 12*).

Figure 12. Mask menu

```
        MASK MENU
▷ MASK NO              01
                       HIDE
   COLOR TYPE          01
   POSITION..
   SIZE..


   RETURN
```

2. Press **Down** to move to the next line, and
    then press **Left** or **Right** to turn the mask
    on or off.

3. Press **Down** to move to the next line, and
    then press **Left** or **Right** to choose the
    color of the mask (*white*, *gray*, or *black*).

4. Press **Down** to move to the next line, and then press **Enter** to set the position of the mask.

5. Press **Down** to move to the next line, and then press **Enter** to set the size of the mask.

6. Press **Down** to move to *RETURN*, and press **Enter** to exit the menu.

Chapter 4   Support

This chapter provides information to help you contact technical support in case you need assistance with your GE equipment.

In this chapter:

Contacting technical support

For assistance installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact your local supplier or visit our web site: *www.gesecurity.eu.*

Note: Be ready at the equipment before calling for technical support.