

User
Manual

KTC-115CC, -215CC, -240CCE
Compact Cameras



GE Interlogix

All Rights Reserved.

Any GE Interlogix, Kalatel division, software supplied with GE Interlogix, Kalatel division, products is proprietary and furnished under license and can be used or copied only in accordance with the terms of such license.

This document contains proprietary information that is protected by copyright. No part of this document may be reproduced or transmitted in any form or by any means without the prior written permission of GE Interlogix, Kalatel division.

The information contained in this document is subject to change without notice. GE Interlogix, Kalatel division, in keeping pace with technological advances, is a company of product innovation. Therefore, it is difficult to ensure that all information provided is entirely accurate and up-to-date. GE Interlogix, Kalatel division, accepts no responsibility for inaccuracies or omissions and specifically disclaims any liabilities, losses, or risks, personal or otherwise, incurred as a consequence, directly or indirectly, of the use or application of any of the contents of this document.

For the latest product specifications, visit GE Interlogix, Kalatel division, online at www.kalatel.com or contact your Kalatel sales representative.

For technical support before and after installation, call 800-469-1676.

Technical support is available 24 hours a day, 7 days a week.

Call:	Tech Support	800-469-1676 (6 A.M. – 5 P.M. PST Monday through Friday)
	Tech Support	541-740-3589 (all other times)
	Main	800-343-3358 or 541-754-9133
Fax:	Tech Support	541-752-9096 (available 24 hours a day)
	Main	541-754-7162
Web:	www.kalatel.com	

1040206A / December 2002

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

You are cautioned that any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

TABLE OF CONTENTS

BEFORE YOU BEGIN 4

1 BACK PANEL COMPONENTS 5

2 INSTALLING THE LENS 6

 2.1 CONNECTING AN AUTO IRIS LENS 6

3 PROGRAMMING THE DIP SWITCH 7

 3.1 SHUTTER CONTROL – (AES OR DD) 7

 3.2 BACKLIGHT COMPENSATION (BLC OFF OR ON) 7

 3.3 WHITE BALANCE (ATW/FIX) 8

 3.4 VIEW (NORMAL OR MIRROR) 8

 3.5 ZOOM (NORMAL OR E ZOOM) 8

4 INSTALLING THE CAMERA INTO A HOUSING 9

5 MAKING CABLE CONNECTIONS 10

6 MAKING ADDITIONAL ADJUSTMENTS 11

 6.1 SETTING THE AUTO IRIS LEVEL 11

 6.2 ADJUSTING THE BACK FOCUS 11

WARRANTY AND RETURN INFORMATION 13

 ADVANCE REPLACEMENT POLICY 13

BEFORE YOU BEGIN

Read these instructions before installing or operating this product.

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

This manual provides installation and operation information. To use this document, you must have the following minimum qualifications:

- A basic knowledge of CCTV systems and components
- A basic knowledge of electrical wiring and low-voltage electrical hookups

Use this product only for the purpose for which it was designed.

Customer Support

For assistance in installing, operating, maintaining, and troubleshooting this product, refer to this document and any other documentation provided. If you still have questions, contact Kalatel Technical Support:

GE Interlogix, Kalatel division

Call: 800-469-1676

Fax: 541-752-9096

Note: You should be at the equipment, ready with details before calling Technical Support.

Conventions Used in this Manual

Boldface or button icons highlight command entries. The following **WARNING**, **CAUTION**, and **Note** statements identify potential hazards:



*** WARNING:**

Improper use of this equipment can cause severe bodily injury or equipment damage.



**** CAUTION:**

Improper use of this equipment can cause equipment damage.

Note: Notes contain important information about a product or procedure.

* This symbol indicates electrical warnings and cautions.

** This symbol indicates general warnings and cautions.

1 BACK PANEL COMPONENTS

Refer to Figure 1 when performing the camera setup procedures described in the following sections.

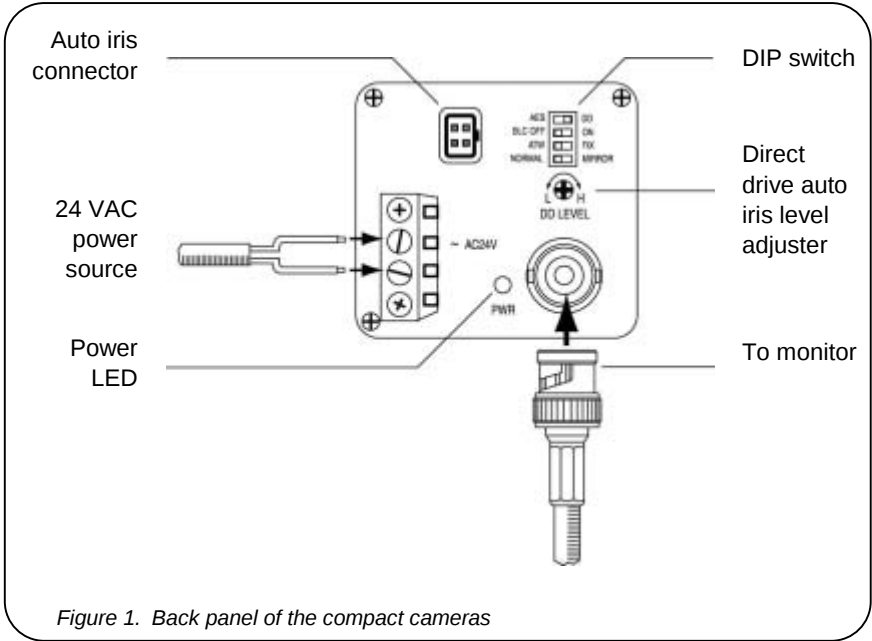


Figure 1. Back panel of the compact cameras

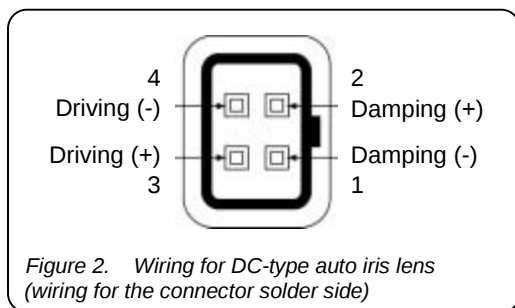
2 INSTALLING THE LENS

The KTC compact cameras will accept any CS-mount type lens. To use a C-mount type lens, add a 5mm adapter ring.

2.1 CONNECTING AN AUTO IRIS LENS

If you are using an auto iris lens, attach the lens to the camera and insert the lens plug into the auto iris connector (Figure 1).

If you are using a DC auto iris lens without a lens plug follow the connection diagram in Figure 2.



3 PROGRAMMING THE DIP SWITCH

To program the DIP switch, refer to Figure 3 or Figure 4 depending on your camera model.

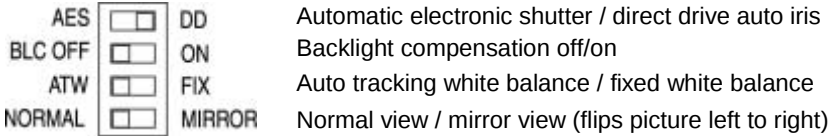


Figure 3. KTC-215CC and KTC-240CCE DIP Switch

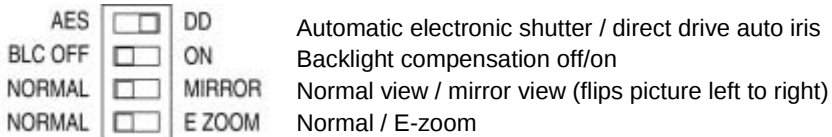


Figure 4. KTC-115CC DIP Switch

3.1 SHUTTER CONTROL – (AES OR DD)

- Automatic Electronic Shutter (AES)**
 When using a manual iris lens (no plug) the DIP switch should be set to AES. The camera will then adjust automatically to changes in light conditions.
- Direct Drive Auto Iris (DD)**
 When using a plug-in, auto iris, DC-type lens set the DIP switch to DD. In this case the camera and lens will work together to adjust to changes in light conditions. Once the camera setup is complete, see Section 6.1 for instructions on setting the auto-iris level.

3.2 BACKLIGHT COMPENSATION (BLC OFF OR ON)

Backlight compensation controls iris gain and white balance simultaneously. If you have objects in the foreground that appear silhouetted in front of a brighter background, set backlight compensation on. The foreground objects will appear with greater definition.

Note: Compensation may be insufficient when the background is extremely bright.

3.3 WHITE BALANCE (ATW/FIX)

Note: This switch is not available for the KTC-115CC

- **Auto-tracking white balance (ATW) mode**
In the ATW mode, the range of colors in the scene being monitored is tracked continuously, and the white balance is set automatically by an internal micro-controller. If the color range changes constantly, then set the switch to ATW.
- **Fixed white balance (FIX) mode**
In Fix mode, the camera uses white as its reference and automatically adjusts the content of blue and red in the picture to provide a picture with a balanced color content. If the color range of the scene being monitored remains fairly constant, then set the switch to FIX.

3.4 VIEW (NORMAL OR MIRROR)

- **Normal**
In normal mode, the video image will display on the monitor as it appears in front of the camera.
- **Mirror**
In mirror mode, the video image will be flipped horizontally before it displays on the monitor. This setting is useful if the camera is pointed at a mirror and the viewer prefers to see the scene as it appears before it is reflected in the mirror.

3.5 ZOOM (NORMAL OR E ZOOM)

Note: This switch is available only for the KTC-115CC

- **Normal**
In normal mode, the image will appear without any digital magnification.
- **E Zoom**
In E Zoom mode, the camera will digitally zoom the picture approximately three times that of normal view.

Note: The image quality is not as high in E Zoom mode as it is normal mode.

4 INSTALLING THE CAMERA INTO A HOUSING

Depending on the type of housing used, it will probably be necessary to feed the cables through the housing before connecting them to the camera. In addition, it may be helpful to install the camera into the housing before making cable connections.

For installation instructions, refer to the manual for the housing being used. If you are using a Low-Cost Housing, see the KTA-L installation instruction manual.

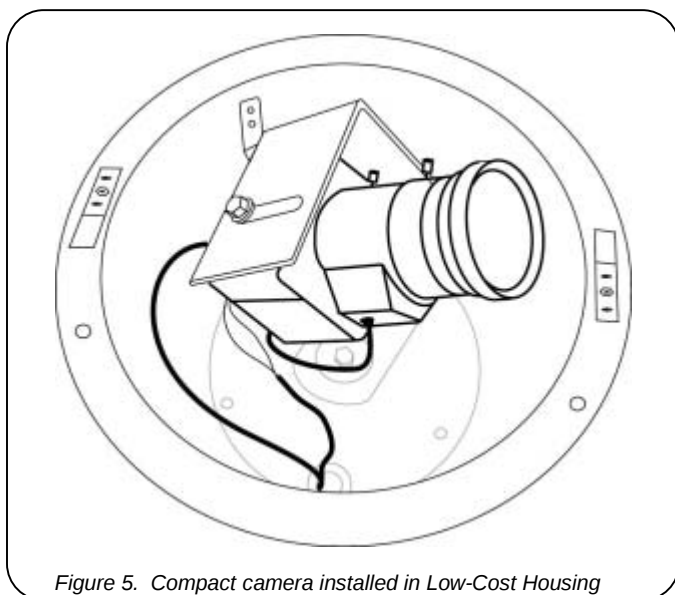


Figure 5. Compact camera installed in Low-Cost Housing

**CAUTION:**

Do not expose the camera to moisture.

5 MAKING CABLE CONNECTIONS

To connect the video and power cables, see Figure 6 and perform the following.

- 1) Attach the monitor's video in BNC connector to the camera's VIDEO OUT connector.
- 2) With a screwdriver, loosen the ~AC24V terminal connectors on the terminal block.
- 3) Connect the leads of the power source to the ~AC24V terminal connectors.
- 4) Tighten the terminal connector screws until snug, ensuring that the power leads are secure.
- 5) Provide power to the camera.

Note: The power LED should be illuminated once power is supplied to the camera. If the power LED is not illuminated, check the terminal block connections and power source.

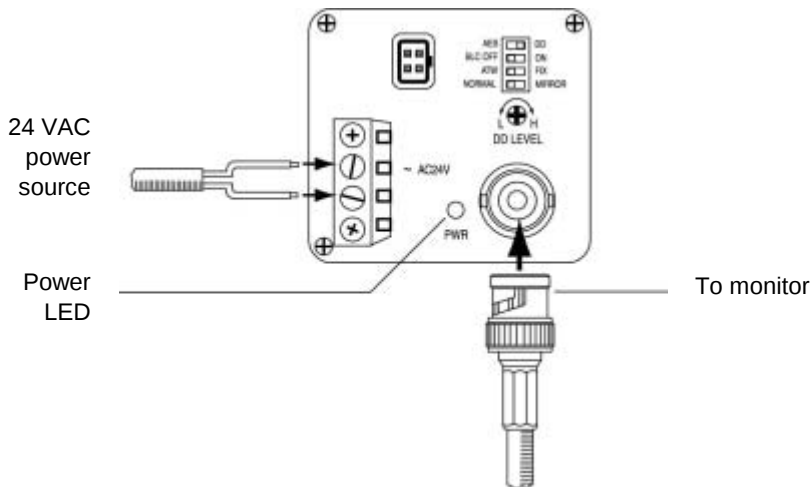


Figure 6. Power and video connections

6 MAKING ADDITIONAL ADJUSTMENTS

6.1 SETTING THE AUTO IRIS LEVEL

If you are using a plug-in, auto iris, DC-type lens, it may be necessary to make adjustments to the direct drive level to achieve a good picture in all light conditions. Use a screwdriver to rotate the direct drive auto iris level adjuster (Figure 1) to the setting appropriate for your light conditions.

6.2 ADJUSTING THE BACK FOCUS

Back focusing ensures that the image remains sharp and crisp under varied lighting conditions. It takes into account changes in the lens' depth of field and is used to match the lens' back focal length with the camera's imaging device.

Depth of field is the proportion of the field of view that is in correct focus. Depth of field will decrease when the focal length is long, the f-number is small (iris fully open), or the object distance is short.

To achieve correct back focus, adjustments should be made only under the following conditions:

- In low light—at night or in simulated low-light conditions.
- When the depth of field is at its minimum. The lens' depth of field is most narrow when the iris is fully open.

To adjust the back focus, perform the following:

- 1) Operate the camera and view an object approximately 75 ft away.
- 2) If the lens has a focus ring, set it to infinity by turning it fully clockwise as viewed from the front of the camera.
- 3) If the lens has a manual iris, set the lens iris adjustment to the widest opening or lowest f-number. If the lens has an auto iris, place a filter in front of the lens to simulate low-light conditions and force the iris to open fully.
- 4) Unscrew the back focus adjustment lock screw to ensure that the back focus adjustment ring turns.

- 5) Adjust the lens' focal position (with the filter in place, if used) by gently turning the back focus adjustment ring to achieve the sharpest image.
- 6) Retighten the back focus adjustment lock screw carefully while ensuring that the focus does not change.
- 7) Position the camera for the required view, and if needed, adjust the focus using only the focus ring on the lens.
- 8) If you are using an auto iris lens, adjust the DC level for optimum performance.

WARRANTY AND RETURN INFORMATION

GE Interlogix, Kalatel division, warrants its equipment for three years from the date of purchase. This warranty covers defects in materials and workmanship only; equipment failures that are due to improper installation, modification, abuse, or acts of nature are not covered by this warranty. The repair department will evaluate all equipment returned for repair to determine warranty coverage. The Tech Support Manager will resolve any questions that may arise during evaluation to make a final determination.

Note: The three-year warranty does not apply to the following products:

MobileView[®] and the monitor CRT, which carry a 12-month warranty from the date of purchase.

For all warranty repairs, GE Interlogix, Kalatel division, will cover all costs, including parts, labor, and shipping. Repaired equipment will be returned via the same method of shipment in which it was received. If a customer requests a faster return shipment, the difference will be charged.

For all non-warranty repairs, the customer will be billed for parts, labor, and shipping. Labor will be billed in half-hour increments.

Note: Customers requesting an estimate prior to repair will be notified by phone. If they cannot be reached, they will be notified by fax. If we are unable to reach the contact person for repair authorization after one phone attempt and two fax attempts, the equipment will be returned without being repaired. We will hold equipment no longer than two weeks.

ADVANCE REPLACEMENT POLICY

When an advance replacement is required, we will send the customer replacement equipment from our stock and receive the returned product in exchange. The received equipment will be evaluated and the repair department will determine whether it is a warranty replacement. If it is non-warranty, see our repair policy above for details. The following guidelines will be used for all advance replacements:

- Fewer than 45 days from purchase, GE Interlogix, Kalatel division, will replace the product with new equipment.
- From 45 days to 1 year from purchase, GE Interlogix, Kalatel division, will replace the product with refurbished equipment.
- From 1 year to 3 years from purchase, the product must be sent in for repair. Advance replacements will be sent for a fee of \$100.

If you have questions about this policy, please contact Kalatel's RMA department at 800-469-1676.

