

VIDEOLOGY[®]

IMAGING SOLUTIONS INC.

Operation Manual

20E709TDN3/21E709TDN3
20E709TDN3/21E709TDN3



BOX CONTENTS

1. 20E709TDN3 (NTSC) OR 21E709TDN3 (PAL) camera
2. DC Iris connector
3. Operation manual

SAFEGUARDS & WARNINGS

1. Read instructions before operating camera.
2. Avoid mounting in direct sunlight.
3. Installation and repair should be undertaken by authorized personnel only.

INSTALLATION TIPS

If the camera is to be mounted outdoors, or in hot, humid, or otherwise harsh environments, a secondary enclosure should be used.

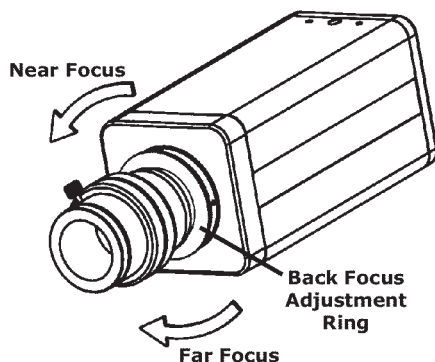
TDN (True Day/Night Feature)

The TDN feature functions automatically to reduce noise and add sensitivity at low light levels. A solenoid triggers to remove the IR cut filter. The color camera switches to a monochrome mode to optimize low light level performance.

BACK FOCUS ADJUSTMENT

Adjust the back focus only if the lens is not operating within its specified focal range (i.e. 1.0m ~ infinity).

1. Loosen the two allen head screws on the lens collar using a allen key (not provided).
2. To properly back focus the lens, turn the back focus ring counter clockwise to reduce the focal point, or clockwise to increase the focal point, until the desired focus is attained.
3. Tighten the two allen head screws with a allen key (not provided).



CONNECTORS AND CONTROLS

Connectors

1. CVBS Output

BNC connector for composite video (CVBS) signal output.

2. A-IRIS - Auto Iris Connector

This camera works with a DC auto iris lens or a video lens. Please refer to the pin assignment when connecting the auto iris lens.

3. 12VDC / 24VAC Power Terminal

Controls

A. AGC

For adjusting the sensitivity of the camera.

ON	Default setting
OFF	Set this when there is excessive noise at low light levels

B. White Balance

ON	(AWC) - for light source below 2500K and over 9500K color temp.
OFF	(ATW) - for light source between 2500K and over 9500K of fluorescent lamp or incandescent light

C. Flicker

Correct screen flickering that occurs when positioned under fluorescent lights that use a 50Hz power supply frequency.

ON	Under 50Hz fluorescent lights
OFF	Default setting

D. Backlight Compensation

ON	Set this when scene behind object is bright
OFF	Default setting

E. Synchronization

ON	(INT) - Internal mode
OFF	(L/L) - Line lock mode

F. ALC

If the entire image is too dark or bright, or the backlight compensation is not correct even after it is set "ON", you need to adjust the ALC level.

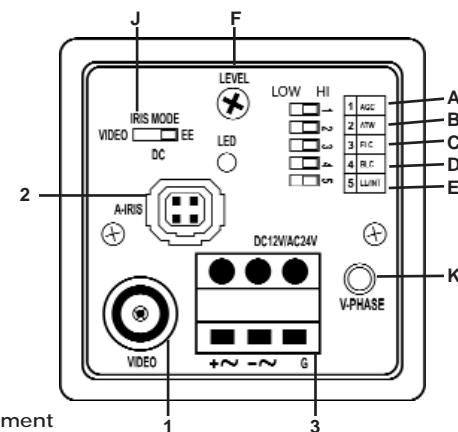
(LOW)	Closes the lens iris, making the entire image darker
(HIGH)	Opens the lens iris, making the entire image brighter

J. Iris Mode

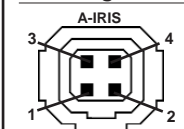
Video	Video lens
DC	DC-type auto-iris lens
EE	The default setting when a fixed iris lens is installed

K. Line Lock Control

Line lock phase control switch.



Pin Assignment



- | | |
|--------------------------|-----------------------|
| Video Driven (AI) | DC Driven (DC) |
| 1. +8.5 V DC | 1. Control - |
| 2. NC | 2. Control + |
| 3. Video signal | 3. Drive + |
| 4. GND | 4. GND |