

# VIDEOLOGY<sup>®</sup>

IMAGING SOLUTIONS INC.

## Operation Manual

20E407T3\* (NTSC) / 21E407T3 (PAL)  
M14 Board Mount Lens

20E409T3 (NTSC) / 21E409T3 (PAL)  
CS Mount Lens



## BOX CONTENTS

1. Camera module
2. Connection cable
3. User manual

## SAFEGUARDS & WARNINGS

Prior to installation and use of this product, the following WARNINGS should only be observed.

1. Installation and servicing should only be done by Qualified Service and Installation Personnel.
2. Installation shall be done in accordance with all local and national electrical and mechanical codes.
3. Use only installation methods and materials capable of supporting four (4) times the maximum specified load.

*\*Only engineering samples have classic 4-pin DC iris pinout connector for evaluation ease.*

11/26/08 INS-20E407T3 Rev B

## Camera Settings Dip switch:

No	Function	Off	On
1.	BLC	BLC Off	BLC On
2.	AE/ME	Auto Exposure	Mech Exp/DC Iris
3.	ATW/AWC	ATW	AWC
4.	AGC	AGC Off	AGC On

## TDN (True Day/Night Feature)

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

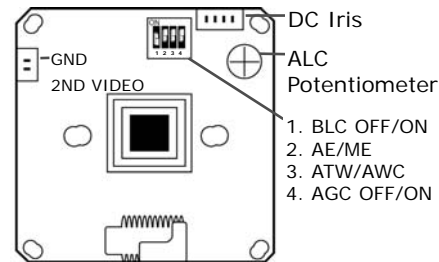
## Camera Functions

### Connectors and Controls

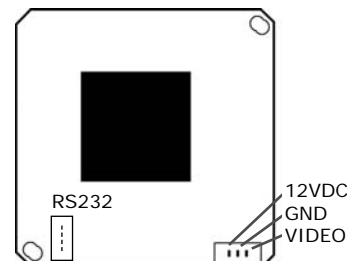
\* Lens options vary, but are pre-backfocused for normal operation. Varifocal lens options are indicated in a model number ending in:

- VA (4 to 9mm varifocals)
- VB (DC Auto Iris 4 to 9mm varifocals)
- WA (2.6 to 5.6mm varifocals)
- WB (DC Auto Iris 2.6 to 5.6mm varifocals)

Front



Back



## Power Board Controls

An optional 24VAC power board is available.

**Note:** line lock is optional on this camera (minimum quantity required).

## Technical Specifications

Electrical	20E407T3	21E407T3
	NTSC	PAL
CCD Sensor	1/3" Sony CCD imager	
Active Pixels (HxV)	768 x 492	768 x 585
Horizontal Resolution	550 TVL	
Sensitivity	30 IRE 0.3 lux (F1.2) (Color) 30 IRE 0.01 lux (F1.2) (B&W) IR filter is removed by Gen III lens mount mechanism at preset light level	
Signal To Noise Ratio	46 dB or more (AGC off)	
Gamma	0.45	
Synchronization	Internal	
Iris Control	DC iris + electronic Shutter	
Video Output	1V p-p composite 75 Ohms	
Power Supply	12VDC (8VDC~18VDC)	
Power Consumption	<1.75W / <3W filter actuation	

### Environmental

Ambient Operating Temp	-10° to + 55° Celsius
Ambient Operating Humidity	90% non-condensing
Storage Temp	-20° to + 70° Celsius
Storage Humidity	95% non-condensing

### Mechanical

Dimensions (LxWxD)	38mm x 38mm x 30mm (without lens)
Weight	33g (without lens)
Lens Options	20E407T3-WB 2.6~6mm lens DC iris, F1.4
	20E407T3-VB 4~9mm DC iris, F1.4
	20E409T3 <b>CS mount</b> Note: board lens connector adaptation needed to use 4-pole CS lens connectors

### Accessories

Optional	24VAC power board
----------	-------------------