



# INSTALLATION MANUAL

## **ST-BT1000IR2812-G Varifocal IR Bullet Camera**



## PACKAGE CONTENTS

This package contains:

One ST-BT1000IR2812-G varifocal infrared bullet color camera  
Mounting Hardware  
One installation manual

Note: The ST-BT1000IR2812-G requires a minimum 12VDC 200mA power supply such as the ST-PS12VDC1A or ST-PS12VDC2A.

## PRODUCT DESCRIPTION

The ST-BT1000IR2812-G is a varifocal infrared color bullet camera. The camera uses a 1/3" Color CCD sensor providing 1000TV lines of resolution. The ST-BT1000IR2812-G has a 2.8mm-12mm lens for optimal viewing. The 42 infrared LEDs support low light illumination down to 0 Lux.

## SPECIFICATIONS

### ST-BT1000IR2812-G

Specifications (Typical)

1. Image Sensor	1/3" CCD
2. Scanning System	NTSC
3. Horizontal Resolution	1000TV Lines
4. Synchronization	Internal, Negative Sync
5. Minimum Illumination	0 lux B&W
6. Auto Electronic Shutter	1/60s~1/100,000s
7. Lens	2.8-12mm Manual Zoom
8. S/N Ratio	>50dB
9. IR LED	φ 5x42PCS
10. IR Distance	130ft
11. IR Power On	CDS Auto Control
12. Video Output	1.0Vp-p @ 75Ω
13. Operating Temperature	14F° - 113°F
14. OSD	Yes
15. Power Requirements	200mA @ 12VDC
16. Dimensions	11"x3.75"x3"
17. Weight	2.2lbs

# INSTALLATION AND OPERATION



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions.



This symbol 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 electrical shock.

**CAUTION: To reduce the risk of electrical shock do not remove the cover or back of this unit. No user serviceable parts are inside.**

**CAUTION: To prevent electric shocks and risk of fire hazards, do not use other than specified power source.**

## 1. UNPACKING and HANDLING

Each unit is shipped assembled and factory tested.

Ensure that all accessories are removed from the container before discarding packing material

## 2. MECHANICAL INSPECTION

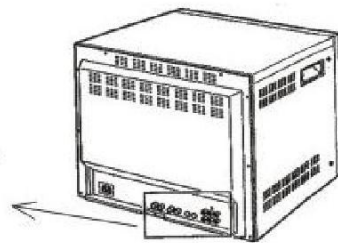
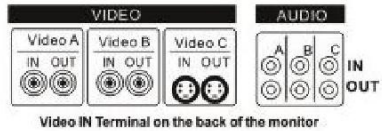
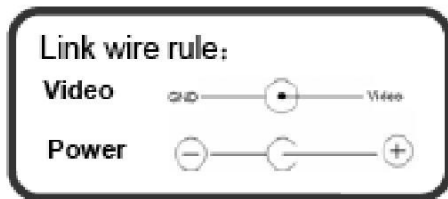
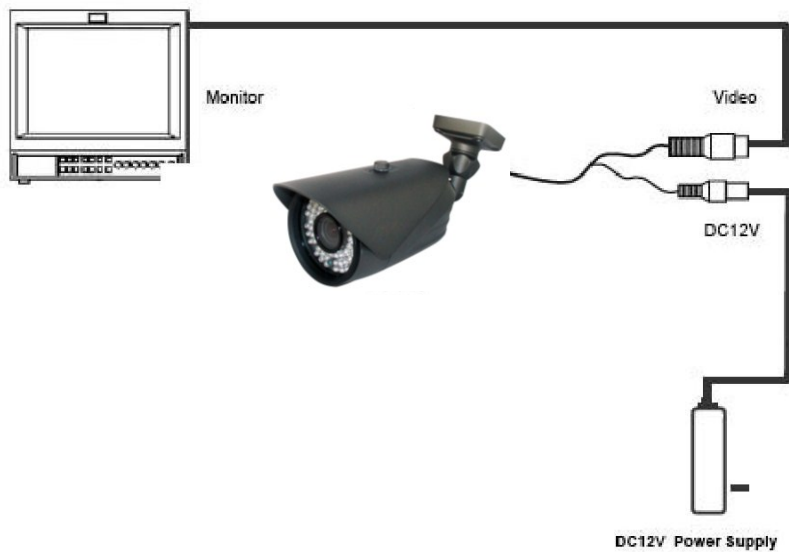
Inspect the front and rear of the equipment for shipping damage. Make sure the equipment is clean, and no connectors are broken, damaged, or loose. If equipment appears to be damaged or defective please contact your distributor or SecurityTronix at 1-610-429-1511 for assistance.

## 3. SPECIAL ATTENTION

- a. The installer must comply with electrical safety standards. There must be sufficient space between the camera's power supply and video line and any high voltage equipment and/or cables.
- b. To help ensure the camera's life and proper operation do not point the camera towards the sun or strong light.
- c. Do not install the camera in an environment where the temperature is above 113° F.
- d. Do not install the camera near a magnetic field or a high-power motor.
- e. Do not mount the camera near a radiator or heater.
- f. Only use a dry cloth to clean the camera. If there is dirt that is difficult to remove wipe gently with a mild detergent. Never use strong or abrasive detergents.
- g. This camera requires a 12VDC 200mA power supply. Using AC power or a power supply other than specified will damage the camera.
- h. Only qualified installers are allowed to install, test and disassemble the camera.
- i. The camera is a low voltage product. If installed outdoors proper safety and lightning grounding are required.

#### 4. WIRING CONNECTIONS

- a. Connect the power supply's DC plug to the camera's power port.
- b. Connect the camera to the monitor with a 75Ω coaxial video cable.
- c. Connect power supply's AC plug to a suitable AC power outlet.
- d. Adjust the lens direction according to the required surveillance area and environment.



5. OSD

OSD	LENS	ELC DC	SHUTTER	AUTO, 1/60, AFLK, 1/250, 1/350, 1/500, 1/1K, 1/2K, 1/4K, 1/5K, 1/10K, 1/100K	
			BRIGHT D	1-100	
			BRIGHT H	0-100	
			LSC	OFF, ON	
	WHITE	ATW			
		PUSH			
		LOCK	PRESS SET		
		MANUAL	R GAIN	0-255	
			B GAIN	0-255	
	ANTI CR				
	DAY/NTGHT	EXT AUTO	D-N DELAY	1-30	
			N-D DELAY	1-30	
			BURST	OFF, ON	
			SMART IR	OFF, ON	
		COLOR			
	BW	BURST	OFF, ON		
	BACKLIGHT	OFF			
		BLC	POSITION ADJUSTMENT		
		HLC	LEVEL	0-255	
			POSITION ADJUSTMENT		
	DWDR	LEVEL	0-8		
	FUNCTIONS	DNR	0-8		
		AGC GAIN	OFF, LOW, MID, HIGH		
		MIRROR	OFF, ON		
		MOTION	OFF		
			ON		SENSITIVITY 0-100
					POSITION ADJUSTMENT
					MASK ACTIVE
		PRIVACY	AREA	1-8	
			MODE	OFF, ON	
			COLOR	1--8	
			POSITION ADJUSTMENT		
		BPC	TH	0-255	
		DEFOG	OFF, ON		
	PICT ADJ.	SHARPNESS	0-100		
		BRIGHT	0-100		
		CONTRAST	0-100		
		COLOR	0-100		
		HUE	0-100		
		WB RED	0-100		
		WB BLUE	0-100		
		Y-GAMMA	0-100		
		C-GAMMA	0-100		
	CAMERA SET	CAM ID	0-255		
		CAM TITLE			
		PROTOCOL	PELCO-D, PELCO-C, PELCO-P		
		BAUD RATE			
		LANGUAGE	ENG, CHINESE		
	INITIAL				
	EXIT	SAVE			
NO SAVE					

## 6. TROUBLESHOOTING

- a. No picture after applying power – (i) check all plugs and cables are securely connected to the proper connectors; (ii) ensure your power supply is providing the correct voltage and current.
- b. The picture has ripples – (i) check to see if the power supply is experiencing AC ripple, if so a filter may be required; (ii) determine if the monitor is faulty; (iii) determine if other peripheral equipment is causing ripple and if so make the necessary adjustments.
- c. The picture background continuously changes color – a fluorescent lamp’s magnetic field may cause color roll, therefore, reduce the number of fluorescent lamps or increase the distance between the camera and the lamps.
- d. The picture appears smeared – (i) the power supply voltage level may be unstable, therefore, try another power supply; (ii) ensure the cables are correctly connected and/or the cables are of the correct impedance.
- e. Other interference may require a Securitytronix ground loop isolation filter.
- f. Additional troubleshooting assistance can be found on-line at [www.securitytronix.com](http://www.securitytronix.com) in addition to support from Securitytronix technicians at **1-800-688-9282**, option **3**, then option **2**.