

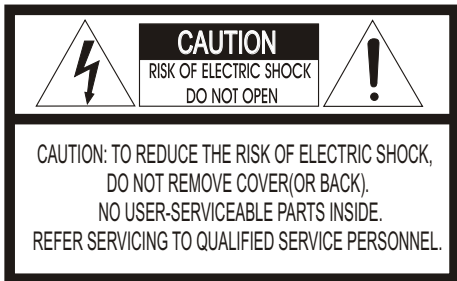
# Mini Strip Covert Camera

*Please read this manual thoroughly before use, and keep it handy for future reference.  
Design and specifications are subject to change without notice.*

## WARNINGS AND CAUTIONS:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OTHER OPENINGS ON THE EQUIPMENT.

### CAUTION:



## EXPLANATION OF GRAPHICAL SYMBOLS



The lightning flash with arrowhead symbol, within an equilateral triangle, 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 electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## PRECAUTIONS

### Installation -----

Do not install the unit in an extremely hot or humid place or in a place subject to excessive dust.

### Cleaning -----

Clean the unit with a slightly damp soft cloth.  
Use a mild household detergent. Never use strong solvents such as thinner or benzene as they might damage the finish of the unit.

Retain the original carton and packing materials for safe transport of this unit in the future.

## FCC COMPLIANCE STATEMENT

**FCC INFORMATION :** 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. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

**CAUTION :** CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.


## CE COMPLIANCE STATEMENT

### **WARNING**

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

# IMPORTANT SAFEGUARDS

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1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been moisture, does not operate normally, or has been dropped.
15. **CAUTION THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.**
16. Use satisfy clause 2.5 of IEC60950-1/UL60950-1 or Certified/Listed Class 2 power source only.

# INTRODUCTION

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## Features:

- High resolution and high performance 1/3" Color CCD
- Excellent picture quality
- 600 lines of resolution(Color)
- 0.1 lux(Color), 0.04ux(B/W) @ F1.2 50IRE Sensitivity
- Auto electronic shutter [1/60(1/50) ~ 1/100,000]
- Auto white balance
- AGC (Auto Gain Control)
- Use Certified / Listed Class 2 power source only
- 2D DNR(Digital Noise Reduction)
- Side Light Compensation
- 3.7mm Pin hole Lens
- BNC (Video connection) 2-Pin terminal block (Power)
- Operates in DC12~15V +/- 10%



**IMPORTANT :** The user of this camera is responsible for checking and complying with local, state, and federal laws and statutes concerning the recording and monitoring of audio signals.

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# Step 1

The gimbal mount surface mounted to ceiling.

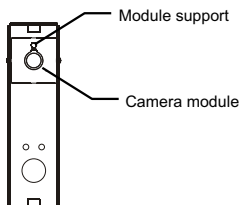


Default position of the CSVD37PB out of the box is for vertical orientation of the camera view.

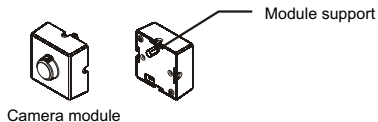
For horizontal orientation of camera the housing must be opened by removing the 4,M3 button head screws located on each side of the housing.

Camera module rotates 90 degrees in the desired direction.

\* The gimbal mount surface mounted vertically.



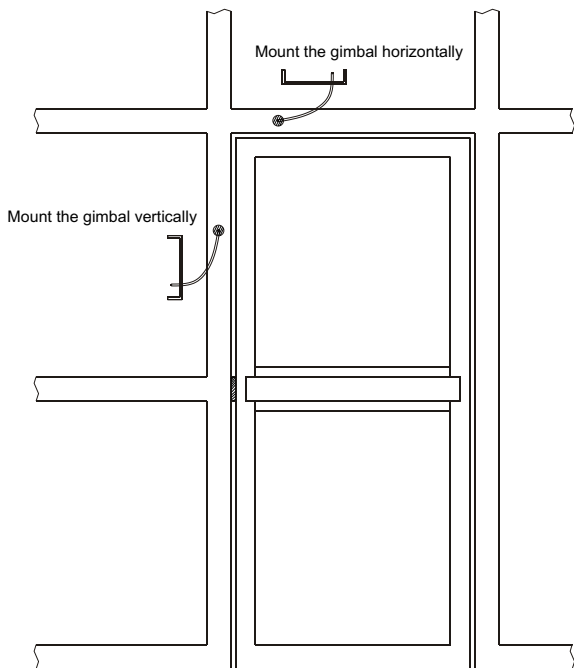
\* The gimbal mount surface mounted horizontally.



Open the box and unwrap the camera housing. Remove the top and bottom M6 Allen head screws and separate the gimbal mount from the housing.

Drill a feet-thru hole for the camera cable on the mounting surface.

## Step 2

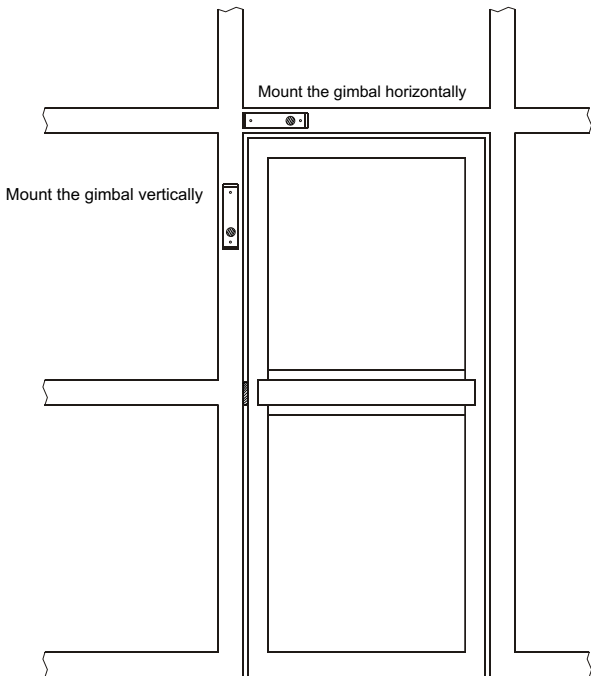


Feed wire through the 3/4" hole on the gimble mount.

For vertical mounting penetrate door frame at 63 inches from the finished floor.

The CSVD37PB gimbal can be mounted on the top door jam if required.

## Step 3



Center the gimbal mount to mounting surface and mark the mounting holes for the gimbal mount on the surface.

Secure the gimbal mount to the surface using installer supplied self tappers for aluminum frame structure.

If mounting on soft surface such as drywall be sure to use to use anchors.

For drop ceiling tiles it is recommended that toggle bolts be used as anchors.



## Step 4

### Completing the housing installation

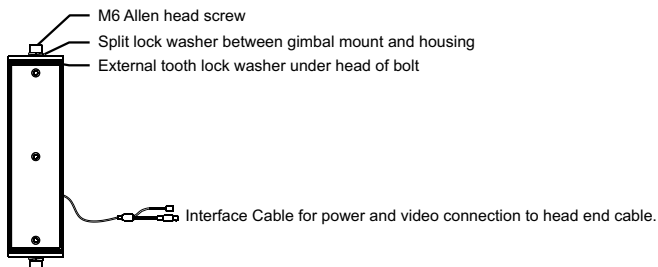
Pull cable from headend thru the mount gimbal mount. Connect BNC connectors and mark power connection to the camera.

Note: Polarities must be observed the camera is 12V DC and damage will result if power polarities are not observed. Power connector has a positive center pin.

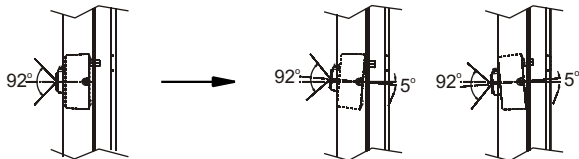
Mount the housing to the gimbal using the M6 Allen head screws at the top and bottom.

Place the external tooth washer between the housing and the gimbal mount then the split lock washer on the M6 screw and insert the screw into the housing through the gimbal mount and external tooth lock washer. Install the bolt and washers assembly at the bottom and top of the gimbal mount finger tight.

Adjust the camera housing right or left to acquire the proper field of view for the installation.



\* Camera lens position can be adjusted up and down 5 degrees



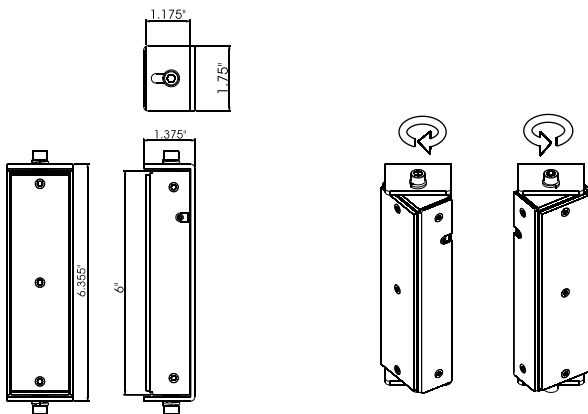
# DIMENSIONS

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MINI STRIP CAMERA

Unit: inch

CSV37PB



# SPECIFICATIONS

MODEL		NTSC	PAL
Power	Power source	DC12~15V +/-10%	
	Power consumption	130mA (1.5 Watts)	
General	Image sensor	1/3" Color CCD	
	Number of pixels	768(H) x 494(V)	752(H) x 582(V)
	Scanning system	2:1 interlace	
	Scanning frequency	15.734KHz(H) x 59.94Hz(V)	15.625KHz(H) x 50Hz(V)
	Sync. system	Internal	
	Electronic shutter	1/60 ~ 1/100,000 sec.	1/50 ~ 1/100,000 sec.
	Resolution	600 TV lines (Color)	
	Min. illumination	0.1 lux(COLOR), 0.04 lux(BW) @ F1.2, 50 IRE	
	Side Light Compensation	Auto	
	Digital Noise Reduction	2D DNR	
	Video output	1.0 Vp-p (75 ohm, composite)	
	S/N ratio	More than 50dB (AGC off)	
	Connector & etc.	AGC	ON
Day / Night		Auto	
White Balance		Auto(ATW)	
Power input		Terminal Block	
Video output		BNC Connector	
Lens mount		Fixed mount	
Lens		F3.7mm Pin hole Fixed	
Operating Temperature		-10°C ~ +50°C [14°F ~ 122°F]	
Operating humidity		0 ~ 96% (non-condensing)	
External Dimension		1.8"(W) x 6.4"(H) x 1.4"(D)	
Weight	set : 325g packing : 535g		

\* Use the power consumption 2W over.

## **Mini Strip Covert Camera**

PRINTED IN KOREA