

# 4PSWT

## 4-Position Sequencing, Alarming, Homing, & Bypassing Switcher



## Operation Manual

November 2006





**WARNING:** TO PREVENT FIRE  
OR ELECTRIC SHOCK,  
DO NOT EXPOSE THIS  
APPLIANCE TO RAIN  
OR MOISTURE



**WARNING!**

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a class A computing device pursuant to subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures

**CAUTION!**

RISK OF ELECTRICAL SHOCK  
DO NOT OPEN CAUTION!  
TO PREVENT ELECTRIC SHOCK  
DO NOT REMOVE COVER.  
NO USER SERVICEABLE COMPONENTS INSIDE.  
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

The lightning flash with the 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 electrical 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 appliance.

# INTRODUCTION

The 4PSWT is a 4 position sequencing, alarming, bypassing, and homing switcher. The front panel toggle switch allows for automatic sequencing, homing, and by-passing of the 4 video inputs. Sequencing is controlled by a front panel recessed dwell pot. This pot is recessed to eliminate accidental adjustment. The dwell adjustment varies from approximately .2 second to 60 seconds.

# OPERATION

The 4 toggle switches control homing, sequencing and by-passing. The LEDs above each toggle switch give a visual indication of the current camera. Homing any camera will stop the sequence mode and display the selected camera. If no homing switch is used, the switcher sequences through all cameras selected for sequencing in the loop. When a toggle switch is in the "BYPASS" position, the switcher will drop this camera from the sequence or bypass it. When the toggle switch is in the "SEQUENCE" position this camera is included in the sequence.

# DWELL

The dwell or time that each camera appears on-screen can be adjusted by the recessed front



panel control. This can be varied from approximately .2 seconds to 60 seconds. Use a small flat bladed screwdriver to adjust this control. Turning this pot to the right increases the dwell time.

# ALARMING

The alarming feature is tied to camera position 4 of the 4PSWT. The alarm input is located on the rear of the switcher. This compression type connector allows for the connection of an alarm switch or other alarming device. To open the cage clamp, insert a small, flat bladed screwdriver in the small slot below the clamp. When inserted, push the screwdriver slightly downwards to open the clamp. Now insert the wire and remove the screwdriver blade. When an alarm is connected, the switcher will always

“HOME” to camera four on an alarm. Homing to camera four will occur on an alarm regardless of the switch positions of the other cameras. If camera four is in the bypass mode, it will still home upon an alarm and return to the sequence or other selected modes upon the completion of the alarm. If cameras 1, 2, and 3 are sequencing, and camera 4 is in the bypass mode, upon an alarm the switcher will home to camera 4 for the alarm duration; then, when the alarm stops, it will continue the sequence from where it was when the alarm was triggered.

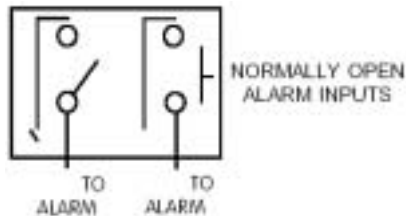
**NOTE: Upon powering up the 4PSWT, the switcher waits one dwell time to initialize. This may take from 1 second to 1 minute depending on the present dwell time setting.**

## POWER

The switcher is powered by the included wall transformer. The unit can be powered from 9 to 12VDC. The center post of the DC Coax is POSITIVE.

## CONNECTIONS

The VIDEO inputs are BNC type connectors. The inputs are 75 ohm terminated and require 1V P-P. The output is 1V P-P and will drive a 75 ohm load. Connect the video cameras to the switcher in the desired order. Connect Video out to your VCR or Monitor. Plug in the DC Coax connector. The switcher is now operational. Select the desired front panel controls and adjust the dwell.



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Internal Jumper Settings:  
JP2=open      JP3=shorted

# SPECIFICATIONS

Video Inputs (Parent & Inset).....1V P-P 75 ohm terminated  
Video Output .....1V P-P 75 ohms terminated or unterminated  
Power Supply .....9-12VDC @ 100 mA  
Video Inputs.....toggle switch selectable  
Toggle positions.....Bypass, Sequence & Home  
Dwell adjust..... Front panel recessed pot  
Dwell Time.....From approximately .2 second to 1 minute  
Alarm Input.....Screw terminal with quick disconnect  
NO (Normally Open), Hi-Z, Dry Contact  
Camera Position..... LED indicators (4) RED

## Connectors:

Video In/Out.....BNC  
Power Input.....DC Coax 2.1mm x 5.5mm  
Alarm Inputs .....Screw terminal with quick disconnect

## Mechanical:

Case ..... Beige Metal 5.13" W x 4.90" L x 1.38" H  
(130mm W x 125mm L x 35mm H)  
Weight.....0.60 kg.(1.32lbs.)  
Box Size.....8.0" W x 7.0" L x 2.5" H  
(240mm W x 178mm L x 64mm H)

# LIMITED WARRANTY

(Terms and Conditions)

For **2 Years** from the date of shipment, Seller warrants to Buyer that the Product is free from defects in material or workmanship **under normal use and service**. Equipment manufactured by other than Seller but furnished by Seller carries the same warranty to Buyer as Seller receives from the other manufacturer, notwithstanding any provision to the contrary. If Buyer has specified a particular manufacturer's product which is not the brand standardly supplied by Seller, Buyer shall look only to the other manufacturer's warranty and Seller shall not warrant such item.

**EXCLUSIONS.** Seller's warranty does not cover the following:

- (1) in-transit damage claims, improper handling by carrier or post office (Note: only the consignee of the shipment can file a claim with the common carrier)
- (2) damages caused by incorrect use, modification, carelessness, improper storage, hostile operating conditions, or unauthorized service, installation or repairs without proper training from the Seller
- (3) damages caused by fire, flood, lightning, collision, acts of God or other events beyond the control of Seller
- (4) products or parts thereof that have had serial numbers removed, altered or defaced
- (5) products returned without an RMA number and sales or delivery receipt showing the date of original purchase
- (7) use of components that do not meet Seller's specifications
- (9) external parts such as cabinets or keypads
- (10) periodic maintenance and adjustments resulting from normal use

**WARRANTIES EXCLUDED, SELLER EXPRESSLY DISCLAIMS AND EXCLUDES ANY EXPRESS OR IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS OR IS INCONSISTENT WITH THE WARRANTY HEREIN EXPRESSLY SET FORTH.**

**NON-WARRANTY CLAIMS.** In the event Buyer makes a warranty claim and Seller's warranty does not apply, Buyer shall reimburse Seller for all reasonable expenses incurred by Seller in diagnosing the installation/repair problem.

**BUYER'S EXCLUSIVE REMEDIES.** If the Product supplied shall fail to conform to the contract or any applicable warranty, Buyer shall immediately notify Seller of such condition and afford Seller a reasonable opportunity to inspect said Product. Seller shall, at its option, either repair or replace such nonconforming Product. Seller shall not be responsible for labor charges for removal or installation of such equipment or material or charges for transportation, handling and shipping except as provided in Seller's written service policy. No Product shall be returned without Seller's prior written consent.

**SELLER SHALL NOT BE LIABLE FOR ANY SPECIAL, DIRECT INCIDENTAL OR CONSEQUENTIAL DAMAGES OF A COMMERCIAL NATURE ARISING OUT THE USE OF OR INABILITY TO USE SELLER'S PRODUCT BY REASON OF THE FACT THAT SUCH PRODUCT DOES NOT CONFORM TO THE CONTRACT OR TO ANY EXPRESS OR IMPLIED WARRANTY. SELLER'S MAXIMUM LIABILITY SHALL BE LIMITED TO THE COST OF REPAIR AND/OR REPLACEMENT OF THE PRODUCT CLAIMED TO BE DEFECTIVE OR NONCONFORMING, SUBJECT TO SELLER'S RIGHT OF REMOVAL AND RETURN OF PRODUCT.**

All of the foregoing constitute Buyer's sole and exclusive remedy and Seller's sole and exclusive liability for supplying nonconforming or defective Product.

**RETURNS.** AVE products are fully inspected and carefully packed to ensure you are delivered a quality product in good condition. If you are not fully satisfied with our product, returns of standard stocking items with no restocking fee can be made within thirty (30) days of invoice to Buyer. All such returns must have prior consent of Seller by obtaining an RMA number and must include the sales or delivery receipt showing the date of original purchase and be in an unused condition contained in its original packaging. Any other returns must have prior written consent of Seller and are subject to a restocking fee of fifteen percent (15%) and freight charges.

**RMA NUMBER.** The RMA (Return Material Authorization) number must be obtained by contacting Seller prior to the shipment of the the product for return. The RMA number is valid only for 15 days from the date of issue. The RMA number must be clearly displayed on all shipping labels.



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