



# Instruction Manual

## CSP-20



Thank you for purchasing the CSP-20. Please read this manual before using the CSP-20. When using the CSP-20, always follow the instructions contained in this manual, and pay close attention to the safety information.

# WARNING!

**Do not expose this product to water, rain or moisture.**

Doing this can result in electric shock or fire.

**Never take this product apart or try to modify it.**

Doing so is very dangerous and could result in electric shock.

**Do not store this product near open flame.**

Do not use this product near open flame or place lit or flammable items, such as candles, incense, ect., on it.

**Do not place any containers filled with water or other liquids near this product.**

Doing so could result in fire or electric shock if the liquid spills and enters the product or gets it wet. If a liquid spills near this product, unplug the product immediately.

**Do not remove or insert the power supply with wet hands.**

Doing so could result in electric shock.

**Do not use the power supply in any of the following ways.**

Doing so could result in fire or electric shock.

Modifying or heating the power cable

Damaging the power cable

Bending or tugging on the power cable unnecessarily

Knotting or kinking the power cable

Setting heavy objects on the power cable

**When moving this product , first unplug the power supply from the outlet. Do not tug the cable or move this product with the power supply plugged into the outlet.**

Doing so could damage the cable, possibly resulting in fire or electric shock.

**To reduce the risk of electric shock, do not remove the cover.**

No parts inside the product can be serviced by the user. If your product needs service contact

**Compu-Video Systems Inc. at (845) 737-7009.**

**Usage Environment**

Avoid using or storing this product in areas such as those listed below. Doing so could damage the product or cause it to malfunction.

Areas exposed to heat or flames

Humid areas and areas where water is used

**Handling this product**

Do not drop or apply a strong force to this product or any included or connected parts.

Do not spill liquids around or inside this product or drop flammable objects around or inside it.

**Power Supply**

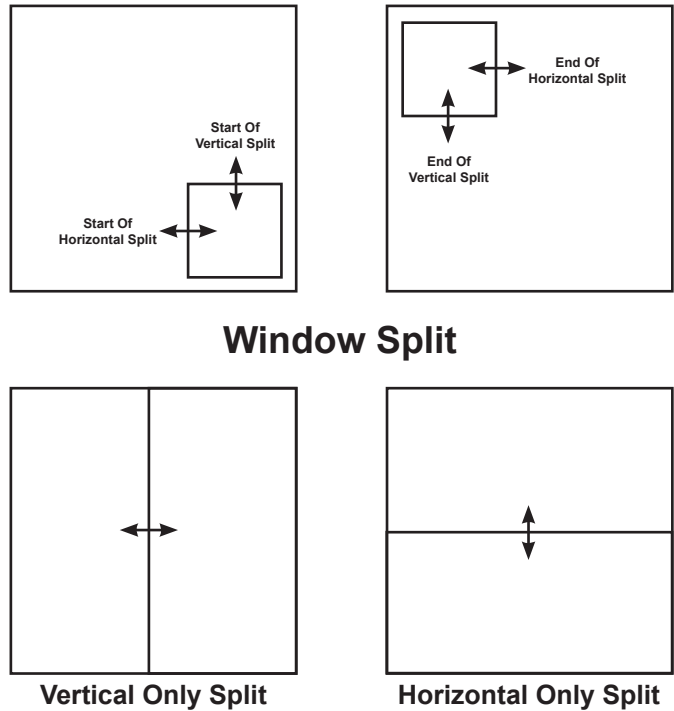
Only use the supplied power supply which is designed specifically for this product.

Do not allow the plug to come into contact with metal or water.

**This Product is not designed for contact medical use**

Do not use this product for medical applications that could result in patient contact.

The CSP-20 is a 2 camera video screen splitter that requires one camera to be genlockable. Because of the genlock of both the Horizontal and the color signals, the CSP-20 can be used for high resolution color cameras with minimum signal degrading. The size, type and position of the split (Fig. 1) are variable, creating an unlimited number of split variations and split size

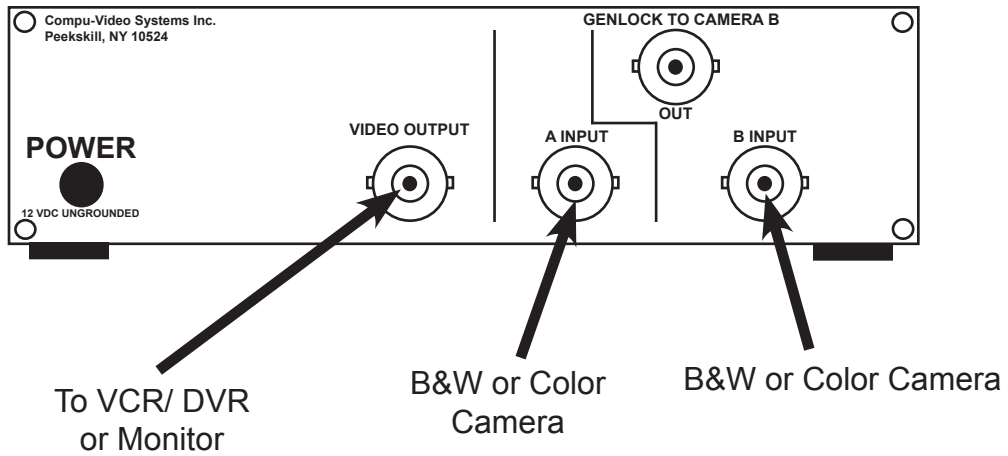


**Camera Requirements:**

The CSP-20 will work with 2 Color or B&W cameras provided that one of the cameras, B input, is genlockable. For color cameras there must be both "H-Phase Adj. and Chroma Phase adj. controls present on the "B" camera to be able to match the colors of both cameras. It is recommended that both cameras be of the same model and manufacturer so that the pictures match over varying lighting conditions.

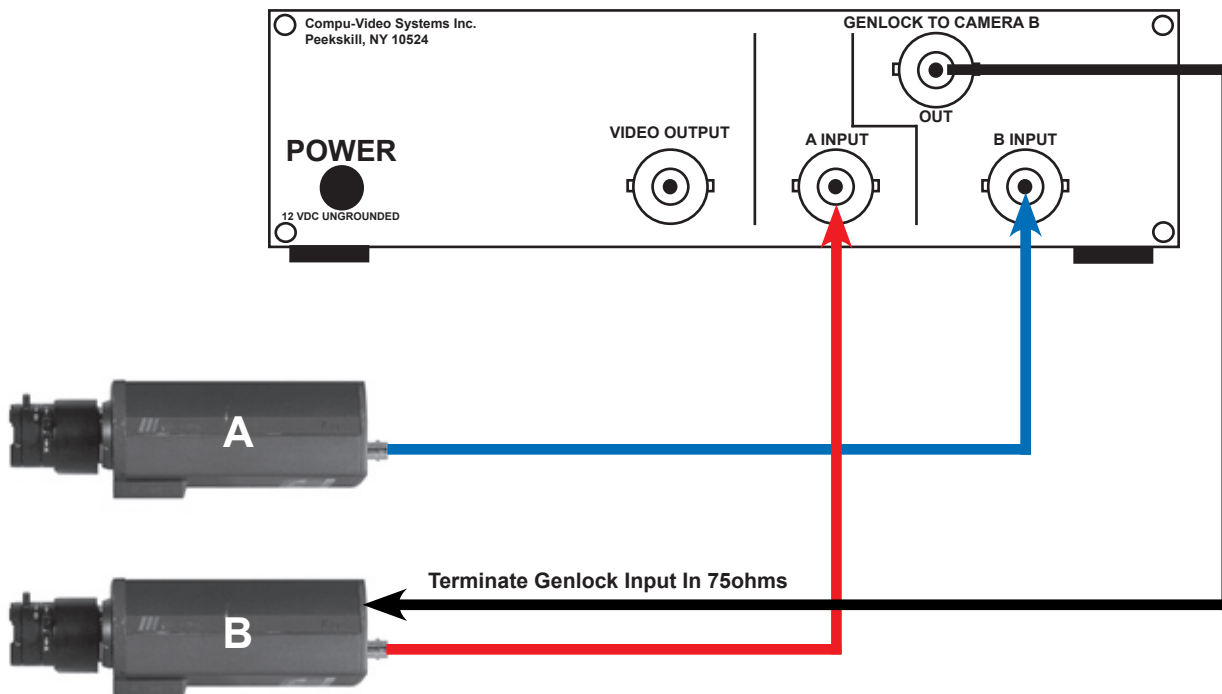
**Set up**

To set up the screen splitter we recommend you use the following check list to make the process simple.



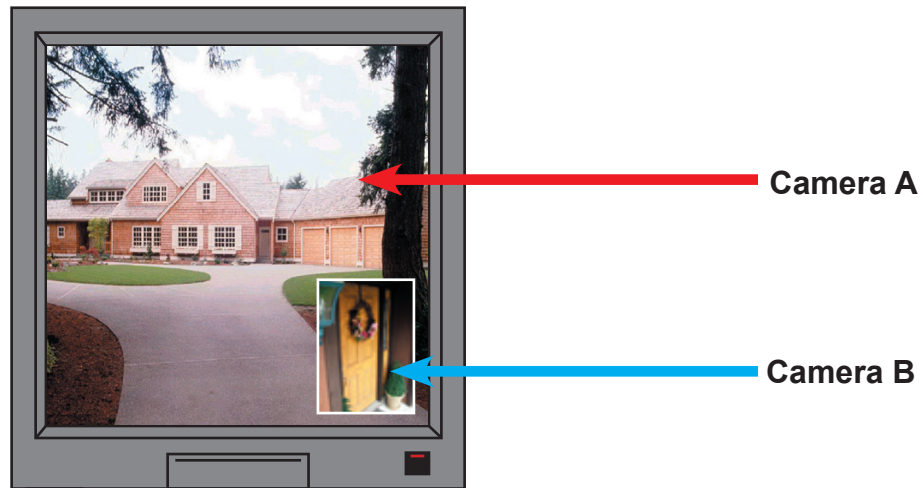
**SETUP:**

**System connections:**



**NOTE: IF CAMERAS ARE LOCKED TOGETHER FROM A DIFFERENT SOURCE, THE “GEN-LOCK TO CAMERA B” CONNECTOR MUST BE TERMINATED.**

·Install the cameras to cover the areas to be viewed. Take care with cameras 1 and 2 that the areas of picture that you want to see of each camera are offset to compensate for the split. A simple way to guarantee success of setting up the cameras is to take a magic marker and draw the desired split setup on the test monitor. Offset each camera to get the desired picture in the area provided for that camera.



·Locate yourself at the screen splitter. With the front panel switch, verify that each camera shows individually on the screen.

·Decide on the type of split that you will use. Example: Vertical split, Horizontal split, Window.

·Decide where the split will be, and in the case of the window, what size it will be.

·Once the split has been decided on, using a small straight edge screw driver, adjust the window or split size using the front panel controls and the following steps:

·Set the front panel switch to the center Split position.

·It is recommended that you center the controls and vary each one while observing the picture. This will give you a feel for the way each control affects the picture.

·Begin by adjusting the start of the split with the Vertical split start control. Position the start of the split as desired.

·Next set the end of the vertical split to its desired location using the End Vertical Split Control.



## **NOTE:**

On the Horiz Split end control, if you are setting the window/split that it goes to the far right side of the screen, Vary this control to the minimum split and slowly increase it so that the split goes to the right. Once you go past the end of the screen you can continue. You will see no increase in split size but you will see the picture jump to the side at a point. This indicates that you have gone too far and need to adjust the control back to just before the picture jumps.

·Adjust the Horizontal Split Start to position the left side of the split

·Adjust the End Horiz Control to end the Horiz split. You now have a window that should be positioned in camera 1.

H phase adjust on the genlocked camera (B): Split on, looking at monitor at output of screen splitter. If you are using a split that either begins or ends at the edge of the screen you may need to adjust the "H" or horiz phase of the genlocked camera. If there is a black bar on either the left or the right side of the end of the picture you have a horiz timing offset. Adj. the H phase on the genlocked camera to eliminate this black edge. If you are using a window split in the center of the screen you will not have this problem.

Color Match Style 1) Go to the B camera and adjust the H phase control to center. Then place a red colored item so that both cameras can see it. With the screen split, adjust the SC phase so that the reds match. Check the camera manual for the control locations.

Color match Style 2) If you are not able to point the cameras at the same item either use identical colored items such as red or yellow construction paper or by just using general picture content, adjust the chroma phase of the B camera so that the colors appear to be correct with the picture split.

Thank You for purchasing a Compu-Video Systems product.

# Limited Warranty:

Compu-Video Systems warrants this product and all accessories provided with it to be free of defects in material and workmanship for a period of 5 years after the original date of purchase. This warranty does not cover damage to the product resulting from accident, misuse or modification.

## How The Warranty Works

If this product, or any of the accessories supplied with it, become defective within the warranty period, Compu-Video Systems Inc. will at its discretion repair, or replace the product with an equivalent unit of equal or higher value without charge. Overland return transportation from Compu-Video Systems Inc. to the user is free of charge.

## How To Get Service

Please contact CVS by phone for return authorization number and then return the defective unit, transportation prepaid and a dated proof of purchase to:

**Compu-Video Systems Inc.  
37 Arden Drive  
Garrison, NY 10524**

The customer is responsible for all costs incurred from shipping the product back to Compu-Video Systems.

## Obtaining Technical Help/Service

Web Site: [www.compuvideosystems.com](http://www.compuvideosystems.com)  
Phone: (845) 737-7009  
Fax: (845) 737-0426

**In no event shall Compu-Video Systems Inc.  
be liable for Consequential Damages.**

Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**Have A Video Picture Problem?  
Give Us A Call At (845) 737-7009 For Free Tech Support.  
We May Have The Answer You Are Looking For.**

