

# INSTALLATION INSTRUCTIONS

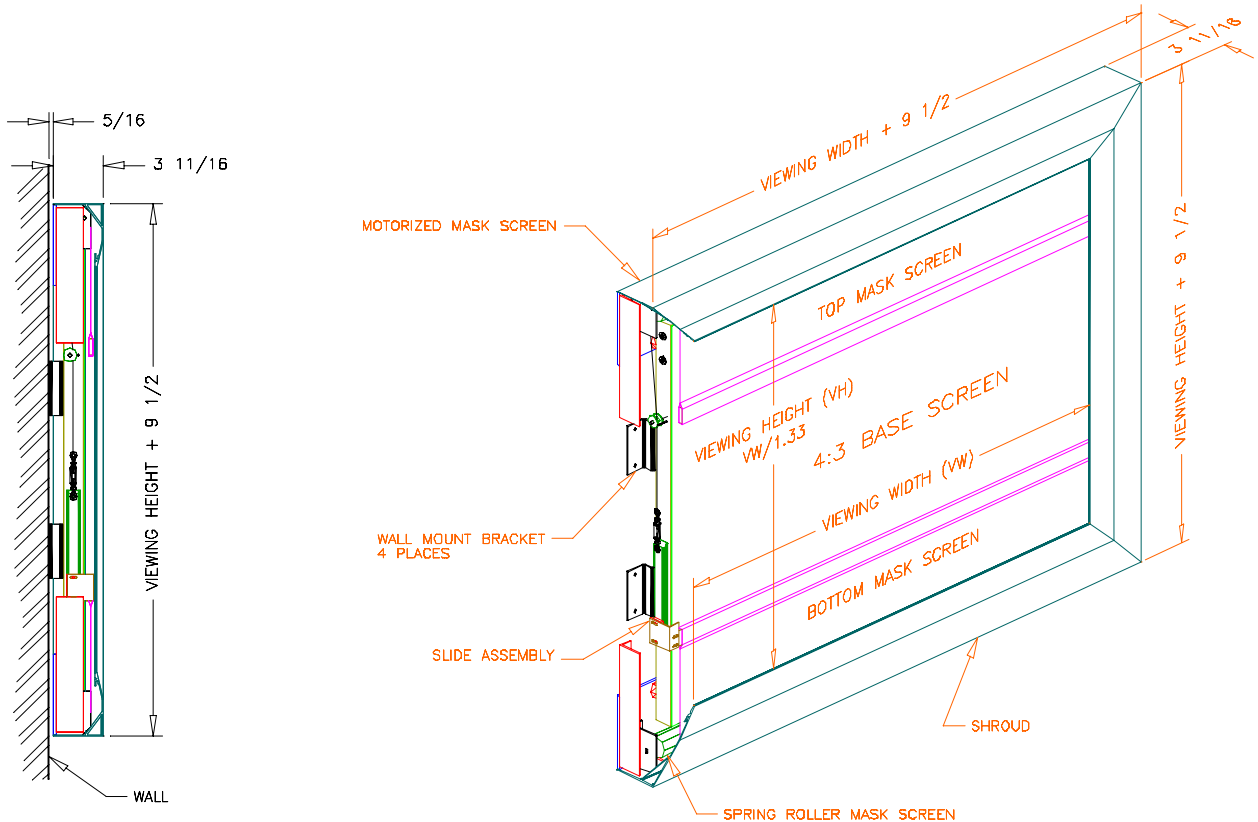
## HOME THEATER SERIES

### VISION XFH

#### TRI-ASPECT MASKING FRAME SCREEN

The Vision XFH screen is shipped fully assembled and ready for installation. Very little mounting effort and some simple electrical connections are required for a complete installation.

Study Figures 1, 2 and 3 carefully and determine the screen mounting location. A table showing the weights for various screen sizes is provided in this manual.



**Figure 1**  
*Side View*

**Figure 2**  
*Left Shroud removed for details*

It is recommended that the screen be mounted to a rigid supporting structure capable of handling the full weight of the screen. Special considerations must be given to installation onto drywall location.

***NOTE: The screen must be installed with the motorized mask screen on top and the spring roller mask screen at the bottom as shown in Figure 2. THE SCREEN WILL NOT WORK IF THE ORIENTATION IS REVERSED.***



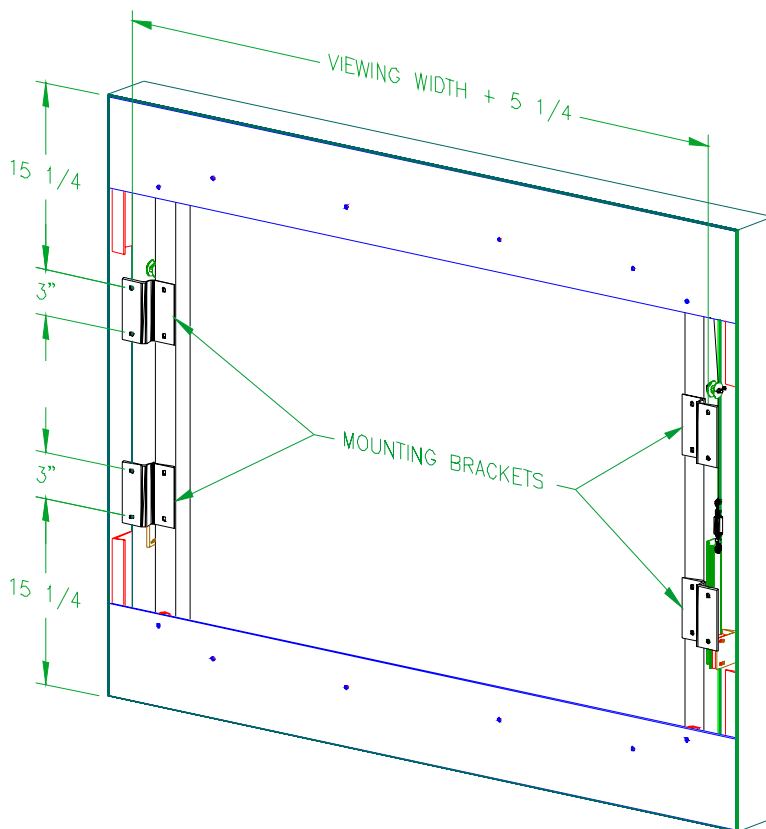
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Remove the left and right Shroud to reveal the four mounting brackets. Place the shrouds on a clean and flat surface to protect the velvet.

Install the screen using mounting screws supplied (for wall studs installation) or other suitable fasteners applicable to this installation.

It is important that the screen must be level horizontally and plumb vertically to ensure optimum operation.



**Figure 3**  
*Rear View*

Make electrical connections according to the Wiring Diagram. All electrical connections must conform to local and national electrical codes and regulations. Power supply wiring for the screen motor must be of minimum 18-AWG wires.

Install the Low Voltage Wall Switch using the modular cord supplied.

*Note: The 25 feet modular cord has type RJ11 (standard plug) on one end, and type RJ9 (handset plug) on other end. Plug the RJ11 to the T-coupler and the RJ9 to the switch.*

Make wiring connections for automation system (optional) as required (see AUTOMATION SYSTEM HOOKUP).

Operate the screen and check the aspect ratios; reprogram the aspect ratios as required (see PROGRAMMING THE ASPECT RATIOS).

Replace the shrouds onto the screen unit.

*Note: The shrouds are marked on the inside for proper matching.*

## PROGRAMMING THE ASPECT RATIOS

The base screen of the Vision XFH is a 4:3 (1.33:1 standard TV) aspect ratio when the top and bottom mask screens are not shown. The lower limit of the mask screens has been programmed to produce a 2.35:1 (Cinemascope picture) aspect ratio. The intermediate stop of the mask screens has been programmed to produce a 16:9 (1.78:1 HDTV) aspect ratio. Of course, the centerlines of the three aspect ratios are maintained so the image is always on the screen's center.

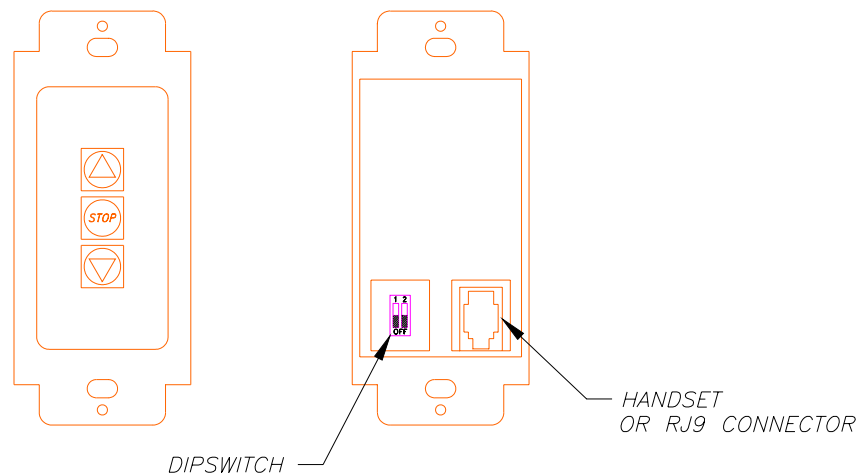
The top mask screen is driven by a motor. The bottom mask screen is a follower and utilizes a spring roller for screen take-up. By means of cable arrangements, the bottom mask screen moves in the opposite direction to the top mask screen and in equal travel. The top mask screen is of importance when programming the aspect ratios.

### Important notes:

- 1. When programming the upper and/or lower limits of the mask screens; the intermediate position is lost and must be reprogrammed.*
- 2. Once the upper and lower limits of the mask screens have been defined; the intermediate position can be changed without affecting the upper and lower limit positions.*

## PROGRAMMING THE UPPER AND LOWER LIMITS

The two-position dipswitch is on the backside of the Low Voltage Wall Switch. Set the dipswitch to 1 ON and 2 OFF to program the lower limit. If pressing the DOWN button and the top mask screen moves in the opposite direction, release the button and press the STOP button momentary. This will reverse the travel direction of the DOWN button. Press the DOWN button to move the top mask screen down to the desired location then release the button. Return both dipswitches to OFF positions to record the lower limit.



**Figure 4**  
*Low Voltage Wall Switch*

The upper limit of the top mask screen should not be changed unless work has been performed to the motorized screen roller, such as: replacing the mask screen fabric or removing/replacing the motor. These situations require the screen roller to be removed and thus the upper limit position no longer holds true. The upper limit position must be reprogrammed under these conditions.

The upper limit of the top mask screen is defined when the mask is at least 1/4 inch behind the top shroud. Set the dipswitch to 1 OFF and 2 ON. Press the UP button to move the top mask screen to desired location and release the button. Return both dipswitches to OFF positions to record the upper limit.

### PROGRAMMING THE INTERMEDIATE POSITION

Under normal operation, both dipswitches are in the OFF position. Press and release the DOWN button to move the top mask screen to its lower limit position thus displaying the second aspect ratio of the screen.

Press the STOP button while the top mask screen is in travel to stop the screen.

Once the top mask screen is stopped at the desired position; press and hold the STOP button for at least five seconds to record the intermediate position (the third aspect ratio).

Check the screen's aspect ratios by pressing the UP, DOWN and STOP buttons. Reprogram as necessary.

### AUTOMATION SYSTEM HOOKUP

The Vision XFH screen can be controlled by any home automation system that supports I/O control capability. Automation systems such as those made by Crestron, Panja, Lexicon etc. have the requirements for controlling the screen as mentioned. Contact the dealers for further details.

The I/O control requires three Normally Open (N.O.) relay contacts for controlling the screen. As shown in Figure 5, the 4-conductor modular cable for the automation system is not supplied. The cable is available at Radio Shack or telephone supplies stores.

**The colors of the wires in a 4-conductor cable may not be the same for different manufacturers. Regardless of the colors of the wires, be sure the pins and their respective functions are maintained.**

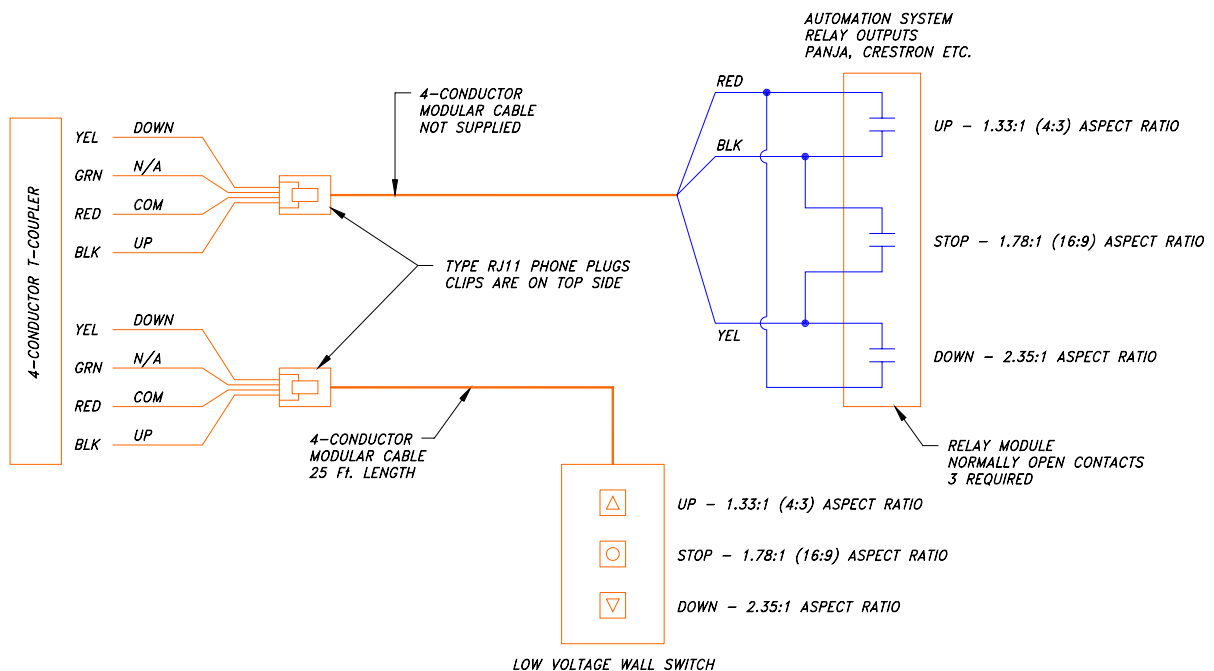


Figure 5

Refer to Figure 5, connect the wires to three N.O. relay contacts. The operations for displaying the three screen ratios are as follows:

- Close the UP relay contact for half a second and release the contact to activate the screen ratio assigned to that contact.
- Close the DOWN relay contact for half a second and release the contact to activate the screen ratio assigned to that contact.
- Close the STOP and either the UP or DOWN relay contacts for half a second and release both contacts to activate the screen ratio assigned to that contact.

### **ACCESSORIES INCLUDED**

- 1      4-CONDUCTOR MODULAR CABLE – 25 Feet**
- 1      LOW VOLTAGE WALL SWITCH**
- 1      4-CONDUCTOR T-COUPLER**
- 8      1/4 DIA X 2” LG. LAG SCREW**