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INSTALLATION AND OPERATING INSTRUCTIONS FOR

# Single Motor Low Voltage Control System

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## Important Safety Instructions

When using your video equipment, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions before using.
2. Position the cord so that it will not be tripped over, pulled, or contact hot surfaces.
3. If an extension cord is necessary, a cord with a current rating at least equal to that of the appliance should be used. Cords rated for less amperage than the appliance may overheat.
4. To reduce the risk of electric shock, do not disassemble this appliance. Contact an authorized service dealer when repair work is required. Incorrect reassembly can cause electric shock when the appliance is used subsequently.
5. The use of an accessory attachment not recommended by the manufacturer may cause a risk of fire, electric shock, or injury to persons.

### Save These Instructions

## Pre-Installation

The low voltage control (LVC) housing is divided into 3 compartments. the compartment labeled "Low Voltage Connections" is where you will connect the wall switch or a central control panel. The compartment labeled "AC Power Connections" is where the main power and motor wire connections are made. The center compartment only requires access when connecting an infrared or radio frequency remote receiver.

## Low Voltage Connections

**⚠ WARNING: To prevent electrical shock or damage to the LVC, do not apply power to the LVC until all connections are complete. Make sure power is turned off on all wires before making connections.**

**⚠ AVERTISSEMENT: pour éviter tout choc électrique ou d'endommager le tableau de contrôle basse tension, n'alimentez ce dernier qu'une fois tous les branchements effectués. Vérifiez qu'aucun câble n'est alimenté avant d'effectuer les branchements.**

### Wall Switch

**⚠ WARNING: This unit must be used with the enclosed switch. DO NOT USE the rocker switch included with screen.**

**⚠ AVERTISSEMENT: Cette unité doit être utilisée avec l'interrupteur fourni. NE UTILISEZ PAS l'interrupteur à bascule fourni avec l'écran.**

1. Install wall switch where desired.
2. Use 3-conductor 20-24 gauge wire to extend the switch wire to the required length.
3. Connect the wire from the switch to the wire labeled "wall switch". Refer to diagram 1.

**⚠ CAUTION: Never apply voltage to the wall switch lead or the LVC will be damaged.**

**⚠ ATTENTION: N'appliquez jamais une tension aux fils du commutateur mural sinon le tableau de contrôle basse tension sera endommagé.**

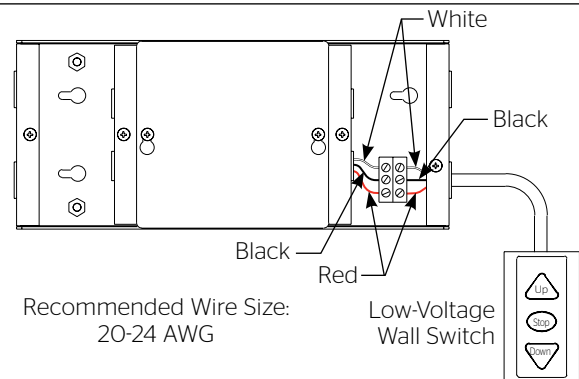


Figure 1

### Control Panel

A control panel may be connected to the LVC by using the wall switch wire lead. The control panel must provide a momentary, dry contact closure of at least 1/2 second.

1. Use 3-conductor 20-24 gauge wire to connect the control panel to the wall switch lead.
2. A momentary closure across the white and red wires will be an "up" command.
3. A momentary closure across the white and black wires will be a "down" command.
4. A momentary closure across the white, red and black wires will be a "stop" command.

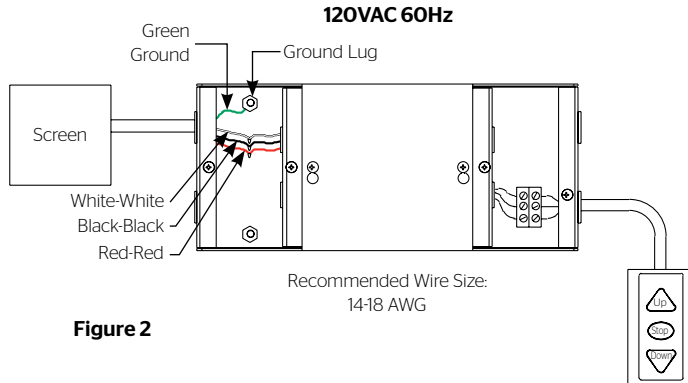
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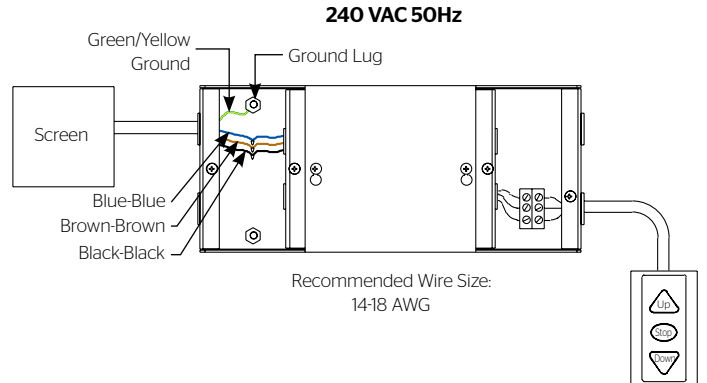
# AC Power Connections

## Screen Motor

1. Connect the motor wires in the screen junction box to the LVC wires labeled "motor wires". Refer to diagram 2.
2. Use 14-18 gauge wire to extend the motor wire to the required length.

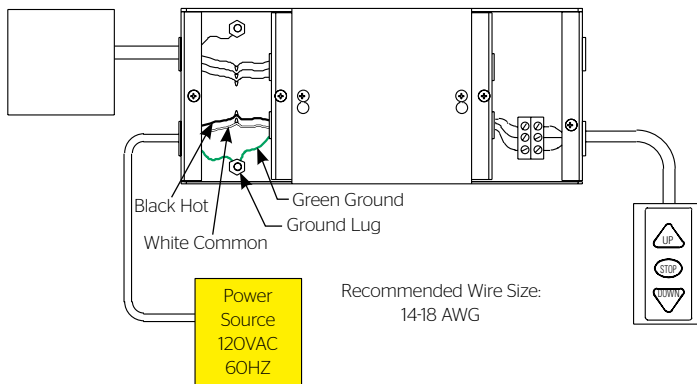


**Figure 2**

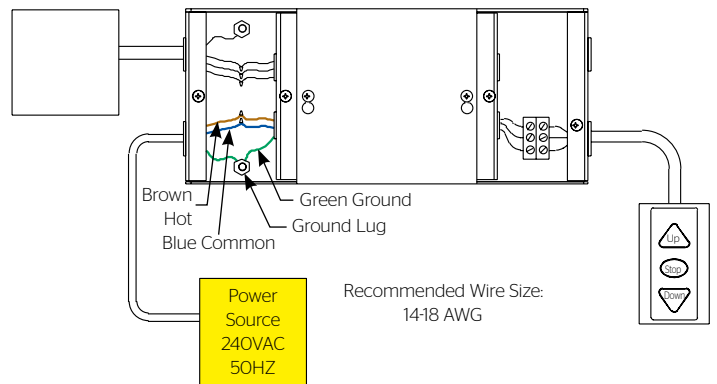


## AC Power Source

1. Connect power wires to the LVC wires labeled "AC power input". Refer to diagram 3.
2. Connect the building ground wire to the ground lug on the metal housing.



**Figure 3**



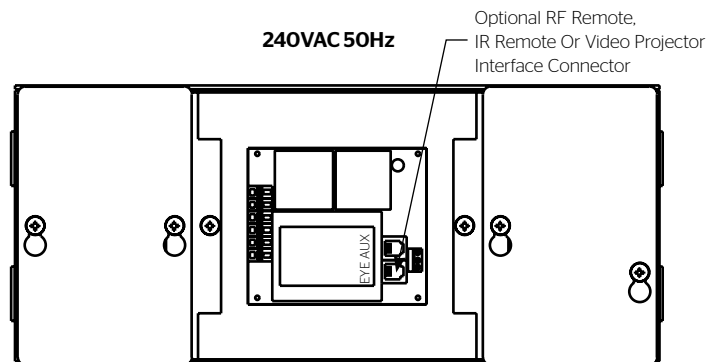
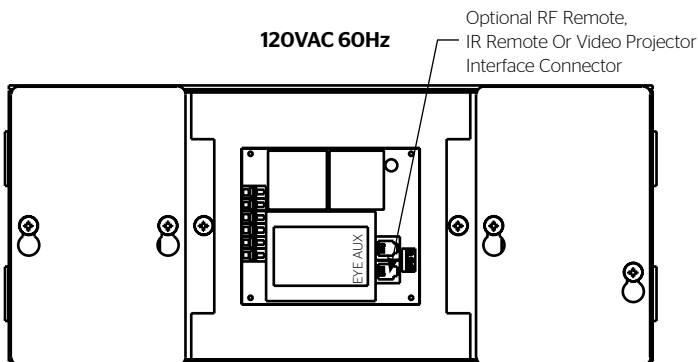
## Optional Wireless Remote Connections:

### Radio Frequency Remote

1. Remove the cover plate labeled "Low voltage connections" and the center cover plate.
2. Route the receiver wire through the round plastic bushing and plug it into the onboard socket marked "EYE". Refer to diagram 4.

### Infrared Remote

1. Remove the cover plate labeled "Low voltage connections" and the center cover plate.
2. Route the receiver wire through the round plastic bushing and plug it into the onboard socket marked "EYE". Refer to diagram 4.



**Figure 4**

## Troubleshooting

Visit [www.da-lite.com](http://www.da-lite.com) to find installation and troubleshooting tutorials. You will also find a link to Live Chat for interactive support and you can contact us by email at [info@da-lite.com](mailto:info@da-lite.com) or by phone at (800) 622-3737 or (574) 267-8101 with any troubleshooting questions.

Symptom	Cause	Solution
Screen will not operate.	No power to LVC unit.	Turn on power to LVC input. Measure voltage across black and white input leads.
	Incorrect wiring.	Recheck all wiring for proper installation. Check all wire nut connections.
	Low voltage circuit damaged due to voltage input.	The wall switch terminal is for dry contact (no voltage) input only. Applying voltage to this terminal will damage the LVC.
	LVC controller lock-up.	Locate breaker for screen and turn off power. Wait one minute and re-activate circuit.
Radio frequency remote does not work.	Weak battery in transmitter.	Replace battery.
Infrared remote does not work.	Weak battery in transmitter.	Replace battery.
	Receiver incorrectly positioned.	Receiver must be unobstructed and located in direct line with the transmitter..
	Fluorescent light interference.	Remote receiver should not be placed near fluorescent lights.
Screen runs in the wrong direction.	Red and black wires are reversed on motor or wall switch terminals.	Turn off power to LVC. Reverse the red and black wires on either the motor terminals or the wall switch terminals. Changing either one will change the direction of motor travel. Do not change both.

**NOTE:** The LVC will shut off power to the screen motor 5 minutes after the motor stops turning. Push the up or down button to reactivate the LVC relays.



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