
INSTALLATION AND OPERATING INSTRUCTIONS FOR
Serial Control Board SCB-100



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

Installation

This manual covers installation for both the external SCB-100 and the built-in SCB-100. If you have the external SCB-100, refer to Figures 1, 2 and 3 for wire connections. If your screen has the SCB-100 built into the screen case, refer to Figure 4 for wire connections.

The main power wires (100-240VAC) should always be separated from the low voltage wires. To do this, route the power and motor wires into the housing using the knockouts on one end of the housing. The wall switch and RS-232 wires should be routed through the knockouts on the opposite end of the housing.

Do not connect power to the SCB-100 until all other connections are complete.

Installation

WALL SWITCH

The SCB-100 has two manual switch ports. These ports are for dry contact closure only. Port 1 controls motor 1. Port 2 controls motor 2.

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 wall switch to the SCB-100 as shown in Figure 1.

⚠ CAUTION: Never apply voltage to the wall switch terminal or the unit will be damaged.

⚠ ATTENTION: n'alimentez jamais le commutateur mural ou l'unité sera endommagée.

RS-232

The SCB-100 has two RS-232 ports. Port 1 and Port 2 can control either motor 1 or 2.

Both ports are marked with RX, G, TX.

RX-data being received into the SCB-100.

TX-data going out of the SCB-100.

G-ground.

12VDC OUT

The SCB-100 supplies voltage to the optional NET-100 network adaptor. The center terminal is not used.

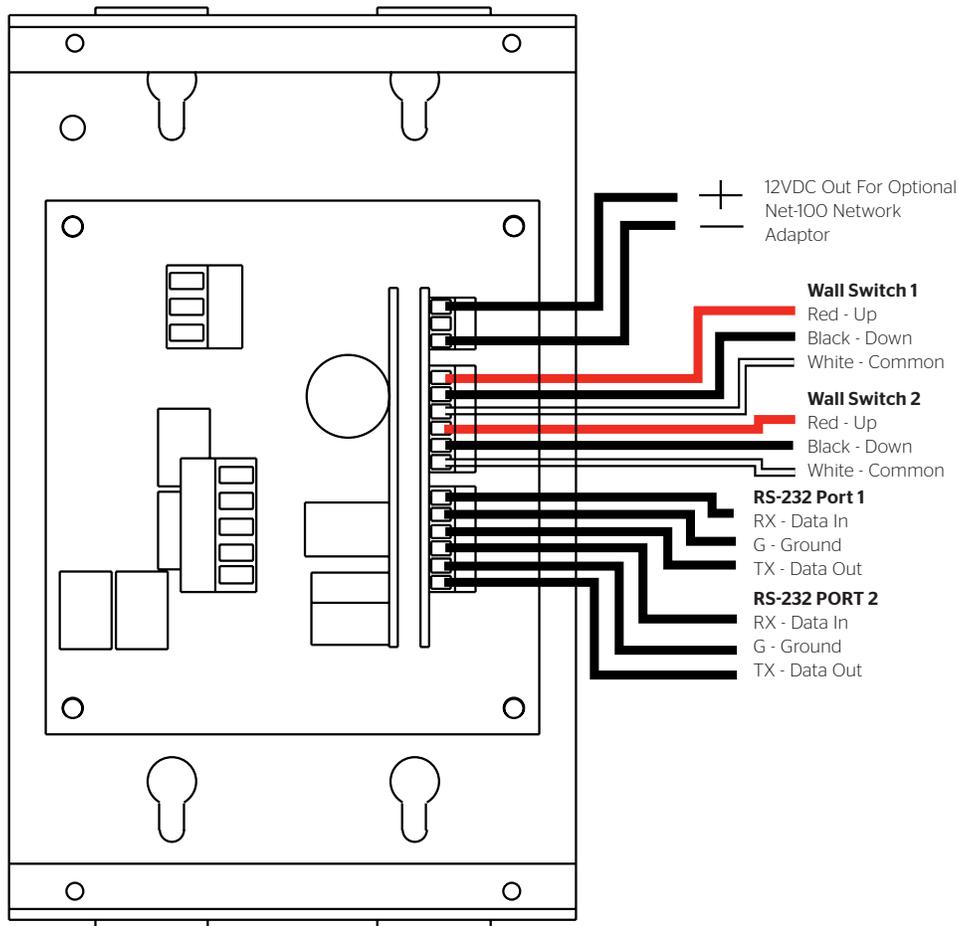


Figure 1

Installation

SCREEN MOTOR

The SCB-100 has two motor outputs. This allows control of two screens or a screen and a projector lift independently.

1. Connect the motor wires in the screen junction box to the SCB-100 as shown in Figure 2.
2. Use 14-18 gauge wire to extend the motor wire to the required length.

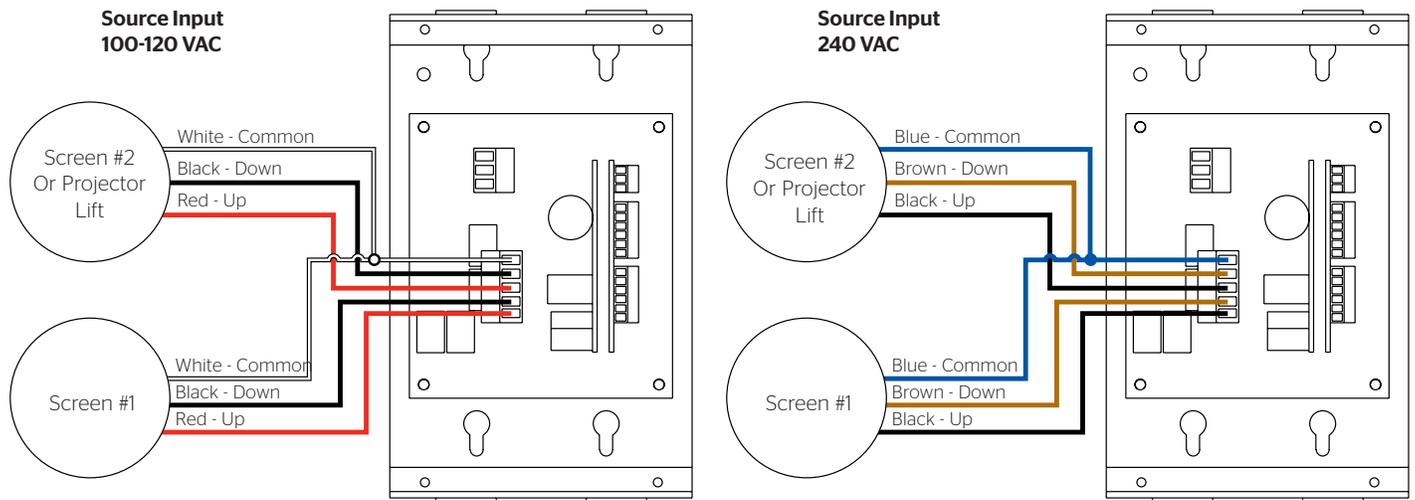


Figure 2

Installation

POWER SOURCE

1. Connect power wires to the SCB-100 as shown in Figure 3.
2. Connect the building ground wire to the ground lug on the metal housing.

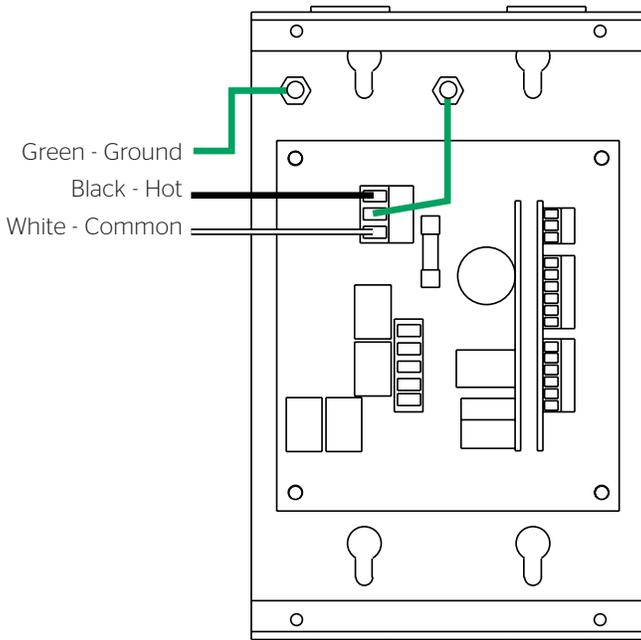


Figure 3 - Source Input 100-120 VAC

RS-232 COMMUNICATIONS

The command protocols are as follows.

Screen 1 up: @1U

Screen 1 stop: @1S

Screen 1 down: @1D

Screen 2 up: @2U

Screen 2 stop: @2S

Screen 2 down: @2D

Poll: @P

Response to a poll is @1x2x where x is U for up, S for stop, D for down.

Communications is 9600 baud, 8 data bits, No parity, 1 stop bit.

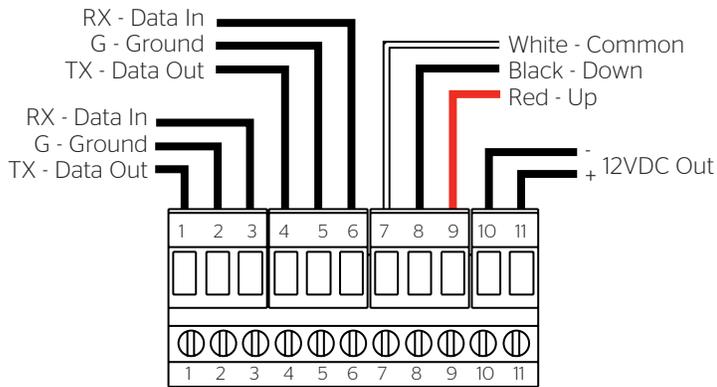
No "Return" or "Enter" is required at end of string. The command will be executed as soon as the U, D, or S is received.

There is a 50ms time out if a valid character is received but the string is not finished. All command characters must be sent in one packet.

Installation

BUILT-IN SCB-100 CONTROL

Locate the 11-pin connector in the junction box of the screen.
Refer to Figure 4 for wire connections.



Terminals 1-3 = RS232 Port 2
Terminals 4-6 = RS232 Port 1
Terminals 7-9 = Wall Switch
Terminals 10-11 = Net-100 Controller

Figure 4

RS-232 PORTS

The SCB-100 has two RS-232 ports. Both ports have three wire connections.

- RX-Data being received into the SCB-100
- TX-Data going out of the SCB-100
- G-Ground

WALL SWITCH

The wall switch terminal is a dry contact closure. Do not apply voltage to this terminal or the control will be damaged.

1. Install the wall switch where desired.
2. Use 3-conductor 20-24 gauge wire to extend the switch wire to the required length.

12VDC OUT

The SCB-100 supplies power to the optional NET-100 network adaptor. If you are using the NET-100 adaptor, connect the power wire from the NET-100 to the 12VDC output terminal.



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