coloronix®
COLORFUL ARCHITECTURAL ILLUMINATION

SCC5-IR-DMX

SCC5-RM-DMX

Contents

Specifications

Power Input: Direct 120VAC 50Hz/60Hz or 24VDC Option Available 0.15A Max.
Power Consumption: 2W
Temperature Rating: 0°F - 120°F Ambient

Planning for Installation

Unpacking

The Color Ray Receiver and Remote Control is shipped assembled with no additional assembly needed—they are shipped in separate packages.

Any optional accessories are included in the package. Use the packing list located on the outside of the box to ensure all accessories are included.

Survey the unit to make sure the units are all intact—not cracked or damaged. Any damages to the package or its contents are of the buyer's responsibility; please follow protocol for filing damage claims. Please recycle or appropriately discard of any packing materials.

Points to Consider About Data

- Use a Belden 9481 or similar cable for DMX data connectivity or Plenum rated CAT5 8-wire cable.
- AC Power and DATA cables may NOT run in the same conduit due to possible induced errors.
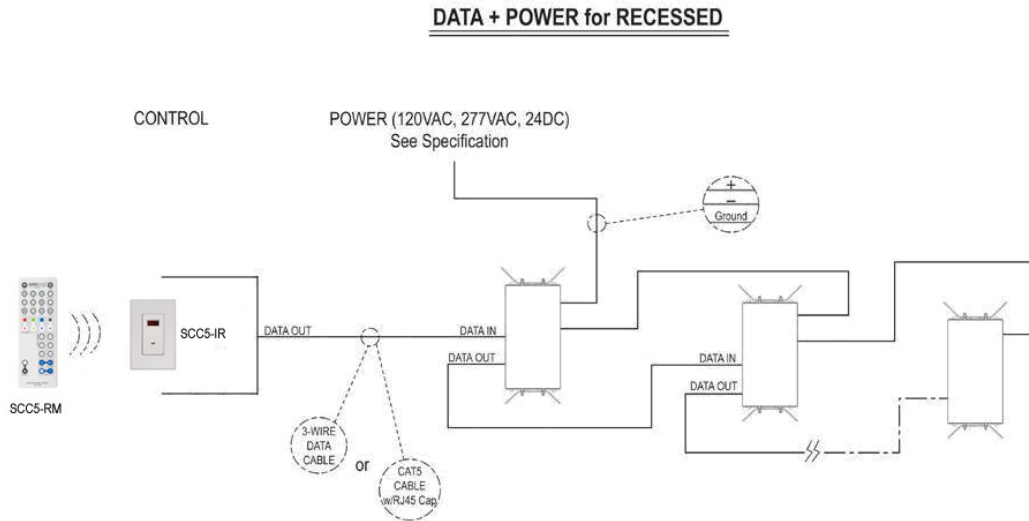
Electrical Connection

NOTE: Supply lead wires should not be connected to a dimmer of any sort.

Installing Your SCC5-IR Receiver

1. Prepare Wires:
   Note: Make sure the low-voltage wiring is installed at the wall box that will house the Color Ray receiver.
   - Be sure that the ends of the wires from the wall box are straight—cut if necessary.
   - Remove 5/8" or 1.6 cm of insulation from each wire in the wall box.

2. Connect CAT5/RJ45 Cable to on board RJ45 jack.

DATA + POWER for RECESSED

3. Connect Power

   Connect the line voltage (120V) wires in the following manner:
   Screw the wire nuts clockwise so that no bare conductors show below the wire connectors. Secure each connector with the electrical tape.
   - Green dimmer Ground lead to Green or bare copper wire in wall box.

4. Test the Color Ray Receiver prior to mounting in wall box:

   - Restore the power at the circuit breaker or fuse.
   - Turn remote on to test.
   - If the lights still do not turn on, refer to the troubleshooting section.

Note: set all fixtures to DMX address 1 (dip switch 1 in the UP position in Coloronix fixtures with Dip Switches)

5. Mounting

   1. Turn off the power at the circuit breaker or fuse.
   2. Carefully position all wires so that there is room for the wall box for the dimmer.
   3. Mount the dimmer into the box with the supplied mounting screws.
   4. Attach the wallplate.
   5. Complete the installation by restoring power at the circuit breaker or fuse.

Data Connection

Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard, no more than 32 fixtures should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DATA optically-isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended serial data link distance: 500 m (1640 ft)
Maximum recommended number of fixtures on a serial data link: 32

DMX Data Cable

If installer prefers 3-wire data cables, we suggest a Belden© 9481 or equivalent cable which meets the specifications for EIA RS-485 applications (Use PCL002 DMX hardwiring DMX coupler). Standard microphone cables cannot transmit Color Ray signal reliably over long distances. The cable must have the following characteristics:

Type: *shielded, 2-conductor twisted pair*
Maximum capacitance between conductors:
                                                                            30 pF/ft
Maximum capacitance between conductor and shield:
                                                                            55 pF/ft
Maximum resistance: *20 ohms/1000 ft*
Normal impedance: *100~140 ohms*

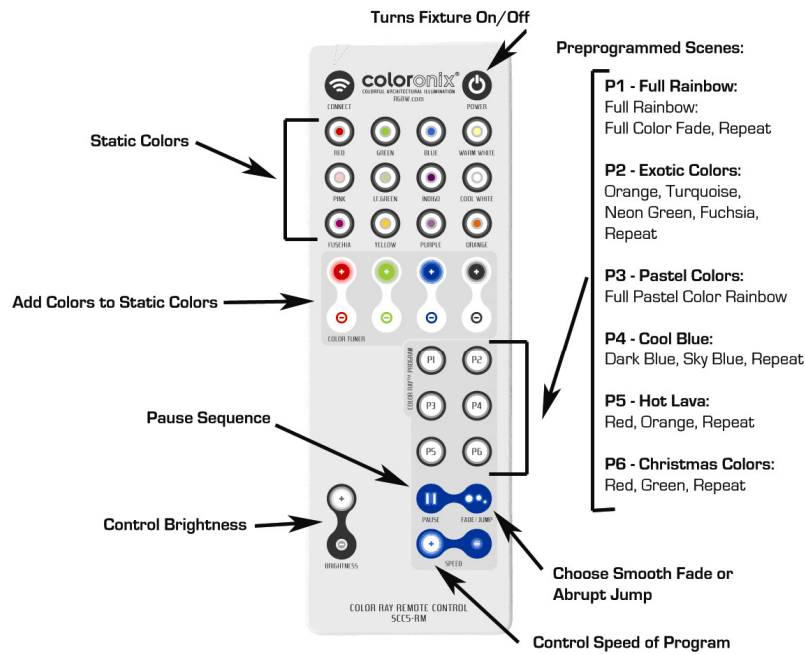If installer prefers a RJ45/CAT5 Data installation, a RJ45 jack can be used.

Notice: To comply with all local codes and jurisdiction, qualified communications technicians must do communications wiring.

Notice: Communication cables and AC power lines must not be run in the same conduit.

A. Route Data Cables in series between housing and any communications accessories using DATA IN and DATA OUT.
B. In order that they may be easily accessed from the room once construction is complete, secure data cables in the immediate proximity of the housings.

Coloronix strongly recommends clearly marking communication cables in such a way to indicate the correct order of connection.

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Remote Control Interface

Turns Fixture On/Off

Static Colors

Add Colors to Static Colors

Pause Sequence

Control Brightness

Preprogrammed Scenes:

P1 - Full Rainbow:
Full Rainbow:
Full Color Fade, Repeat

P2 - Exotic Colors:
Orange, Turquoise,
Neon Green, Fuchsia,
Repeat

P3 - Pastel Colors:
Full Pastel Color Rainbow

P4 - Cool Blue:
Dark Blue, Sky Blue, Repeat

P5 - Hot Lava:
Red, Orange, Repeat

P6 - Christmas Colors:
Red, Green, Repeat

Choose Smooth Fade or Abrupt Jump

Control Speed of Program

Troubleshooting Guide

If light does not turn ON and ON/OFF LED does not turn on, check if:
    Lamp is burned out.
    Lamp neutral connection is not wired.

If does not light, check if:
    Electrical power is not connected.
    Electrical power is less than specific voltage.
    Electrical power is greater than specified voltage.

If control operation flickers or is intermittent, check if:
    Color Changing fixtures or final DMX device in daisy chain is not terminated.
    DATA cable is damaged.

Further Troubleshooting

Should problems occur while using the product, unplug it at once and contact:
    Coloronix, Inc.
    Tech Support: (909) RGBW-555
    support@coloronix.com