

# cMOPS-150

## INSTALLATION GUIDE

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MODEL# PWR-cMOPS-150

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MAN-0018 Rev 02

### INSTALLING cMOPS-150

Color Kinetics® cMOPS-150 is specially designed to supply power and data to Color Kinetics™ C-200 Security, C-200 WaterColor, and ColorBlast® fixtures.

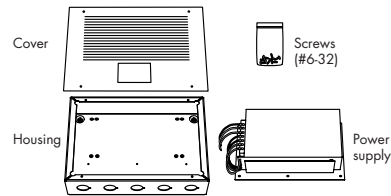
This fixture should be installed by a qualified electrician in accordance with NEC and relevant local codes for power supplies with Class 2 outputs.

**WARNING:** cMOPS-150 is rated for installation in environments where the temperature does not exceed 104°F (40°C). To ensure product performance, a volume of 8 cubic feet of air is required around the unit. This power supply is not suited for outdoor locations and shall be shielded from water spray.

### Unpacking

- Lift the power supply out of the housing, and remove the packing material from the cover and power supply. (See Fig. 1.)

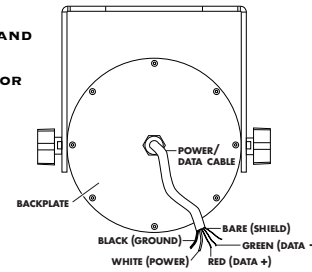
Fig. 1



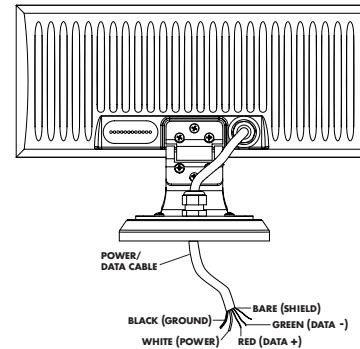
### Mounting the cMOPS Housing

- Select the location to mount the housing, keeping in mind that the maximum cable run from cMOPS to each lighting fixture is 75 feet for C-200 Security or WaterColor, and 60 feet for ColorBlast.
- Punch out the appropriate number of 3/4" conduit holes. Use at least 3 holes to separate the following: incoming power (line voltage), incoming data, and outgoing data and power (DC voltage).
- Mount the housing to the wall using four #6 dry wall screws. Mounting holes are located at the bottom of the housing, one at each corner.

C-200  
 SECURITY AND  
 C-200  
 WATERCOLOR



COLORBLAST



### Connecting Light Fixtures to cMOPS

**WARNING:** Make sure the power supply is off before connecting or disconnecting fixtures. Otherwise, damage to the fixture may result.

cMOPS-150 supports up to a total of six C-200 Security or WaterColor fixtures, or four ColorBlast fixtures. (See Table 1.)

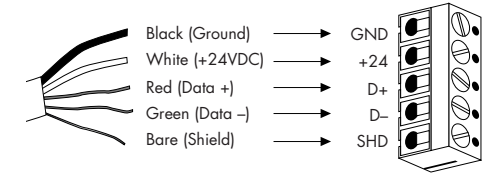
The maximum cable run from cMOPS to each lighting fixture is 75 feet for C-200 Security or WaterColor fixtures, and 60 feet for ColorBlast fixtures. (See Table 1.)

Table 1

	C-200S	C-200W	ColorBlast
Units supported	6	6	4
Max. cable run	75'	75'	60'

- Connect the five color-coded wires at the end of the power/data cable to any of the green five-position screw terminal blocks on the power supply. (See Fig.2)
- Connect only one light fixture per terminal.

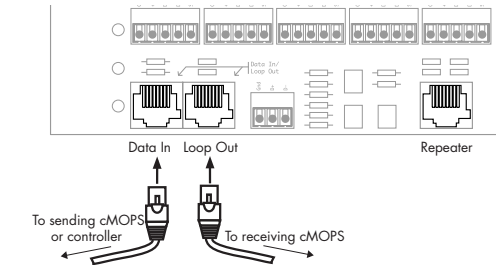
Fig. 2



### Connecting Data to cMOPS

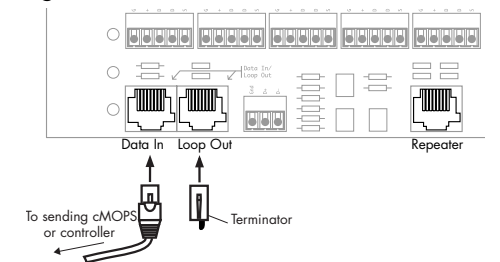
- There are three RJ45 ports on the power supply labeled DATA IN, LOOP OUT, and REPEATER. The three-position screw terminals labeled DATA IN, LOOP OUT, and REPEATER may be used in place of the RJ45 ports.
- Connect your controller to the port labeled DATA IN. Data will pass automatically from this port to each light. (See Fig. 3.)
- To send data to another cMOPS-150 or other Color Kinetics product with direct DMX input, connect an RJ45 cable between the LOOP OUT port of the sending unit and the DATA IN port of the receiving unit. (See Fig. 3.)

Fig. 3



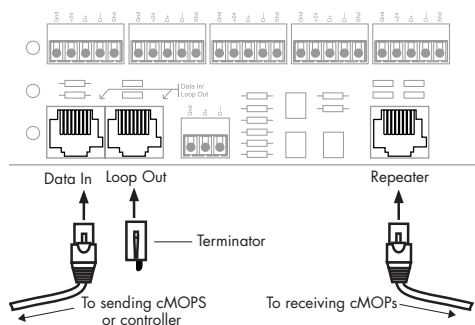
- Make sure a terminator is installed in the LOOP OUT port of the last unit in the chain. (See Fig. 4.) Single units should also be terminated. (Data terminators are available from Color Kinetics.)

Fig. 4



- The REPEATER port boosts the data signal for longer chains. Use the REPEATER port instead of LOOP OUT on every 32nd cMOPS unit in a chain, or when the cable run between two power supplies is more than 400 feet. Make sure a terminator is installed in the LOOP OUT port if the REPEATER port is used. (See Fig. 5.)

**Fig. 5**

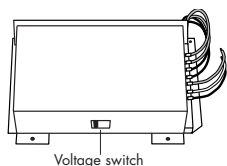


## Connecting Power to the Power Supply

**NOTE:** It is the end user's responsibility to use the proper conductors to permanently mount the incoming facility power and to provide means for disconnecting the system.

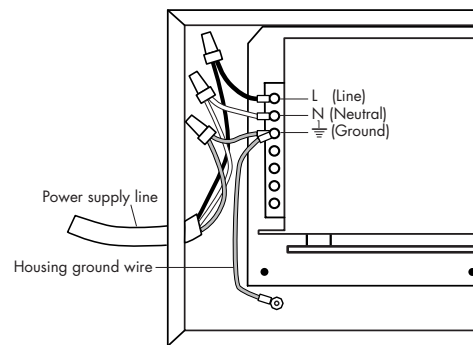
- Set the voltage switch to 115 or 230V AC, depending on your source voltage. (See Fig. 8.) The unit is set to 230V AC as a factory default.

**Fig. 8**



- Pass the power supply line through one of the 3/4" holes in the metal housing. Attach the appropriate conduit connector. Connect power lines to the wires labeled N (neutral), L (line), and ⚡ (ground). (See Fig. 7.)

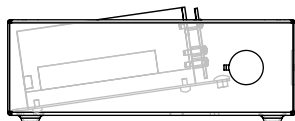
**Fig. 7**



- Connect the housing ground wire to the threaded post in the housing. (See Fig. 7.)
- Ensure that the unit is mounted inside the housing by lining up the two tabs on the power supply backplate with the two slits on the inside of the housing. The unit may need to be inserted at a slight angle as shown in Fig.8 to slide the tabs in easily.

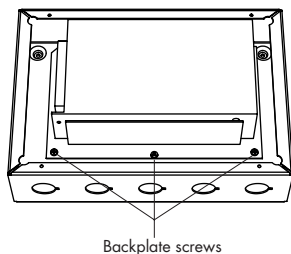
**WARNING:** Do not apply excess pressure to the circuit board when you insert the power supply into the housing.

**Fig. 8**



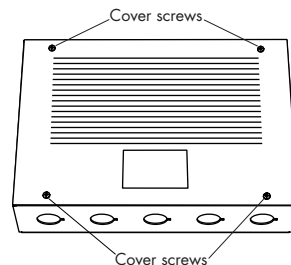
Once the tabs are in place, attach the backplate to the housing using three of the #6-32 screws. (See Fig.9). A power screwdriver is recommended for this step.

**Fig. 9**



- Place the cover on the housing, making sure that the vent holes are located above the power supply for proper ventilation, and secure the cover using the remaining four #6-32 screws. (See Fig. 10) A power screwdriver is recommended for this step.

**Fig. 10**



## cMOPS-150 Specifications

**Power Output** 6 A @ 24 V DC (150 W)

**Power Input** 115/230 V AC (user-selectable)

**Packaging** NEMA-style enclosure for installation with power supply

**Dimensions** 10.5" X 7.5" X 2.7"

**Connectors** Screw terminal or RJ45 data input and output connectors; screw terminal power output connectors

**Listings** UL Listed

**Data Interface** DMX512 (RS485) compatible

- Repair the product by means of hardware and/or software or
- Replace the product with another product or
- If Color Kinetics is unable to repair or replace the particular product, refund the then current value of the product.

This limited warranty does not cover damages due to external causes, including, but not limited to, accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, modification, repair, improper installation, or improper testing. Color Kinetics is not responsible for indirect, incidental, or consequential damages resulting from any breach of warranty or under any other legal theory including, but not limited to, lost profits, downtime, goodwill, damage to or replacement of equipment and property.

To obtain warranty service, you may contact your distributor in accordance with its instructions, or you may contact Color Kinetics. To request warranty service you should call Color Kinetics during the warranty period. Proof of purchase or registration is required. When calling within warranty, please provide:

- 1) Your name, shipping address, and telephone number
  - 2) A description of the model and serial number
  - 3) An explanation of the problem
- A Return Authorization (RA) number and ship-to address will be provided to send the product back.

The warranty and remedies set forth above are exclusive and in lieu of all others, whether oral or written, express or implied. Color Kinetics specifically disclaims any and all implied warranties, including, without limitation, warranties of merchantability and fitness for a particular purpose. No Color Kinetics distributor, dealer, agent or employee is authorized to make any modification, extension, or addition to this warranty. This warranty gives you specific legal rights, and you may also have other rights that vary from jurisdiction to jurisdiction.

## Manufacturing Standards

Color Kinetics products are manufactured in the USA, Ireland, and China.

## U.S. and Foreign Patents and Patents Pending

Color Kinetics Incorporated grants the purchaser of its lighting products and controllers a personal and non-transferable license to use Chromacore™, its patented technology for networkable control of LED-based color-changing lighting fixtures for illumination, display and design. This license is granted only by Color Kinetics Incorporated, and may not be transferred except by the grantor. The design, duplication, manufacture, or sale of other products using networkable control of LED-based color-changing lighting may be prohibited and is not licensed hereunder. Other patents pending.

## One Year Limited Hardware Warranty

Color Kinetics Incorporated warrants its products, if properly used and installed, will be free from defects in materials and workmanship and will substantially conform to Color Kinetics' publicly available specifications for a period of one (1) year after the date the product was purchased by the end user.

If the product fails during the warranty period, purchaser's remedy under this limited warranty shall be at Color Kinetics sole election: