



Power Supply User Manual



19000 – 24-Way Coloram Power Supply (600 watts)
19012 – 12-Way Coloram Power Supply (300 watts)
19060 – 6-Way Coloram Power Supply (150 watts)

Software versions: PS24 V3.0, PS12 V3.0, PS6 V3.0

Manual revision: April 14, 2003

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SAVE THESE INSTRUCTIONS

READ AND FOLLOW ALL INSTRUCTIONS

IMPORTANT SAFETY INSTRUCTIONS

This manual gives step-by-step instructions for preparation, setup and operation of the Coloram II Power Supply.

There is a potential risk of fire, electric shock or injury to persons if the product is not used as instructed.

This product is to be used in an indoor environment only and is not intended for residential use.

Introduction

The Coloram II System consists of scrolling color changers, mixing color changers, dowsers, other products and power supplies in a wide range of models offering ease of setup and use. Its color changing capability and DMX compatibility affords the designer wide capability and versatility. The lightweight color changers slide easily into the gel frame holder of the light fixture. The compact power supplies attach easily to the truss of the lighting rig or mount into a 19-inch rack.

The Coloram II System

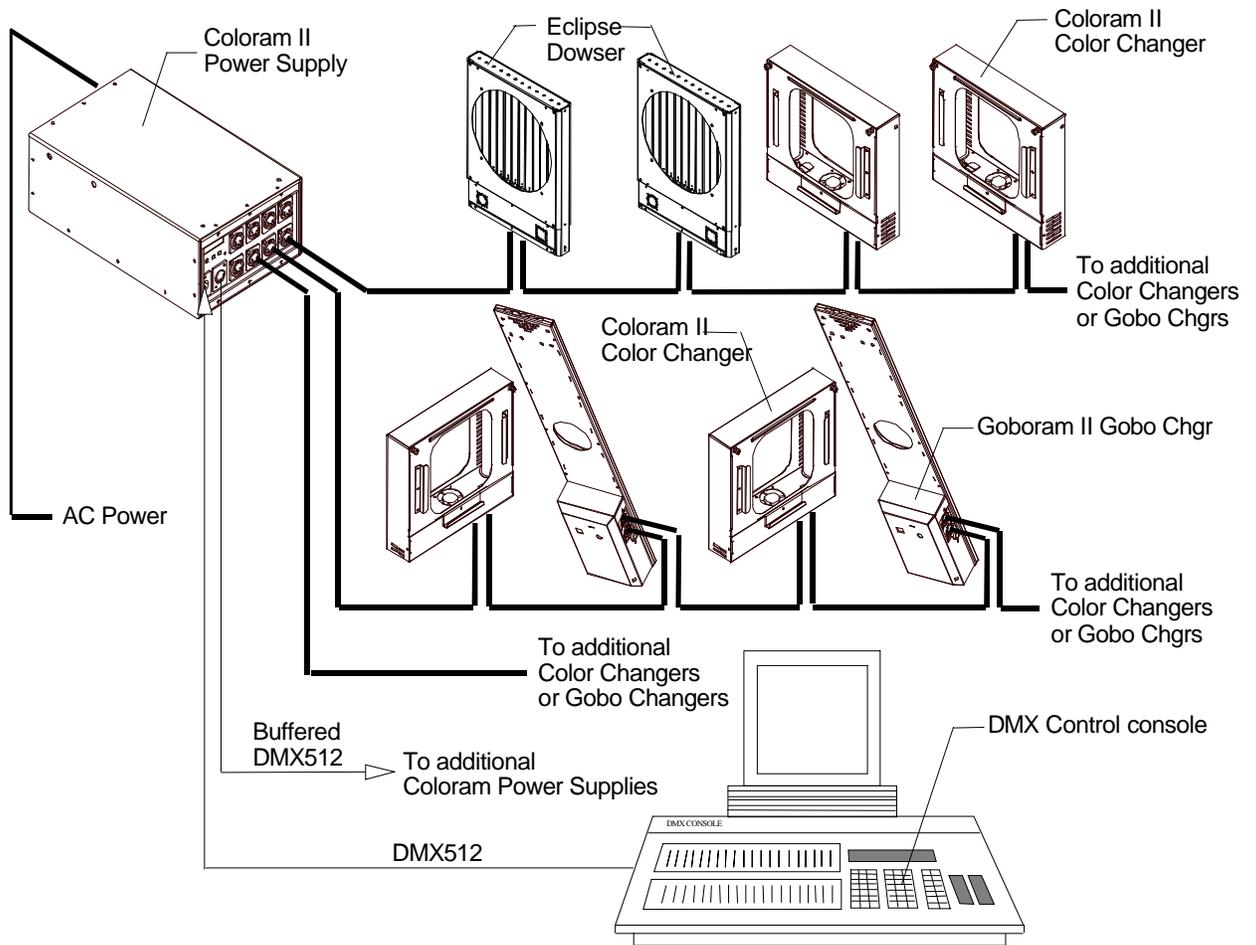
The Coloram II System consists of one or more Color Changers or other components and a remote power supply. The DMX512 control signal from the lighting board is connected to the power supply and can continue on to more Coloram II Power Supplies or other DMX-controlled devices. The power supply sends both power and control signal on a single cable eliminating the need for a separate power cable for each color changer.

The Coloram II System also allows you to control the color changer fan speed via one or multiple DMX channels on the lighting console.

The Coloram II System is equipped with the Intelligent Diagnostic System (IDS). Status information is sent from each of the Coloram II Color Changers to the Coloram II Power Supply.



Caution: The Coloram II System is not compatible with the Forerunner System. Do not connect Coloram II Color Changers to Forerunner Power Supplies, or Forerunner Color Changers to Coloram II Power Supplies. Damage from such action will not be covered by the Coloram II or Forerunner warranties.



The Coloram II System Components

Color changers and other components

The color changers set the position of the gelstring via a signal from the lighting console. The control signal and DC power (24 VDC) are both supplied in one cable connecting the color changers to the power supply.

Other Coloram II products include the Eclipse Dowser, the CXI Color Changer and others. Other products are continually being added to the Coloram II family to expand its capabilities.

Refer to the user manual of the various Coloram II products for detailed operating information on those products.

Power Supply

The power supply converts the DMX512 signal level from the lighting console into Coloram I/Coloram II control signal which it then sends to each color changer along with 24 volts DC. The power supply features a DMX bypass relay to pass the DMX signal to the DMX output connector in the event of AC power loss.

The power supply features an 8 character LED display and three selector buttons. This user interface is used to select the starting DMX channel, set operating modes, send remote commands to the color changers and view color changer status.

Coloram II Cable

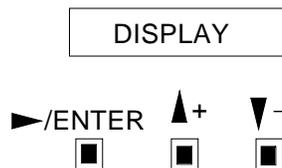
The Coloram II Cable connects the Coloram II Power Supply outputs to the Coloram II Color Changers or other products and provides them with power and control signal. The Coloram II Cable uses 4-pin XLR connectors on either end and consists of two 14 AWG conductors and a 22 AWG twisted, shielded pair.

Note: Colroam II Cable is used in the Coloram II System and in the Forerunner System. It may be referred to as either Coloram cable or Forerunner cable.

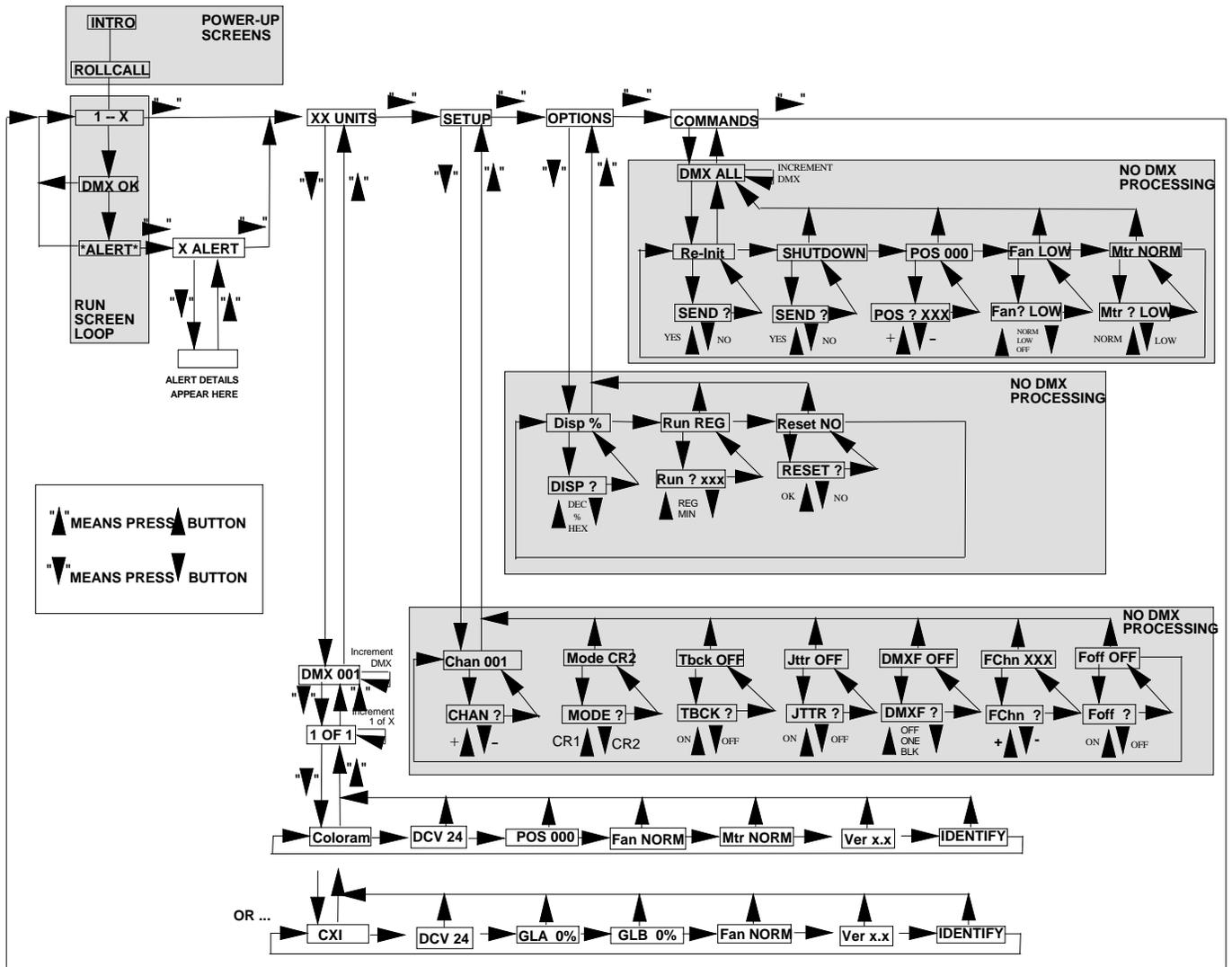
The Coloram II Power Supply menu

This section describes the power supply menu.

The following diagram is the eight character display and the three push buttons:



The following diagram is an overall view of the power supply menu structure:



Menu Details

The following is an explanation of functions and optional settings which are accessed via the various menus displayed.

POWER UP SCREENS

When you connect the power supply to AC power, the following screens will appear on the display.

1. The INTRODUCTION screen will scroll through the software version and other information.
2. The ROLLCALL screen shows when the power supply interrogates the color changers and other components connected to the power supply. This is the time the color changers "check in" with the power supply.

RUN SCREEN LOOP

The display alternates between three screens.

The first is "**1 -- X**" where X is highest DMX channel used by a color changer (or other component) connected to the power supply. If talkback is ON, X will be the highest DMX channel used by the talkback function.

The second screen is "**DMX OK**" if the DMX signal is being properly received. It is "**NO DMX**" if the DMX signal is not being properly received.

The third screen is " ***ALERTS*** " if there are any alert conditions to report.

ALERTS / ERROR MESSAGES

The power supply will display "alert messages" indicating a condition a service person may want to know about.

The alert messages and meanings are as follows:

Note: the "xxx" after each message is the DMX channel to which the message applies.

"Pstn xxx" - Gel position error - a difference exists between the commanded gel position and the actual gel position.

"VDC xxx" - Color changer voltage is below 17 volts DC.

"Shut xxx" - Color changer reports a SHUTDOWN condition (will not respond to position commands because the voltage dropped below 15 VDC).

"Drop xxx" - Color changer is disconnected and there is a loss of communication - it previously reported a status but is no longer doing so.

"Motr xxx" - The color changer's motor cannot move the gel string.

"ChErr xxx" - There is a channel assignment problem with the color changer set to start on channel xxx. For example, some of the multiple channels used by the color changer fall past the last channel available on the power supply.

"Overload" - This is displayed when the power supply has not yet reached its current limit, a unit "checks in" which has a current requirement at least 2 times that of a Coloram II and the resulting total current load on the power supply is over the power supply's limit. This last unit will remain checked in. However, no more units will be allowed to check in.

It is important to note that if the power supply is at its current limit (but not exceeded), it will not "check in" any other units and the "Overload" message will not be displayed.

"DMX Chan"-This is displayed if the DMX source is sending less than 512 channels and the last DMX channel sent is less than the last DMX channel in the power supply channel range.

"Fan Chan" - This is similar to the "DMX Chan" explanation above but applies to the fan DMX channel or fan DMX channel block.

To read the above "alert messages", do the following:

1. When *ALERT* is being displayed, press **▶/Enter** . Then the number of alert messages will be displayed.
2. As an example: "2 ALERTS" indicates there are 2 problems (alerts).
3. Press "t" button to get more information on the alerts.
4. As an example: "Pstn 001" indicates the head unit #1 has a position error.
5. Press **▶/Enter** to get information on other alerts.
6. Viewing the alerts in this manner also "clears them" unless the problem currently exists.

XX UNITS

This is commonly referred to as the status menu. It displays the number of color changers, CXIs and/or other Coloram II components connected the power supply.

Press [**▼**]

DMX 001 - Pressing [**▶/Enter**] allows you to select the DMX channel of the color changer or gobo changer which you wish to view the status of. Only channels with color changers or gobo changers set to them will be displayed.

Press [**▼**]

1 of 1 - Pressing [**▶/Enter**] allows you to select a specific color changer or gobo changer if more than one color changer or gobo changer is set to that channel.

Press [**▼**]

For the Coloram II color changer:

ColoRAM - Indicates there is a color changer addressed to this channel.

[**▶/Enter**]

DCV 24.0 - This displays the DC voltage at the color changer.

[▶ /Enter]

Pos 000 - This displays the actual position of the gelstring. If the color changer is moving toward FL, an arrow pointing to the right (>) will be displayed. If the color changer is moving toward 00, an arrow pointing to the left (<) will be displayed.

[▶ /Enter]

Fan NORM - This displays the fan status; HI, LOW, or OFF.

[▶ /Enter]

Mtr NORM - This indicates if the motor speed is set to normal or low.

[▶ /Enter]

Ver x.x - This tells you the software version installed in the color changer set to the channel you are looking at.

[▶ /Enter]

Identify - Pressing [▼] will cause the color changer, whose status you are viewing, to initialize.

For the CXI color changer:

CXI - Indicates there is a CXI color changer addressed to this channel.

[▶ /Enter]

DCV 24.0 - This displays the DC voltage at the CXI.

[▶ /Enter]

GLA 0% - This displays the % position of gel string A (farthest from the mounting plate).

[▶ /Enter]

GLB 0% - This displays the % position of gel string B (nearest the mounting plate).

[▶ /Enter]

Fan NORM - This displays the fan status; HI, LOW, or OFF.

[▶ /Enter]

Ver x.x - This tells you the software version installed in the color changer set to the channel you are looking at.

[▶ /Enter]

Identify - Pressing [▼] will cause the color changer, whose status you are viewing, to initialize.

For the Goboram II:

GoboRAM - Indicates there is a gobo changer addressed to this channel.

[▶ /Enter]

DCV 24.0 - This displays the DC voltage at the gobo changer.

[▶ /Enter]

Pos 000 - This displays the position of the gobo section channel. If the gobo changer is moving the carriers toward FL, an arrow pointing to the right (>) will be displayed. If the gobo changer is moving the carriers toward 00, an arrow pointing to the left (<) will be displayed.

[▶ /Enter]

Rot 000 - This displays the rotational position of the gobo. If the gobo changer is rotating the carriers toward FL, an arrow pointing to the right (>) will be displayed. If the gobo changer is rotating the carriers toward 00, an arrow pointing to the left (<) will be displayed.

[▶ /Enter]

Spin OFF - When the third control channel for this gobo changer has a level of 99 or less, this display will tell you the continuous rotation option is off. When the third control channel has a level of FL, the display will tell you the gobo is spinning counter clock wise if the second control channel has a level of 00 - 49%. The display will tell you the gobo is spinning clock wise if the second control channel has a level of 51% - FL. When the third control channel has a level of FL and the second control channel has a level of 50%, the display will tell you the gobo is not spinning by showing HLD.

[▶ /Enter]

Ver x.x - This tells you the software version installed in the gobo changer set to the channel you are looking at.

[▶ /Enter]

Identify - Pressing [▾] will cause the gobo changer, whose status you are viewing, to initialize.

SETUP

This menu is used to display and select the starting DMX channel as well as other operating modes.

Pressing [▾] at any of the following options will bring up a question mark (?) behind the option. Pressing [▲] and [▾] will increment and decrement numbers such as channels or toggle options such as on or off. Pressing [▶/Enter] will confirm your selection and the question mark will go away.

[▾]

Chan 001 - This allows you to select the first channel of the DMX channel block which the Power Supply will respond to.

[▶/Enter]

Mode CR2 - This selects original Coloram 1 (12 channel mode - CR1) or Coloram II (24 channel mode - CR2). This option must be set to CR1 to work with original Coloram I color changers which have not had the Coloram II software upgrade.

[▶/Enter]

Tbck OFF - This option turns talkback to a remote status monitor on or off. Status of the color changers or gobo changers will still be displayed in the status menu. If this is turned on, the first channel of the power supply's DMX channel block is limited to 1, 4, 7, 10, 13, 16, etc.

[▶/Enter]

Jttr OFF - This option turns the jitter filter on or off. This option may be necessary for AMX to DMX converters which can have LSB jitter.

[▶/Enter]

DMXF OFF - DMX fan control channel. This enables or disables the lighting console fan speed control. This can be OFF (do not control the fans via a DMX channel), ONE (select one DMX channel to control all the color changer fans connected to that power supply) or BLK (select a BLOCK of DMX channels - one DMX channel for each channel of the power supply (12 channels for a 12 way power supply)).

If you use BLOCK, do not mix single channel Coloram IIs and multi-channel products (such as CXI color changers). Also, if the CXIs or any other multi-channel components are used, they must all be configured to use the same number of DMX channels.

The following two screens will be displayed only if the DMX fan option is turned on.

[▶/Enter]

FChn 025 - This allows you to set the DMX fan control channel (ONE or first channel of the BLOCK) to any channel between, and including, 001 and 512.

[▶/Enter]

Foff OFF - When turned on, this feature allows you to turn the fans in the color changers off from the lighting console. This is done by sending a level of 8% to the fan control channel. This unusual level was chosen to minimize the probability of unintentionally turning the fans off.

OPTIONS

This menu is where you select the power supply display mode.

Pressing [▼-] at any of the following options will bring a up a question mark (?) behind the option. Pressing [+▲] and [▼-] will increment and decrement numbers or toggle options. Pressing [▶/Enter] will confirm your selection and the question mark will go away.

[▼-]

Disp % - This option allows you to select how the power supply will display position information in the status menu and in the commands menu. The options are decimal (0 - 255), % (0 - 100), or hex (0 - FF).

[▶/Enter]

Run REG - This option affects the main run screen which is displayed after initial power up of the power supply. The purpose is to minimize the flashing display characters which may be distracting if seen. When set to REG, the display will alternate between the selected channel range, DMX OK or NO DMX, and *ALERT* if any alerts are present. When set to MIN, the display will not alternate. You will see the display as follows:

001 - - 048

If NO DMX signal is present, you will see the display (the first - changes to a +) as follows:

001 + - 048

If an alert has been triggered with the presence of DMX signal, you will see the display (the second - changes to a +) as follows:

001 - + 048

If an alert has been triggered without the presence of DMX signal, the display will look as follows:

001 + + 048

[▶/Enter]

Reset: This option allows you to reset all parameters to factory default. This resets all parameters found in the setup menu, the display to read out in %, and erases all color changer/gobo changer status information.

COMMANDS

This is the menu you use to send local commands to the color changers and gobo changers.

Pressing [▼-] at any of the following options will bring up a question mark (?) behind the option. Pressing [+▲] and [▼-] will increment and decrement numbers or toggle options. Pressing [▶/Enter] will confirm your selection and the question mark will go away.

[▼-]

DMX ALL - This will send commands to all color changers or gobo changers connected to this power supply. Pressing [▶/Enter] allows you to select the DMX channel of the individual color changer or gobo changer which you wish to send commands to. Channels with color changers or gobo changers set to them will be indicated by an asterisk.

[▼-]

Re-Init - This will cause the color changers or gobo changers to re-calibrate their gelstrings or gobo carriers.

[▶/Enter]

Shutdown - This will shut down motor drive in the selected color changer or gobo changer. The unit will not respond to position commands.

[▶/Enter]

Pos - This allows you to move the gelstring or gobo carrier independently from the lighting console.

[▶/Enter]

Fan - This allows you to change the fan speed independently from the lighting console.

[▶/Enter]

Mtr - This allows you to limit the top speed at which the motor will run. This applies to Coloram II.

Installing / Connecting the Coloram II Power Supply

To get your Coloram II Power Supply up and running, follow these hookup and checkout procedures.

1. Mount the power supply

The Coloram II Power Supply is designed to be free standing, truss mounted, or rack mounted.

The power supply comes with a mounting bracket which hooks over the pipe or truss of your lighting rig and is then locked into place with a thumb screw. If you have selected this mounting method, connect the power supply's safety cable by clipping it around the pipe or truss.

The power supply can also be mounted into a 19" rack using the optional Coloram II Power Supply rack mount kit. The rack mount kit will accommodate two Coloram II Power Supplies side by side.

2. Connect the color changers to the power supply

Connect the color changers to the power supply using 4-pin Wybron DMX power/signal cable.

Refer to the HEAD-FEET RESTRICTION section of the manual for details of the length of cable runs.

Note: The Wybron DMX Cable has been specially designed to minimize voltage drop -- use only Wybron supplied cable.

3. Connect the Power Supply to AC power

Plug the AC cord into a non-dimmed power circuit. The power supply automatically accommodates 100 - 132 VAC (50/60 Hz) or 170 - 240 VAC (50/60 Hz).

Power at the Coloram II Power Supply is indicated by the red display which can be viewed from the stage. Power is also indicated on the bottom of each color changer by a red or yellow LED.

The connected color changers will automatically "check in" with the power supply and "initialize" the gelstring installed by doing the following actions:

1. Moving the gelstring toward the last frame, in search of the long foil tag.
2. Turning around at the long foil tag and then searching for the short foil tag at the beginning of the gelstring.
3. Stopping at the short foil tag and staying there if no DMX signal is present or going to it's commanded position if DMX signal is present.

Note: It may take up to 30 seconds before all color changers start to initialize. Upon power up, the power supply will scroll a short message which includes the software version installed in it. The power supply will then initiate a "roll call" which tells the color changers to "check in" and initialize the gel string.



Caution: Do not power the power supply from a dimmer. Severe damage will result and is not covered by product warranty.

4. Set the Power Supply/Color Changer Channels

Each color changer is assigned a DMX address to which it will respond. Valid DMX addresses are 001 - 512.

First, set the first channel for the block of DMX channels selected for the power supply. Then, set the color changer for the first, second, etc channel of that block of channels.

For example, if you want a color changer to respond to DMX channel 105, first set the power supply channel block to start on channel 105 and then set the color changer to 1 which is the first channel in the block of power supply channels - channel 105.

The block of channels varies with the power supply model. For the 24-way power supply, the block is 48 channels. For the 12-way, it is 24 channels and for the 6-way, it is 12 channels.

Set the power supply starting DMX channel by using the SETUP menu. If talkback is enabled on the power supply, the starting power supply channels are limited to 1, 4, 7, 10, 13, etc.

Fan speed (when enabled at the power supply) is remotely controlled with the following DMX levels:

51% to 100% -- fan at normal (high) speed

0% to 50% -- fan at low speed

8% = fan off (when this function is enabled at the power supply)

Refer to the user manual of the various Coloram II products for detailed operating information on those products.

The formula for calculating DMX channels is as follows:

Color Changer DMX channel = Color Changer channel + Power Supply starting channel - 1

Example: Color changer DMX channel (221) = color changer channel (20) + power supply starting channel (202) - 1

Note: For the 24-way power supply, the Coloram II color changers can only be addressed to the first 24 channels of the 48 channel block of the power supply.



Note: The color changers will not respond to the DMX signal until you return in the "menu tree" to the RUN SCREEN loop.

5. Connect and set the DMX512 source

Connect the DMX512 signal source to the DMX input connector on the front of the power supply using standard DMX cable. Valid DMX signal will be indicated by the words "DMX OK" on the power supply display. The color changers will now position their gelstrings according to their respective DMX signal levels.

Head-Feet Restrictions

The HEAD-FEET parameter is a method of accounting for the voltage drop in the power/signal cable caused by the current drawn by each color changer.

To help understand this issue, think of it as water pressure (voltage) in a hose (cable) where you have multiple water sprinkler heads (color changers). If the hose (cable) is too long or you have too many sprinkler heads (color changers), the water pressure (voltage) will be too low.

HEAD-FEET is defined as "the sum of cable lengths from each color changer to a single power supply output".

Refer to the user manual of the various Coloram II System components for detailed head-feet information on those products.

"Head-Feet" Example:

There are four Coloram II color changers connected to a power supply. The Coloram II Cable between the power supply and the first Coloram II is 100 feet long. The cables between each of the Colorams is 20 feet long.

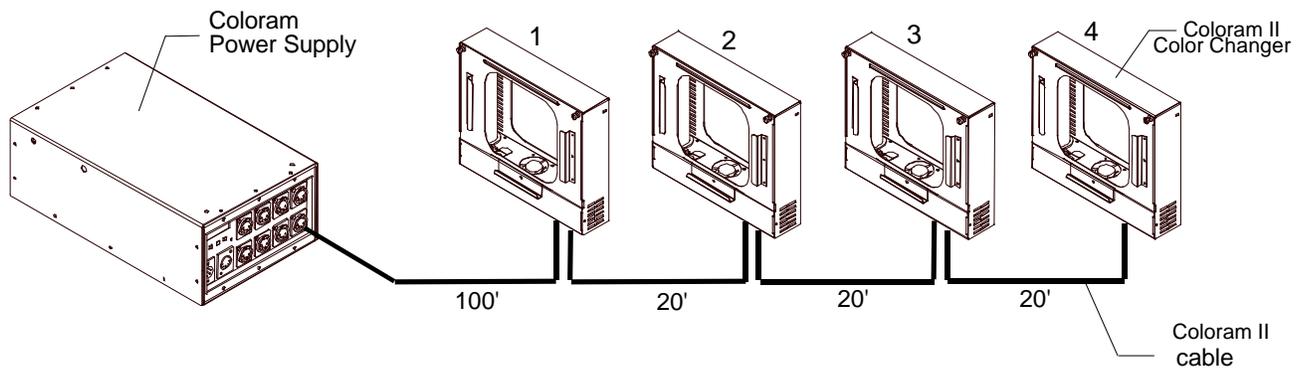


Figure 8

The amount of cable from the power supply to:

1st Coloram II	100 ft
2nd Coloram II	120 ft
3rd Coloram II	140 ft
4th Coloram II	160 ft

total:	520 Head-Feet

Mounting and installation accessories

The following sections describe the procedures for installation and replacement of mounting accessories.

Power Supply hanger brackets

The Coloram II Power Supplies are shipped with hanger brackets to allow pipe or truss mounting.

Follow these steps to install the hanger bracket.

1. Disconnect AC power from the power supply.
2. Place the power supply on its side on a flat surface.
3. Position the brackets as shown below.
4. Attach the bracket using a 3/16" Allen wrench and the supplied screws.

Note: Use the supplied thumb screws to clamp the hanger brackets to the desired pipe or truss.

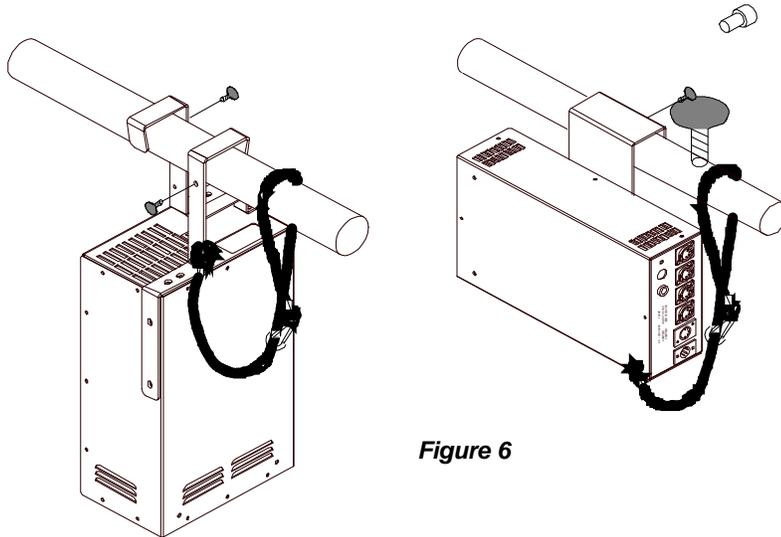


Figure 6

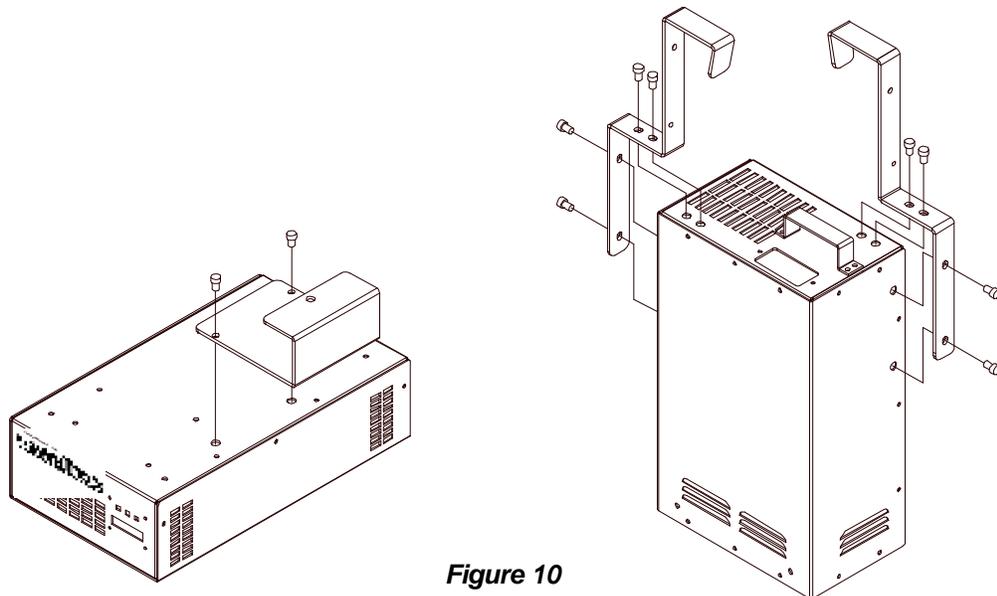


Figure 10

Power supply rack mounting

The Coloram II Power Supply rack mount accessory can be used with up to two Coloram II Power Supplies and allows them to be mounted into a 19-inch rack.

Follow these steps to install the power supply into the rack mounting tray.

1. Disconnect AC power from the power supply.
2. Place the rack mount tray right side up on a flat surface.
3. Position the power supply in the rack mount tray as shown below.
4. Attach the power supply to the rack mount tray using the supplied screws.

Note: The cover plate may be removed to allow installation of a second Coloram II Power Supply.

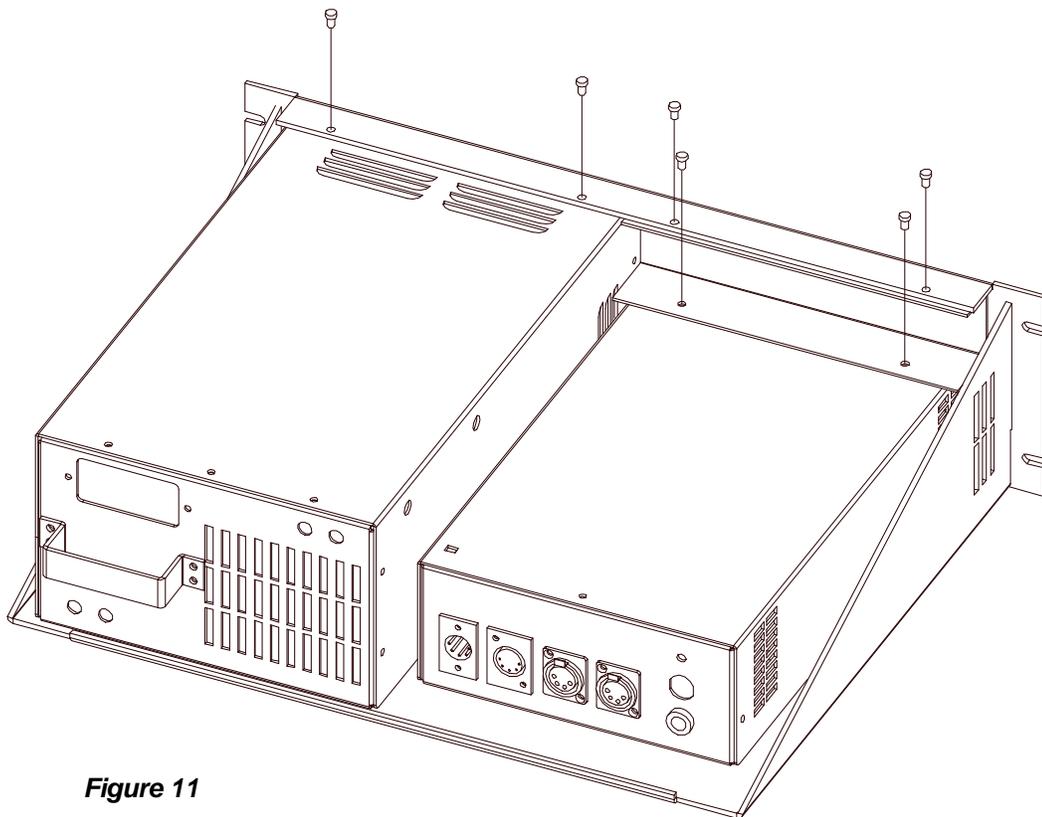


Figure 11

Equipment Compatibility

The following is a chart of compatibility and capacity of the various models of Coloram II Power Supply and the companion components.

<u>Power Supply Description</u>	<u>Model Number</u>	<u>Output Power</u>	<u>Max # of Channels Available</u>	<u>Max # of CXI (2)</u>	<u>Max # of Coloram (3)</u>	<u>Max # of Eclipse (4)</u>	<u>Max # of Goboram (5)</u>
6-Way	19060	150 watts	12	3	6	6	4
12-Way	19012	300 watts	24	6	12	12	8
24-Way	19000	600 watts	48	12	24 (1)	24 (1)	16

Notes:

- (1) can only use the first 24 channels
- (2) CXIs use 1, 2 or 3 channels
- (3) Colorams use 1 channel
- (4) Eclipses use 1 channel
- (5) Goboram IIs use 3 channels

Cables

Coloram II Cable

The Coloram II Cable uses 4-pin XLR connectors on either end and consists of two 14 AWG conductors and a 22 AWG twisted, shielded pair. The shells of the two XLR connectors are not electrically connected together -- this prevents large power currents from flowing from chassis to chassis of the Coloram II equipment. The twisted pair shield is not connected at either end.

XLR Pin #	Wire Color	Function	Size
1	White	24 Volts DC	14 AWG
2	Green	Data -	22 AWG
3	Red	Data +	22 AWG
4	Black	Ground	14 AWG

DMX512 control cable

The DMX control cable from the lighting board to the power supply is a five conductor cable with 5-pin XLR connectors on each end. The wiring pin out is specified by the USITT DMX512/1990 standard.

XLR Pin #	Function
1	Common
2	Data -
3	Data +
4	Talkback -
5	Talkback +

Specifications

The Coloram II Power Supply

Connectors:

DMX in: Male 5-pin XLR

DMX out: Female 5-pin XLR

Coloram output: Female 4-pin XLR

DMX512 termination: Terminated and regenerated

Fuse:

24-Way Power Supply - model 19000):

7 amp slo blo at 115 VAC

4 amp slo blo at 230 VAC

12-Way Power Supply (model 19012):

4 amp slo blo at 115 VAC

2 amp slo blo at 230 VAC

6-Way Power Supply (model 19060):

2 amp slo blo at 115 VAC

1 amp slo blo at 230 VAC

Input Power: Automatically accepts 100 - 132 VAC 50/60 Hz and

170 - 240 VAC 50/60Hz

Input Signal: 1990 USITT standard DMX512

LED display: Indicates power, signal, system status, and is used to
configure the system

Power loss DMX bypass relay: Yes

Size:

24 Way Power Supply:

14.66"/372.5mm L x 8.16"/207.4mm W x 5.34"/135.6mm H

12 Way Power Supply:

13.75"/349.2mm L x 7.85"/199.4mm W x 4.05"/102.9mm H

6 Way Power Supply:

12.45"/316.2mm L x 7.60"/193.1mm W x 3.65"/92.7mm H

Software Version Changes

The changes for power supply software version 3.0 from previous software versions are summarized below.

1. Added menu tree items to display data specific to CXI Color Changer.
2. The fan control DMX channel can be selected to be one channel or be a block of channels for individual color changer fan speed control (this block of channels is 24 for a 24-Way power supply, 12 for a 12-Way power supply and 6 for a 6-Way power supply)
3. Removed the clock function
4. The display will show the actual channel range used (e.g. 1-6 if 6 Coloram color changers are used and talkback is OFF). If talkback is ON the upper channel shown will be the last channel used by the power supply for talkback.
5. In the CRI mode, the power supply can control more color changers on separate channels.
6. Increased the highest starting channel (see the chart below)

Power supply		TlkBk	
desc.	model #	ON	OFF
24 way	19000	511	512
12 way	19012	511	512
6 way	19060	511	512

Parts list

To order any of the following items, contact your authorized WYBRON dealer.

The Coloram II Power Supplies

19000	Coloram II 24-Way Power Supply
19012	Coloram II 12-Way Power Supply
19060	Coloram II 6-Way Power Supply

The Coloram II mounting and installation accessories

1900-01-05P.....	24-Way Power Supply hanger bracket
715-01-03P.....	6-Way and 12-Way Power Supply hanger bracket
SCRWC252075.....	Wing screw for power supply hanger bracket to pipe
SCRSC2520037	Socket cap screw for hanger bracket to power supply

The Coloram II Cable

7042-3	3' power/signal cable
7042-5	5' power/signal cable
7042-10	10' power/signal cable
7042-15	15' power/signal cable
7042-25	25' power/signal cable
7042-50	50' power/signal cable
7042-75	75' power/signal cable
7042-100	100' power/signal cable

Warranty information

WYBRON, INC. warrants to the original owner or retail customer that for a period of one year from date of delivery of a portable system or energization of a permanently installed system (up to a maximum of 18 months from delivery) its products will be free from defects in materials and workmanship under normal use and service.

Warranty does not cover any product or part of a product subject to accident, negligence, alteration, abuse, misuse or any accessories or parts not supplied by WYBRON, INC. Warranty does not cover "consumable" parts such as fuses, lamps, or color media. WYBRON, INC.'s warranty does not extend to items not manufactured by us. Freight terms on warranty repairs are FOB WYBRON, INC. factory or designated repair facility. Collect shipments or freight allowances will not be accepted.

WYBRON, INC.'s sole responsibility under this warranty shall be to repair or replace at WYBRON, INC.'s option such parts as shall be determined to be defected on WYBRON, INC.'s inspection. WYBRON, INC. will not assume any responsibility for any labor expended or materials used to repair any equipment without WYBRON, INC.'s prior written authorization. WYBRON, INC. shall not be responsible for any incidental, general or consequential damages to property, damages for loss of use, time, profits or income, or any other charges.

The owner's obligations during the warranty period under this warranty are to notify WYBRON, INC. at WYBRON, INC.'s address within one week of any suspected defect, and return the goods prepaid to WYBRON, INC. at their factory or authorized service center.

This warranty is contingent on the customer's full and timely compliance with the terms of payment set forth in said purchase order. This warranty is expressly in lieu of any and all other warranties expressed or implied including the warranties of merchantability and fitness for a particular purpose and of other obligations and liabilities on our part. The owner acknowledges that no other representations were made to him or relied upon him with respect to the quality and function of the goods sold.

This written warranty is intended as a complete and exclusive statement of the terms thereof. Prior dealings or trade usage shall not be relevant to modify, explain or vary this warranty. Acceptance of, or acquiescing in, a course of performance under this warranty shall not modify the meaning of this agreement even though either party has knowledge of the performance and a chance to object.



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WYBRON, INC. - TEL 719-548-9774 - FAX 719-548-0432

Email: info@wybron.com - Visit us on the World Wide Web at <http://www.wybron.com>