



Media Highlighter

HTW1000

RGB Wireless Controller

CYRON, Inc.

USER MANUAL

Saving the planet, *One bulb at a time!*



LIGHTING REVOLUTIONIZED



LIGHTING REVOLUTIONIZED

9439 IRONDALE AVE., CHATSWORTH, CALIFORNIA 91311 USA
www.cyron.com

Media Highlighter® IR Controller HTW1000

Thank you for purchasing CYRON HTW1000 Media Highlighter IR controller. Please follow all the steps to assure proper installation and optimum usage of this device. It is a good idea to read through the instructions once before you start your project.

Contents _____

Please locate all system components. If any of the components are missing or damaged contact CYRON before proceeding with installation.

- 1 X Controller
- 1 X Remote control
- 1 X IR receiver
- 1 X Audio cord
- 4 X Mounting screws



Remote



Controller



Audio
Cord



IR
Receiver

Possibilities _____

CYRON HTW1000 is compatible with all Media Highlighter lights. System is provided with 12 plugs for easy connections to Media Highlighter Lightbars. For the ultimate expandability, the system is also equipped with internal terminal blocks that allow hardwiring the system without the use of connectors. By hardwiring, the system will be able to handle much larger projects of up to 100 watts of light output. For example, this would roughly equal to forty 15" lightbars that can be connected to one HTW1000 controller! See Table One for details.






Hardwiring needs ample knowledge of wiring practices and should be done by experienced professionals such as electricians or

certified custom electronic installers. Please contact CYRON Technical Support for further details.

Installations _____

CONTROLLER should preferably be installed out of sight, while planning for the IR receiver to be installed in line of sight. REMOTE needs to be pointed at the IR receiver for operation. Cautions and Common practices:

-  Keep the controller and wires away from extreme heat, liquids, and moving objects.
-  Low voltage wires can be routed through walls and cabinets as long as proper care is taken to avoid damages.
-  DO NOT modify internal components. Tampering with components and wiring will void factory warranty.

The CONTROLLER operates on 100% regulated 12VDC power. The size (wattage) of the power supply depends on the number of lights. Refer to Table One for calculating the power supply ratings:

<i>CYRON Series/Size</i>	<i>Watts per one lightbar</i>	<i>Model no. available (Qty)</i>	<i>LEDs per bar / Type of LED</i>
HT (Standard) / 9"	1.44	HTB9 (2x9")	18 / Superbright 60°
HT (Standard) / 15"	2.40	HTB15 (2x15") HTB15-B10 (10x15") HTB15-5B10 (10x15") 5ft cords	30 / Superbright 60°
HTP (Pro) / 9"	1.20	HTPB9 (2x9") <limited qty>	15 / Ultrabright SMD 120°
HTP (Pro) / 15"	2.16	HTPB15 (2x15")	27 / Ultrabright SMD 120°
HTP (Pro) / 24"	3.60	HTPB24 (2x24")	45 / Ultrabright SMD 120°
HTPR / 12"	2.20	HTPR-F	9 / Tri-chip SMD 120°
HTPR / 16.5feet	36.00	HTPB-RL	150 / Tri-chip SMD 120°

_____ **Table One** _____



Do not mix different types of CYRON lightbars in one area as this will cause inconsistent colors. Color convergence of “HT” products is different than HTP series.

There are two methods of connecting lights to the controller:

1. PLUG-n-PLAY lightbar connection

Connect the lightbars to controller plugs. Pay attention to the polarity of the plugs. Do not use excessive force. The order in which they get connected does not matter. You can plug as few as one or as many as twelve. Use zip ties or other means to secure the wires together. This will prevent the lightbar plugs from accidentally disconnecting. CYRON supplies hub extender (part# HTH61) which provides 5 more outlets for a total of 17 lightbars.

2. HARDWIRING Connecting more than 12 CYRON lightbars

You may choose this option if you are connecting more than 12 lightbars (17 with hub extender) or if lightbar cords are too short for your project.



Hardwiring needs ample knowledge of wiring practices. This option should be done by experienced professionals such as electricians or certified custom electronic installers. Please contact CYRON Technical Support for further details. There may be other options available for your project. CYRON experienced Tech Support staff will be happy to help you implement your project.

The hardwiring diagram can be requested by sending email to techsupport@cyron.com.

Operations _____

The HTW1000 remote allows the ultimate control of the full color spectrum. It has many features which may take some time to get familiar with.



Power, Turn on



Power, Turn off



Pre-programmed Light show: Sequentially turns on/off seven preset colors (colors cannot be changed).



Pre-programmed Light show: Color Transition. Gradually changes color of light thru a preset color sequence.



Pre-programmed Light show: aka Breath mode. Sequentially fades in and fades out seven preset colors (colors cannot be changed).



Slow speed (60 seconds)



Medium speed (5 seconds)



Fast speed (1 second)



Dimming buttons do not operate in Light Shows



Stops the light show on the color displayed at that instance.



Turn-off timer. There are 5 timers of 1, 2, 3, 4 and 5 hours. Each time the button is pressed the lights will flash according to the number of hours.

- >First press; lights flash once; system turns off in 1 hour.
- >Second press; lights flash twice; system turns off in 2 hours.
- >Third press; lights flash three times; system turns off in 3 hours. Same method applies for up to 5 hours.



Red, Green and Blue COLOR DIALS allow adjustment of each color from zero brightness to full brightness in 50 steps. The UP arrows increase and down arrows decrease the brightness level of each particular color. By combining different levels of each color there are more than 117,000 color combinations possible. Use COLOR DIALS to match décor colors, create various tones of white light, reduce the brightness of colors or memorize custom colors of your own in the MEMORY buttons.



COLOR DIALS only operate on memorized colors and PAUSED colors.



You cannot press-and-hold to rapidly change thru the 50 steps. Buttons must be pressed once for each step.



SOUND MODE. The lights will interact with sound. Keep in mind the microphone is placed inside the controller and therefore picking up the ambient sound of where the controller unit is placed. Alternatively, you may plug the line out of your audio system in to the MIC input of HTW1000 controller. A generic cord has been provided. Depending on your audio system you may need a different type cable.



DO NOT connect audio input of controller to speaker outputs. Controller will be damaged.




Cool-White light preset.



Other tones of white can be achieved by COLOR DIALS. In general, lowering the green and blue will generate “warmer” tones of white.



Memory buttons 1 thru 7 can be used to memorize colors to be recalled at any time. To memorize a color press the  button and then press the desired memory button 1 thru 7.



Dimming buttons allow you to dim any “memorized” or “paused” light in 4 steps of 100%, 75%, 50% and 25%.



Dimming does not work for any light shows.



Dimming works best for memory buttons 1-7.



Dimming levels lower than 25% can be achieved by first memorizing a color at 25% level. Then recalling the color and dimming it again will result in lower levels. Repeating this process can result in much lower levels.

General Guidance _____

How to make a specific color:

It is best to start from a solid color that is close to the color you are trying to get. For example, if you are trying to produce a specific shade of sea green, it is best to start with solid green. If solid green is not one of the colors in memory, one way would be to first press WHITE button. Then, using COLOR DIALS press blue arrow up until blue LEDs turn off. Press red arrow up until the red goes off. You should be left with solid green. Now you can add blue color by pressing arrow up to make the specific sea green you would like.

How to produce a color when watching a color show:

While watching any of the color shows you can press PAUSE button to freeze the show on the color being displayed. A quick way to get to some of the solid colors maybe to PAUSE the lights in the STEP mode.

Different tones of white light:

White light is presence of all primary colors. Otherwise, red green and blue mixed together will make white light. However, what most traditional lights produce is far from a “white” light. Depending on the type of light, it could have a yellowish tone, bluish tone, or green tone. Most people think of white light as yellowish white aka “warm white”. A color similar to “warm white”, along with many other shades of white, can be produced with CYRON HTW1000 controller. The WHITE button produces a 100% red/green/blue combination. Depending on the type of CYRON lights you use, this may produce a shade of white that needs further adjustment. Generally, reducing green and blue using COLOR DIALS will produce a warmer shade of white, while reducing red will create a colder white. Play around with COLOR DIALS and keep an open mind in what you may have known as “white”.

Technical Support _____

CYRON's primary goal is 100% customer satisfaction. You may call our technical support line or contact us via email 24/7.

techsupport@cyron.com

888-297-6660 x106

In order to continually improve our products we welcome all comments about the product you purchased.

Thank You!

Warranty _____

Cyron warrants this product against any defects in materials or workmanship for a period of ONE (1) year from the date of purchase. The warranty covers normal usage as intended by the factory and does not cover misuse, abuse, accidents, or damages caused due to the acts of God. Proof of purchase is required.

ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS LIMITED WARRANTY, OTHERWISE THE REPAIR, REPLACEMENT, OR REFUND AS PROVIDED UNDER THIS EXPRESS LIMITED WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER, AND IS PROVIDED IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OF IMPLIED. IN NO EVENT SHALL CYRON, INC. BE LIABLE, WHETHER IN CONTRACT OR TORT (INCLUDING NEGLIGENCE) FOR DAMAGES IN EXCESS OF THE PURCHASE PRICE OF THE PRODUCT, ACCESSORY OR FOR ANY INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, OR LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, OR OTHER FINANCIAL LOSS ARISING OUT OF OR IN CONNECTION WITH THE ABILITY OR INABILITY TO USE THE PRODUCTS OR ACCESSORIES TO THE FULL EXTENT THESE DAMAGES MAY BE DISCLAIMED BY LAW.

Some states and jurisdictions do not allow the limitation or exclusion of incidental or consequential damages, or limitation on the length of an implied warranty, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state or from one jurisdiction to another.

Please mail all warranty claims to:

CYRON, Inc.

HT Warranty Claim

9439 Irontdale Ave.

Chatsworth, CA 91311 USA

Further warranty inquiries:

warranty@cyron.com

