



Hyper 543RGBW User Manual

Specifications

1. Construction: Heavy Duty Cast Aluminum
2. LED: 54 Total (14 Red, 14 Green, 14 Blue, 12 White)
3. LED Power: 3 Watt (x 54 pcs)
4. LED Current: 700 mA (x 54 pcs)
5. LED Beam Angle: 30°
6. LED Lifetime: 80,000-100,000 hours
7. Possible Color Combinations: 16.7 million
8. Dimming: 0-100% with regulated constant color control
9. Strobing: 10 Flashes per second
10. Multiple units can be daisy chained in Master/Slave configuration
11. Power Consumption: 170 Watts
12. Brightness (1 meter): 30,000 Lux at 1 meter
13. Operation Modes: DMX512, Manual, Sound, Internal Program, Demo
14. DMX Control: 8 Channels or 4 Channels
15. Control Panel: Digital 4 Character Alphanumeric
16. Includes 2-Part Yoke for Floor Operation without a Stand
17. Electronic Regulated Power Supply
18. Required Power: AC 120V, 50Hz/60Hz
19. Maximum Ambient Temperature: 40° C (104° F)
20. Package Size: 25.5 x 25.5 x 36.5cm
21. Package Weight: 5.2 kg (11.5 lbs)
22. Fixture Weight: 4.4 kg (9.6 lbs)

Warnings! Violation may void your warranty.

- 1. Avoid direct eye exposure to light output.**
2. Do not operate this unit in a wet or humid environment.
3. Do not operate this unit in an environment warmer than 40° C (104° F).
4. Please maintain a distance of at least 1.0 meters between the fixture and any flammable material.
5. Please connect only to the specified live voltage.
6. Do not conned unit to a dimmer.
7. When mounting unit, use appropriate hardware and include a safety cable.



Modes of Operation

There are seven modes of operation, each of which may be accessed by pressing the 'Menu' button on the back of the unit. Each press of the 'Menu' button advances to the next mode. **Important: You must press 'Enter' after making the selection in order for the unit to remember the change at next power up.** The modes are:

Display (min to max value)		Function
d001	d512	4 Channel Mode (1= Red, 2 = Green, 3 = Blue, 4 = White) Use d001 setting for slave units.
A001	A512	8 Channel Mode (See DMX Channel Listing)
Fd01	Fd99	Color Cycle by Fading (slow to fast; press 'Enter' to confirm)
Sn01	Sn99	Color Cycle by Snapping (slow to fast; press 'Enter' to confirm)
Co01	Co99	Preset Colors (1=white, 2=red, 3=green, 4=blue, etc.)
dEoo	dEoo	Demo Mode: Unit cycles through various effects.
SoUd	SoUd	Sound Mode: Colors change to sound

DMX Channel Listing

Channel	Description	Value	Description
1	Master Dimmer	0	Off
		1-255	Increasing Brightness
2	Red	0	Off
		1-255	Increasing Brightness
3	Green	0	Off
		1-255	Increasing Brightness
4	Blue	0	Off
		1-255	Increasing Brightness
5	White	0	Off
		1-255	Increasing Brightness
6	Strobe	0	Strobe Not Active (Constant Light)
		1-255	Strobing with Increasing Speed
7	Adjustment	0-255	Adjusts Channel 8 Features Below
8	Special Effects This channel has 6 settings, the middle 4 of which are adjusted by Chanel 7.	0-49	Channel Not Active
		50-100	Preset Colors (Adjust Color with Ch. 7)
		101-150	Slow Color Fade (Adjust Speed with Ch. 7)
		151-200	Quick Color Fade (Adjust Speed with Ch. 7)
		201-250	Color Cycles by Snapping (Adjust Speed with Ch. 7)
251-255	Sound Active Mode: Color Changes to Sound		

Setting Up DMX Connection with an External Controller:

1. Connect the Hyper unit to a DMX Controller (not included) using a microphone or data cable with XLR connectors. Multiple Hyper units may be connected by daisy-chaining them together. (Note that XLR input and output jacks are wired in parallel so that either may be used as input or output.)
2. Set the DMX Start Channel on the Hyper unit so that it is the same as the DMX Start Channel on the lighting controller. (The display on the Hyper should read 'AXXX' where 'XXX' is a number that is the same as the assigned channel on your controller. Most controllers start at channel 1 and a Hyper assigned at that location would read 'A001'.)
 1. First press the 'Menu' button until the first digit reads 'A'.
 2. Press 'Up' or 'Down' until the desired number is reached.
 3. Press 'Enter' to confirm your choice.
3. Adjust the DMX channels on the controller to manipulate the light as desired.

Typical DMX Operation:

1. Follow the above directions "Setting Up DMX Connection with an External Controller."
2. On your controller, set Channel 1 (master dimmer) to maximum value (255).
3. Set Channels 6, 7, & 8 to minimum value (0).
4. Adjust Channels 2, 3, 4, & 5 so that the desired color is achieved.
5. If strobing is desired, set Channel 6 to appropriate level.
6. Set Channel 1 so that the desired overall brightness is achieved.



Operation without an External Controller

Note: Not pressing 'Enter' after final selection will cause the unit to not remember the new setting at the next power up.

Automatic Color Change by Fading (Fd)

1. First press the 'Menu' button until the first two digits read 'Fd'.
2. Press 'Up' or 'Down' until the desired speed is reached. (Fd01 is the slowest and Fd99 is the fastest)
3. Press 'Enter' to confirm you choice. (Unit will not alter speed until 'Enter' is pressed.)

Automatic Color Change by Snapping (Sn)

1. First press the 'Menu' button until the first two digits read 'Sn'.
2. Press 'Up' or 'Down' until the desired speed is reached. (Sn01 is the slowest and Sn99 is the fastest)
3. Press 'Enter' to confirm you choice. (Unit will not alter speed until 'Enter' is pressed.)

Preset Colors (Co)

1. First press the 'Menu' button until the first two digits read 'Co'.
2. Press 'Up' or 'Down' until the desired color is reached.
3. Press 'Enter' to confirm you choice. (Unit will not change color until 'Enter' is pressed.)

Demo Mode (dEoo)

1. First press the 'Menu' button until the display reads 'dEoo'.
2. Press 'Enter' to confirm you choice.

Sound Mode (Color cycles in response to noises) (SoUd)

3. First press the 'Menu' button until the display reads 'SoUd'.
4. Press 'Enter' to confirm you choice.

Utilizing Master/Slave Mode

1. Connect all units together using 3-pin microphone/data cable.
2. One unit will be the 'Master' and the rest will be 'Slaves.' Any adjustments made to the the 'Master' unit will be instantly replicated in each of the 'Slaves.'
3. Set the 'Master' unit to desired color output, choosing from the 'Fd', 'Sn', 'Co', 'dEoo', or 'SoUd' settings described in the Modes of Operation section of this manual.
4. Set all other units (slaves) to 'd001' (not A001).
5. All units will not have the same output as the master unit.
6. See following sections for operation of the master unit.

