Декодер JH-DMX-388A (12/24V, 360/720W)

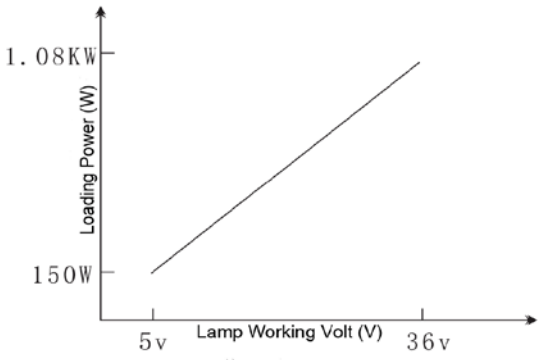
Brief introduction of products:

JD-DMX-388A is a high power RGB controller system with 3 channel. Common anode design specially. JD-DMX-388A is made of Communication control module, Instruction processing module operation, LCD display module and Overload protection module. High efficient DCDC power supply system make the controller work more stable and reliable. With 256 level grey, can make more realistic color display. Designed with DMX Communication Protocol, can fit with DMX512-1990 and DMX512A. With XLR and RJ45 connector for easy connection.

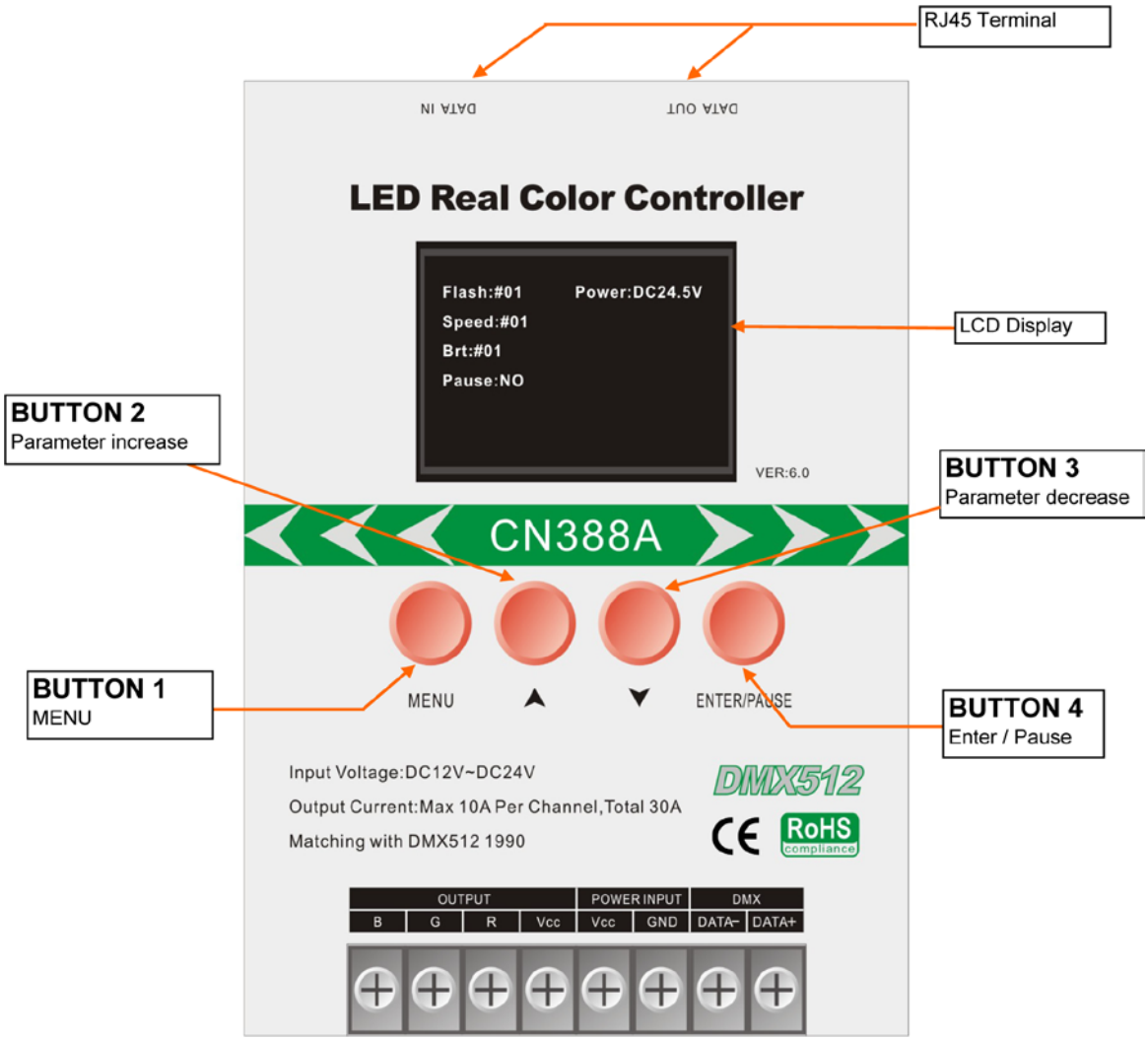
Features:

- It can be driven by DMX512 1990 or DMX512A console, manual code editor with 10-bit binary address code
- Can be connected with suitable amplifier to expand the extension.
- Controller power consumption ≤5W,
- Controller temperature rise itself: <60 degree.
- Overload response time: <10s
- Communication Protocol : DMX512-1990 and DMX512A.
- 256 level grey, can show 256x256x256 kinds of color.
- Parameter setting: Mode / Speed / Brightness / DMX address / DIY program
- Parameter memory : Mode / Speed / Brightness / DMX address / DIY program
- LCD Display : LCD12864 Chinese and English interface
- Operating parameter display: Mode / Speed / Brightness / Pause / Volt / Channel Current / Loading rate
- Input and Output connector: Standard XLR and RJ45 connector
- Input Volt: DC5V~DC36V.
- Output: 10A/channel, total 3 channel.
- Common anode design.
- Build in 21 kinds of changing mode.
- Standard speed set up: 1-10 level (or DIY)
- Standard brightness set up: 1-10 level (or DIY)
- DMX address set up: 1-512 address for setting.
- Work Frequency: 32MHz
- IP20 for indoor use only. Size: L142mm x W90mm x H23mm
- Working temperature: -20°C~45°C

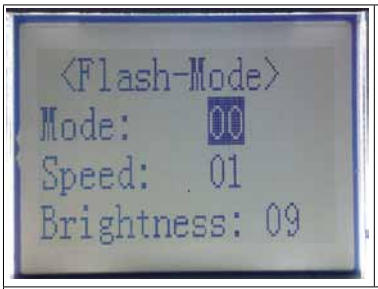
Parameter Description:



Function Description:



Flash Mode Setup:



Opterating Instructions:

1. When the controller power on, press **MENU**, when you get *<Flash-Mode>*, it is the normal RGB color change mode. We build in 29 kind of color change mode for your option. Mode 00-28, they are changing mode build in. There are also additional 7 empty mode for your DIY mode to saved. The 28 kind of color change mode is as below showed.
2. When press **MENU**, you can change MODE, SPEED, BRIGHT. The DIY mode can not change the SPEED and BRIGHT.
3. When you press **BUTTON 2** and **BUTTON 3**, you can change the seting.

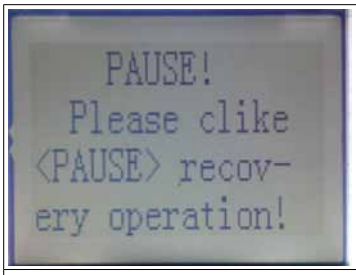
00) Automatic change mode from 01-27 **01)**Red **02)**Green **03)**Blue **04)**Yellow **05)**Cyan **06)**Purple **07)**White **08)**Red dimmer and brighter **09)**Green dimmer and brighter **10)**Blue dimmer and brighter **11)**Yellow dimmer and brighter **12)**Cyan dimmer and brighter **13)**Purple dimmer and brighter **14)**White dimmer and brighter **15)**Red-Green gradually change **16)**Green-Blue gradually change **17)**Red-Blue gradually change **18)**Red-Blue-Green gradually change **19)**Red flash **20)**Green flash **21)**Blue flash **22)**Yellow flash **23)**Cyan flash **24)**Purple flash **25)**White flash **26)**Red-Green-Blue flash **27)**Seven color flash. From 2**8-34** mode is DIY saved mode.

DMX512 ID Code Setup:

Opterating Instructions:

1. When the controller power on, press **MENU**, when you get *<DMX512-Mode>* as left picture, the controller works as a DMX controller.
2. When press **BUTTON 2** and **BUTTON 3**, you can setup the DMX address. This JH-DMX-388A is RGB 3 channel controller, only need to set up the first address, then the second and third will be setup automatically.
3. When you get the address that you need, then setup finish, the address will be saved automatically.
4. When power off and power on again, the address will be remember.

DIY Setup:

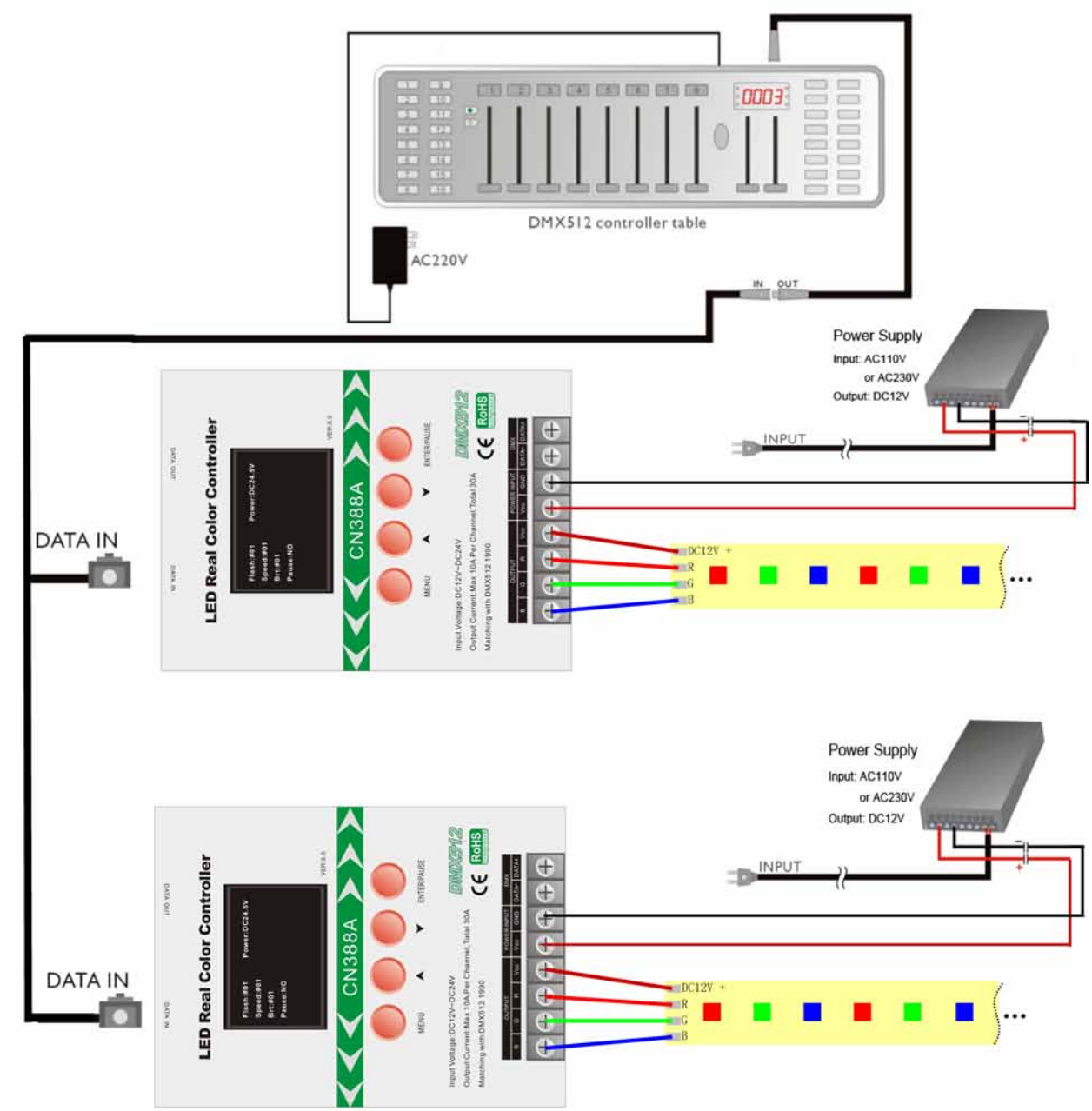
 **Mode change PAUSE**	 **DIY Mode**

Opterating Instructions:

1. When you press **PAUSE/ENTER** to pause the change mode at <*Flash-Mode*> or <*DMX512-Mode*>, and press **PAUSE/ENTER** again, you will enter <*DIY Mode*> as showed right above picture.
2. Press **MENU**, you can enter Red or Green or Blue channel, and then press **BUTTON 2** or **BUTTON 3** to increase or decrease the color level.
3. When finished the seting, press **PAUSE/ENTER** to save this color into the change MODE. Then this color will be save as CHANGE MODE 28-34th. You can find this color in <*Flash-Mode*>, the 28-34th changing mode are the ones that you saved color. When you made more than 7 kinds of DIY mode, the old saved color mode will be replaced by new DIY mode.
4. The color can be remeber after power off and power on.

Connection Diagram:

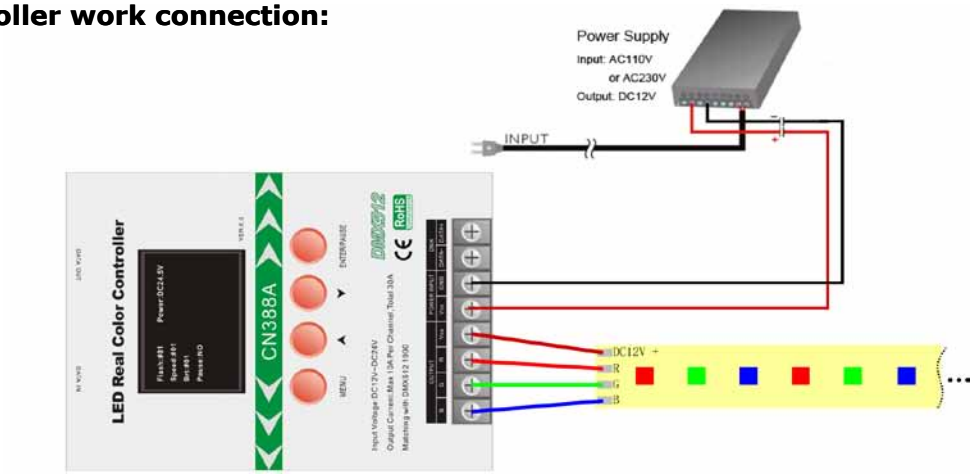
(1) With DMX Control Desk:



DMX Function work instruction:

1. Please connect the output single cable of DMX control table to the JH-DMX-388A, please use offered cable that with this controller. If you need to use others, please note the cable sequence.
2. If you need to connected more JH-DMX-388A, please note the DATA IN and DATA OUT must connected as above picture.
3. Each JH-DMX-388A can be powered by each power supply, or several pcs JH-DMX-388A can powered by 1pc power supply, it is up to the loading wattage, please do not overload for power supply and also no overload for controller.
4. Normally, to address the JH-DMX-388A, the first controller address is 01, the second controller is 04, the third is 07 and so on. This address design according to your projects needs.
5. When you connecte 1pc power supply to more than 2pcs controller, please make sure the Anode and Cathode connected well, if not, the singnal DMX cable will be broken.
6. If you need all the lamps and controllers changed in same way, please setup the same address for this contorllers.

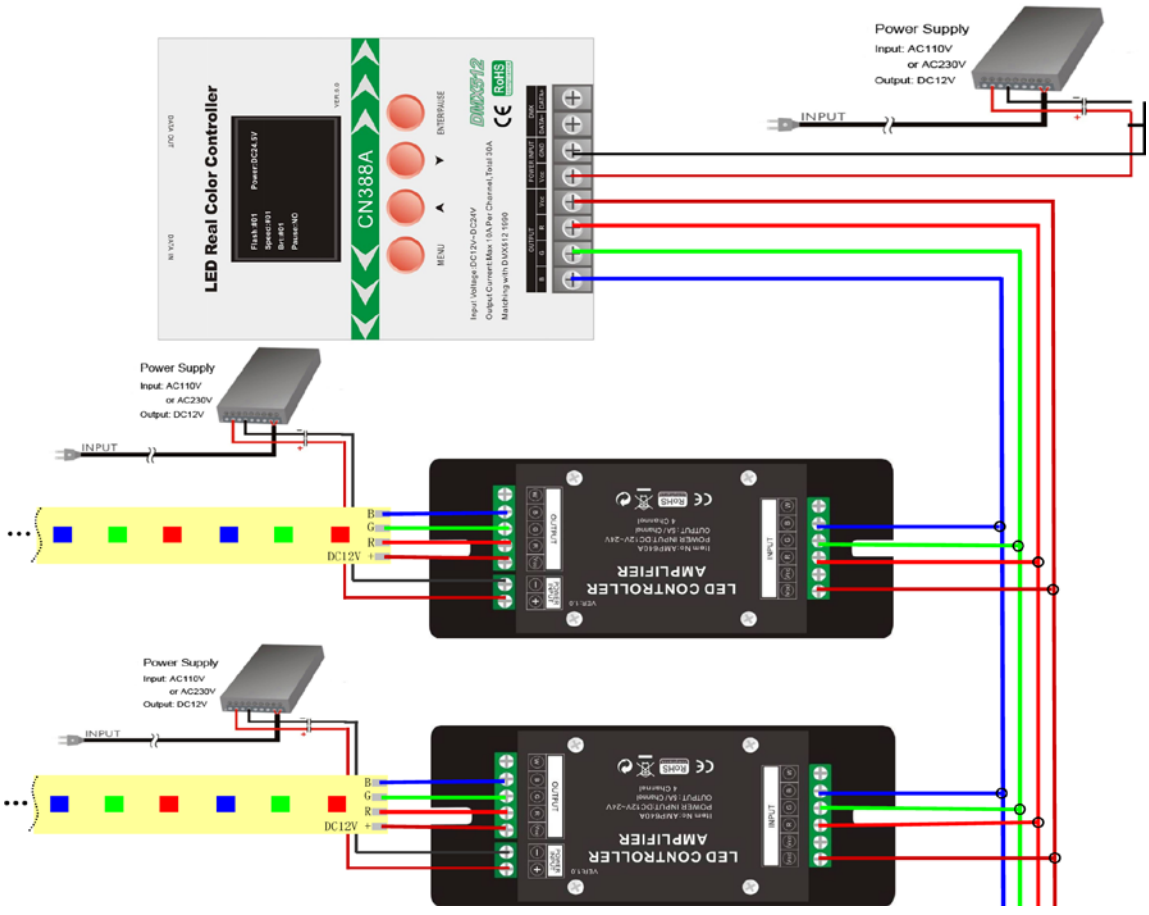
(2) Single controller work connection:



Single controller work instruction:

1. Single controller work connection, please see above.
2. Please pay attention to the loading, no over-load.

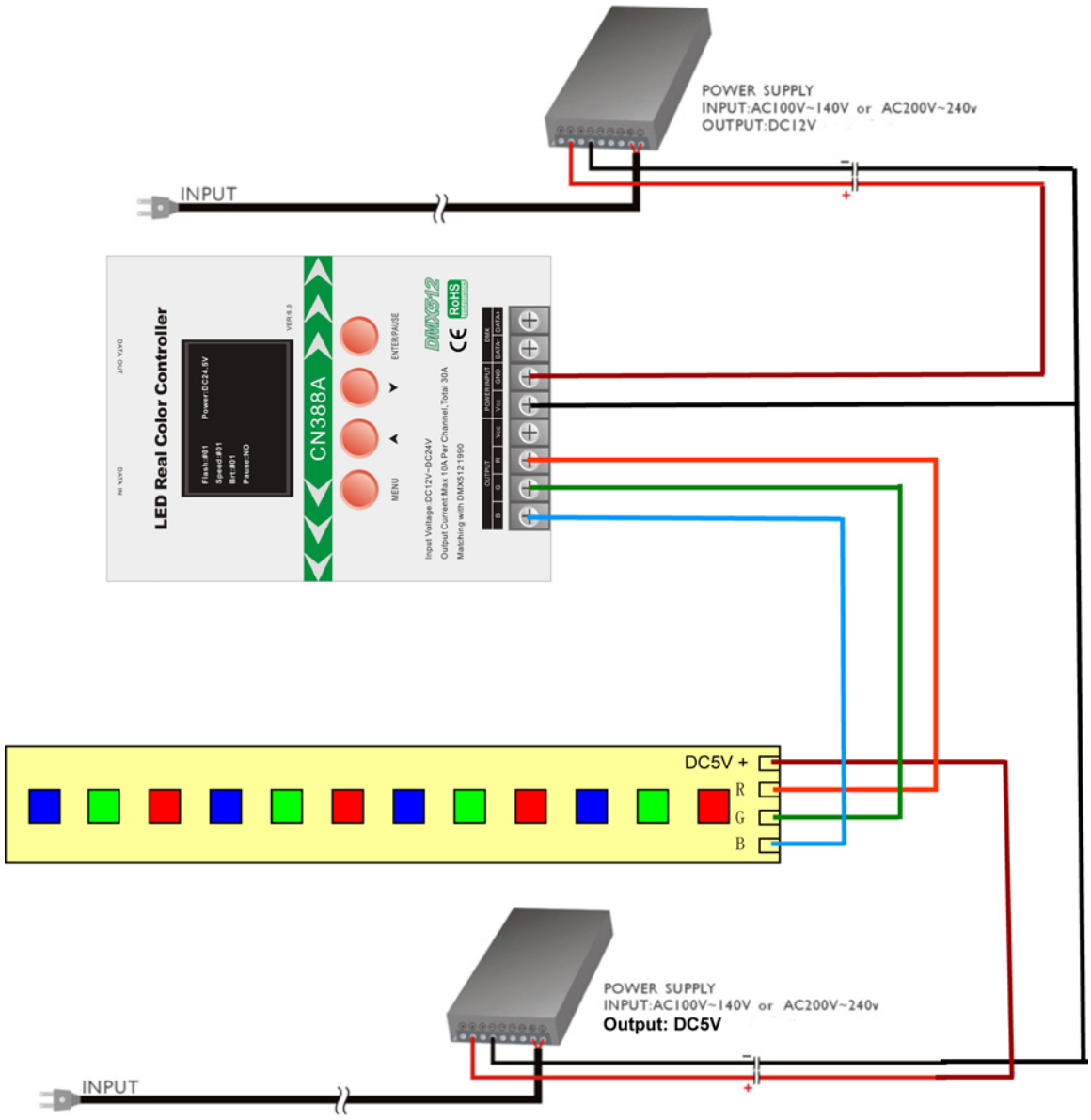
(3) Controller with amplifier connection:



Controller with amplifier instruction:

1. The controller with amplifier set up same as single controller.
2. The parallel connection is better than connection in series. When you need more amplifier connect in series, please use parallel connection and connection in series together, to avoid the signal distortion or delay.
3. Advise to power the amplifier by seperate power supply.
4. The connetion cable between controller and amplifier or cable between amplifiers, must be >0.75mm^2 multi-strand cable. If the cable are too thin, the singal will be interfered.

(4) Connection for beyond the control input voltage:



Controller work for beyond input voltage:

1. This connection must be as picture show, and this way only for single controller.
2. When the loading input volt higher than 24V or lower than 12V, you can connected like this way.
3. The loading lamp input volt can not be higher than 36V.

Simple Troubleshooting Guide:

	Problem	Check place
1	LCD display can not work	1. Check the power cable connection is right or reversed. 2. Check the Input volt is right or not? (The right volt is DC12~24V)
2	LCD display can work, but the loading lamp do not work, or some of color do not work.	1. Check if the brightness have been set up to "0". 2. The lamp input cable and controller connection is right or reversed. 3. The Input voltage is right or not
3	The master controller work well, but the slave controller no signal output or flash.	1. Check the output cable connection is right or not.
4	The controller works, but very hot.	1. Check the loading is right or over-load. 2. Check if some place in the lamp is sort circuit.

Application:

ATTENTION:

- *Indoor Use ONLY, Protect it against dripping water and splash water, high air humidity and heat (admissible ambient temperature range 0-40°C.)*
- *For cleaning only use a dry, soft cloth; never use chemicals or water.*
- *No guarantee claims for the unit and no liability for any resulting personal damage or material damage will be accepted if the unit is used for other purposes than originally intended, if it is not correctly connected or operated, if it is over-loaded or not repaired in an expert way.*
- *When over-load, the controller will stop working, then please reduce the loading into the right way, then the controller can start again.*

WARNING:

- *Please check before installation that the LED light input voltage fits to the voltage showed on the lamp and controllers.*
- *Please do not overload.*
- *Make sure the power off when you install the controller.*
- *Do not store this product in places with high temperature or high humidity.*
- *Controller does not lightning, please use it with Lightning Protection Devices*