LED Digital Controller
User's Manual

(Please read entire user manual before use.)

1、Brief Introduction

This DMX digital controller with LCD screen has 33 preset modes including "static color", "jumping color", "color smooth", "color flow", "color chasing", etc...
Change modes with the touch of a button. Running times, changing speeds can be configured and saved separately and automatically. Use to control LED digital tube, LED cluster, LED wall washer, flexible LED strip, etc...

2、Specifications

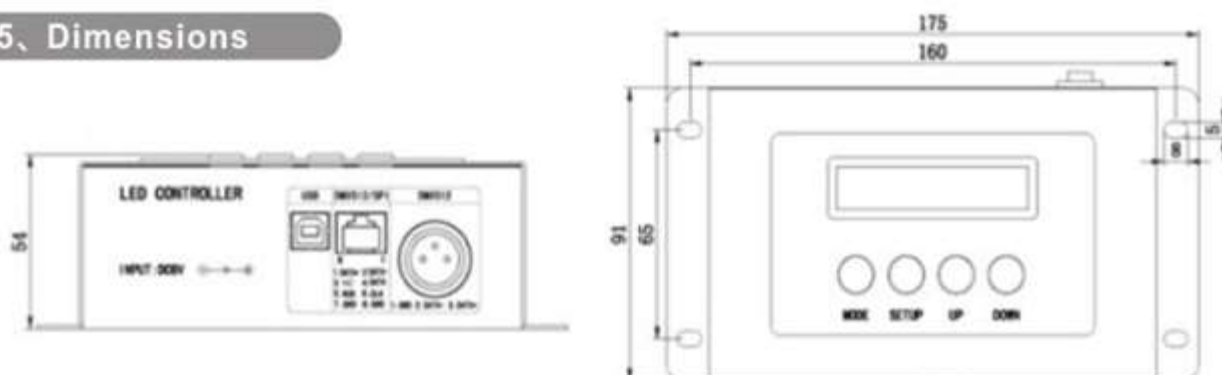| Model	SPI	6803	8806	DMX512
Input Voltage	DC9V-12V	DC9V-12V	DC9V-DC12V	DC9V-12V
Output signal	SPI(TTL)	LPD6803	LPD8806	DMX512/1990
Control ICs	74HC595, MB5026, DM134, DM135, Zq9712	LPD6803, LPD1101, D705, UCS6909, UCS6912	LPD8803 LPD8806 LPD8809 LPD8812	N/C
Control Mode	33 modes	33 modes	33 modes	33 modes
Control Qty	3200	3200	3200	170
Dimension	L175xW90xH52(mm)			
Weight (G.W)	500g			

3、Basic Features

1. Adopted LCD screen, easy to operate.
2. 33 color changing modes, each mode's parameter can be configured separately.
3. Auto running mode and fixed mode available, running times can be configuredseparately.
4. Auto store the parameter with power off protection.
5. LOAD DEFAULT available.
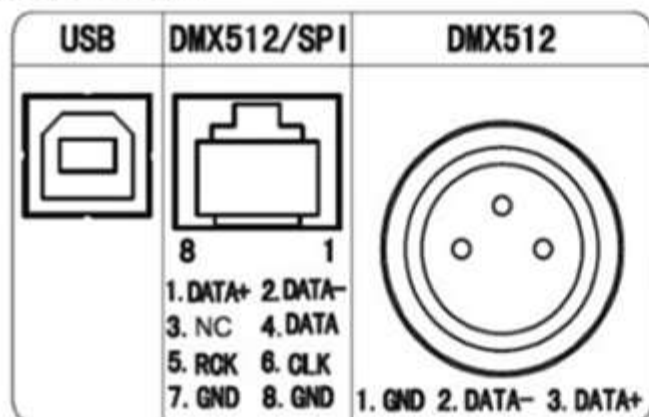6. Power loss memory function.

4、Safety warnings

1. Please don't install this controller in lightening, intense magnetic and high-voltage fields.
2. To reduce the risk of component damage and fire caused by short circuit, make sure correct connection
3. Always be sure to mount this unit in an area that will allow proper ventilation to ensure a fitting temperature.
4. Check if the voltage and power adapter suit the controller
5. Don't connect cables with power on, make sure a correct connection and no short circuit checked with instrument before power on.
6. Please don't open controller cover and operate if problems occur.
The manual is only suitable for this model; any update is subject to change without prior notice.

5、Dimensions

6、Conjunction Diagram

1. Interface diagram

Three end XLR for DMX512 to output DMX512 signal, wiring as standard XLR. First pin is GND, second pin is DATA-, and the third pin is DATA+.

RJ45 interface uses for DMX512 signal or SPI signal from TTL, 6803 signal.

the definition for each pin as follow:

No.	Name	Note
1	DATA+	DMX512 negative terminal
2	DATA-	DMX512 positive terminal
3	NC	ground
4	DATA	SPI data , 6803 data
5	RCK	SPI RCK
6	CLK	SPI CLK、6803 CLK
7	GND	Ground
8	GND	Ground

2. Conjunction instruction

Model-SPI output SPI signal, need four lines, lead from the feet of RJ45, four lines as follow:

DATA	SPI data
RCK	SPI RCK
CLK	SPI CLK
GND	GROUND

Model-6803/8806 output LPD6803/LPD8806 control signals, needs three lines, lead from the feet of RJ45, the three lines as follow:

DATA	6803/8806 data
CLK	6803/8806 CLK
GND	Ground

Model-DMX512 output DMX512 signal needs three lines, lead from either RLX or RJ45, the three lines as follow:

DATA-	DMX512 negative terminal
DATA+	DMX512 positive terminal
GND	Ground

3)Instruction

The controller has 4 functional buttons: MODE, SETUP, UP and DOWN.

SETUP:(1-8 has no adjustable function);

UP(increase)、DOWN (decrease) to switch modes or select parameter.

Pattern modes:

No.	Model	No.	Model
1	RG SMOOTH	18	COLOR CHASE1
2	RB SMOOTH	19	COLOR CHASE2
3	GB SMOOTH	20	RGB CHASE 1
4	RGB SMOOTH	21	RGB CHASE 2
5	COLOR SMOOTH1	22	RY CHASE 1
6	COLOR SMOOTH2	23	RY CHASE 2
7	RGB FRONT	24	RB CHASE 1
8	RGB BACK	25	RB CHASE 2
9	BLUE METEOR	26	BP CHASE 1
10	PURPLE METEOR	27	BP CHASE 2
11	WHITE METEOR	28	BW CHASE 1
12	RGB METEOR	29	BW CHASE 2
13	COLOR METEOR	30	RG CHASE 1
14	RGB CHANGE	31	RG CHASE 2
15	COLOR CHANGE	32	COLOR COVER1
16	COLOR SPLIT	33	COLOR COVER2
17	COLOR SCAN	34	AUTO PROGRAME

Parameter:

No.	Name	Note
1	Run Speed	Run Speed
2	Run Times	Run Times
3	Load Default	Load Default
4	Dot Num/m	Dot Number per meter
5	Dot Number	Dot Number
6	R&B Change	R&B change(SPI)

Note: in the modes 1-33, Load Default only restores parameter in current mode.
But in mode 34, it restores parameters in all modes.

7. After-Sales

From the day you purchase our products within 3 years, if being used properly in accordance with the instruction, and quality problems occur, we provide free repair or replacement services except the following cases:

1. Any defects caused by wrong operations.
2. Any damages caused by inappropriate power supply or abnormal voltage.
3. Any damages caused by unauthorized removal, maintenance, modifying circuit, incorrect connections and replacing chips.
4. Any damages due to transportation, breaking, flooded water after the purchase.
5. Any damages caused by earthquake, fire, flood, lightning strike etc force majeure of natural disasters.
6. Any damages caused by negligence, inappropriate storing at high temperature and humidity environment or near harmful chemicals.
7. Product has been updated.