

**DIGITAL CONTROLLER WITH IP20 SENSOR**

**DOGITAL LED**

Ref: 41.038

12V

Digital controller with 133 effects.

It is controlled by means of the buttons on the controller or with a small remote control.

Working tension 12V, maximum pixel load of 1024 points (in low mode) or 2048 points (in high mode).



voltage

**Controller:**



**Remote control:**



Product	Led digital controller
Working voltage	12V
Working current	< 60mA
Electric feed	By means of Jack connector or terminal with screws for cables
Maximum pixel load	1024 points (in low mode) or 2048 points (in high mode).
IC compatible models	WS2811, WS2812B, TM1809, UCS1903 y TM1812
Working temperature	-20°C / +60°C
Effect modes	133
Product dimensions	L137xW70xH25mm
Control types	by means of the buttons on the controller or with a small remote control.
Synchronous controller	yes, they can be synchronised by means of a mains cable connection and a RJ45 connector

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**Operation Manual:**

1. Configuration and functions:

**Configuration:**

Connect the charging cable at the beginning, followed by the power cord. Make sure that a short circuit cannot occur between the connecting cable before turning on the power.

Then configure the steps as follows:

Press the "On/off" button to turn off the controller before setting the menu.

Press the "up" and "down" button once at a time, and the LED will light up at this time. Then press the "Mode/ Speed" button to access the menu settings screen.

The first setup screen is for "High Speed and Low Speed Settings", and the LED will show "S-HI" or "S-LO". Then press the "up" and "down" button to select the mode. (If the IC in the light bar is the high speed mode, you must choose "S-HI" and choose "S-HI" when the speed is low). The factory default is for high-speed mode.

Continue to press the "Mode/Speed" button to enter the second screen:

"Setting checkpoints". The 4-digit LED display is for the number of control points. To increase or decrease the number press the "up" and "down" button (long press can be adjusted quickly). The factory default is 50.

After setting it up properly, press the "On/off" button to save and exit.

**Functions:**

There are 4 buttons in total on the control panel, the function of each button is as follows:

**On/Off:** you can turn the output on or off.

**Mode / Speed:** Mode setting function switch / speed setting (the first LED shows H for model adjustment, displays S for speed adjustment).

**UP:** Mode + / Speed + button. When in the mode slider function, it is for "+" mode. When in the speed slider function, it is for "Speed+".

**DOWN:** Mode/speed button. When in the mode slider function, it is for "Mode-". When in the speed slider function, it is for "Speed-".

- A. Mode setting/speed setting function switch (first LED shows H for model setting, displays S for speed adjustment).
- B. Mode + / Speed + button. When in the mode slider function, it is for "+" mode. When in the speed slider function, it is for "Speed+".
- C. Mode/speed button. When in the mode slider function, it is for "Mode-". When in the speed slider function, it is for "Speed-".
- D. On/Off button: you can open or close the output.

**Synchronous Controller System Description:**

The synchronous control system can be made of any number of controller connections. Each of the subcontrollers would follow the first master controller for permanent synchronous change. And there's no delay.

After connecting the wiring diagram, you do not need to configure the subcontroller. It will be according to the master to control the speed and the mode change. (That wouldn't be synchronous when it's turned on. You can close and open to be synchronous) When the master is working and the subcontrol works well, the green signal light of the subcontrol will flash. The digital LED shows the working mode.

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The standard color changes as follows:

1	Static red	2	Static green
3	Static blue	4	Static yellow
5	Static cyan	6	Static purple
7	Static white	8	Three color jumpy change
9	Seven color jumpy change	10	Seven color stroboflash
11	Red horse race lamp to right direction	12	Purple horse race lamp to left direction
13	Blue horse race lamp to right direction	14	Cyan horse race lamp to left direction
15	Seven color cycling horse race lamp to right direction	16	Seven color cycling horse race lamp to left direction
17	Seven color horse race lamp back-for-ward direction	18	Seven color horse race lamp to left direction
19	Seven color jumping horse race lamp to right direction	20	Three color gradually change
21	Seven color gradually change	22	Red background scan lamp back-for-ward direction
23	Green background scan lamp back-for-ward direction	24	Blue background scan lamp back-for-ward direction
25	Yellow background scan lamp back-for-ward direction	26	Cyan background scan lamp back-for-ward direction
27	Purple background scan lamp back-for-ward direction	28	White background scan lamp back-for-ward direction
29	Seven color scan lamp back-for-ward direction	30	Red water move to right direction
31	Red water move to left direction	32	Green water move to right direction
33	Green water move to left direction	34	Blue water move to right direction
35	Blue water move to left direction	36	Yellow water move to right direction
37	Yellow water move to left direction	38	Cyan water move to right direction
39	Cyan water move to left direction	40	Purple water move to right direction
41	Purple water move to left direction	42	White water move to right direction
43	White water move to left direction	44	Seven color cycling water move to right direction
45	Seven color breathing lamp back-for-ward direction	46	Red trail to left single direction
47	Purple trail to left single direction	48	Blue trail to left single direction
49	Cyan trail to left single direction	50	White trail to left single direction
51	Green trail to left single direction	52	Yellow trail to left single direction
53	Seven color jumping trail to left single direction	54	Seven color queue trail to left single direction
55	Seven color alternation trail to left single direction	56	Red trail to right single direction
57	Purple trail to right single direction	58	Blue trail to right single direction
59	Cyan trail to right single direction	60	White trail to right single direction
61	Green trail to right single direction	62	Yellow trail to right single direction
63	Seven color jumping trail to right single direction	64	Seven color queue trail to right single direction
65	Seven color alternation trail to right single direction	66	Red water trail to right direction
67	Purple water trail to right direction	68	Blue water trail to right direction
69	Cyan water trail to right direction	70	White water trail to right direction
71	Green water trail to right direction	72	Yellow water trail to right direction
73	Seven color jumping water trail to right direction	74	Seven color queue water trail to right direction
75	Seven color alternation water trail to right direction	76	Red trail to left double direction
77	Purple trail to left double direction	78	Blue trail to left double direction
79	Cyan trail to left double direction	80	White trail to left double direction
81	Green trail to left double direction	82	Yellow trail to left double direction
83	Seven color jumping trail to left double direction	84	Seven color queue trail to left double direction
85	Seven color alternation trail to left double direction	86	Red trail to right double direction
87	Purple trail to right double direction	88	Blue trail to right double direction
89	Cyan trail to right double direction	90	White trail to right double direction
91	Green trail to right double direction	92	Yellow trail to right double direction

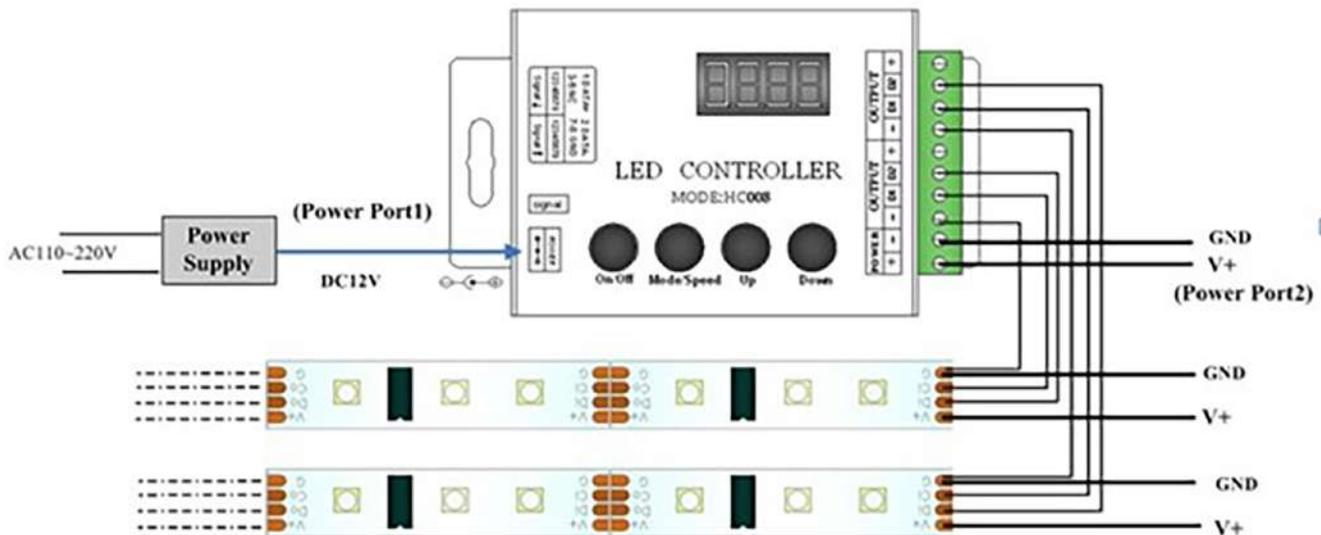
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93	Seven color jumping trail to right double direction	94	Seven color queue trail to right double direction
95	Seven color alternation trail to right double direction	96	Full color wave to right direction
97	Seven color water move to left direction	98	Purple background trail to right double direction
99	Blue background trail to right double direction	100	White background trail to right double direction
101	Cyan background trail to right double direction	102	Green background trail to right double direction
103	Yellow background trail to right double direction	104	Seven color background trail to right double direction
104	Seven color spread from the middle to both sides	106	Seven color breathing from the middle to both sides
107	Seven color draw curtain	108	Seven color lower curtain
109	Seven color spread from both sides to the middle	110	Colorful switch
111	Seven color overlay to right direction	112	Seven color overlay to left direction
113	Seven color overlay to left and right direction	114	Seven color background overlay to double direction
115	Seven color overlay from middle to both sides	116	Seven color background overlay middle to both sides
117	Seven color overlay from both sides to middle	118	Seven color background overlay both sides to middle
119	Sub seven color move back-for-ward direction	120	Sub seven color jump and move back-for-ward
121	Sub seven color background move back-for-ward	122	Sub seven color background move single direction
123	Sub seven color overlay to left and right direction	124	Sub seven color background overlay to left and right
125	Sub seven color spread to single direction	126	Sub seven color spread back-for-ward
127	Sub seven color water move to left and right	128	Sub seven color spread from middle to both sides
129	Sub seven color stretch from middle to both sides	130	Sub seven color stretch to single direction
131	Sub seven color overlay to single direction	132	Auto play circularly
135	Custom combination mode		

**Connected:**

This scheme is for a single controller only.

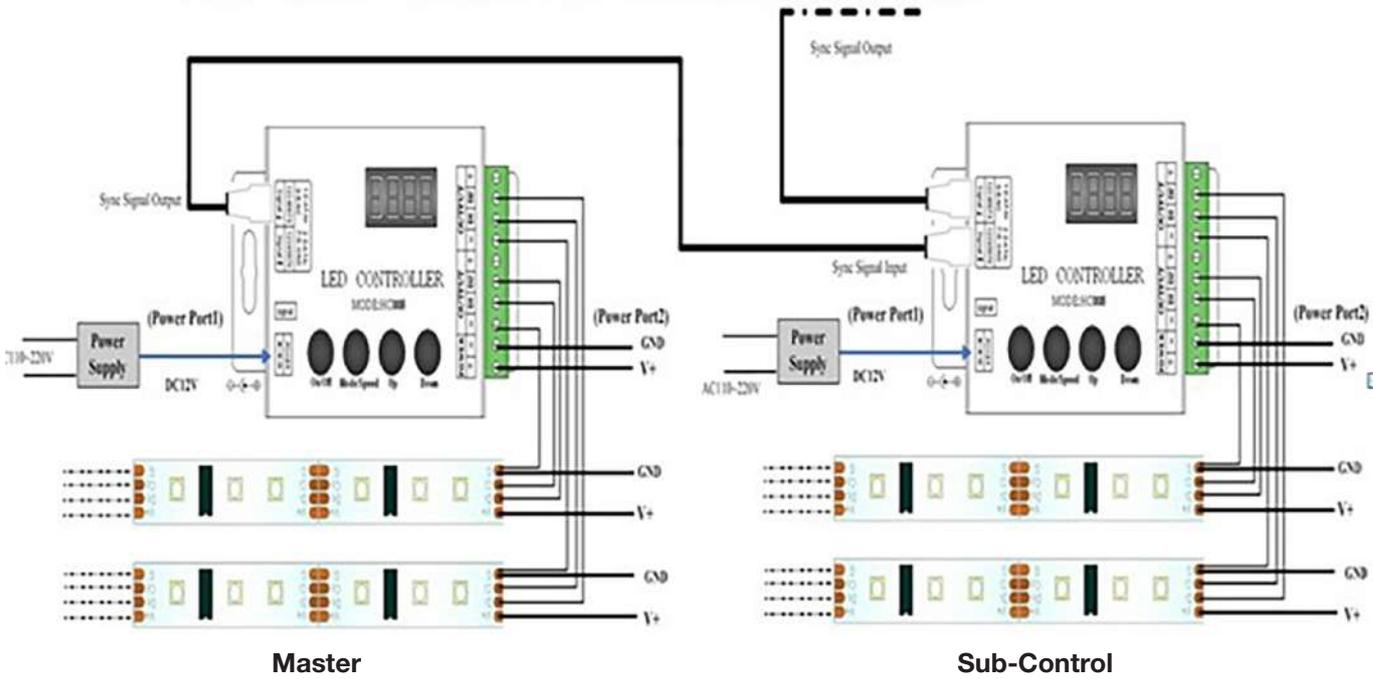


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The following two diagrams are for connecting them in synchronous mode (operate simultaneously).

- Standard and easy way. Connect them with an RJ45 cable using the Input and Output terminals.



- In cascade, the first controller will have the connection in Output (MASTER) and the rest of the controllers will have the input, which means that many leads must be made from an RJ45 socket, in this way we save cables but we have to make more splices.

