#### 18Key IR Dream Color LED Controller

### **Product Description**

This controller is suit for UCS1903 (WS2811 etc) output applications which drive LED directly. It is widely used in advertising, stage sets, home decorations, etc. It has many advantages such as easy connection and simplicity to use. It has memory function. And adopt IR remote control, could adjust brightness, static color choices and various dynamic changes in lighting effects. There are 153 modes in total.



### **Technical Parameters**

Working temperature: −20-60°C	Static consumption: <1W	
Input voltage: DC12V	Output voltage: DC12V	
External dimension: L63*W35*H22 mm	Packing size: L60*W40*H90 mm	
Net weight: 40g	Gross weight: 56g	
Effects model: 153	Control IC Number: 1024 in max(high speed)	
Output signal: SPI	Memory function	
Controlled IC Model: UCS1903, WS2811, TM1804, TM1809, TM1812 etc. (orders specify)		

#### The function of each button as below

ON		OFF
Mode+	Speed+	Brightness+
Mode-	Speed-	Brightness-
Red modes group	Green modes group	Blue modes group
Yellow modes group	Cyan modes group	Purple modes group
	White modes group	
Auto	Pause	Colored modes group



### **Direction for using**

- 1. Before installing this product, Please read this manual carefully. Ensure full understanding of this specification to avoid unnecessary damage and additional costs
- 2. Connect the load wire at first, following by the power wire; Please ensure short circuit can not occur between connecting wire before turn on the power.
- 3. IR remote operate by sending a signal from the remote control to the IR receiver via line-of-sight, and IR signals can't travel through obstructions, so IR remote control needs to be about to "see" the IR receiver and make sure there is no obstructions between them.
- 4、 IC number Set: (You don not need to do this when first out the box. IC Number:19-1024)
  Power on the controller. Press "OFF" (LED Strip OFF) → press "RESET" (Bright white) → press "Brightness+" or "Brightness-" adjust the IC number → IC number is right → press "ON"
- 5、RGB color match: (You don not need to do this when first out the box) I .Power on the controller

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II .Press "OFF" (LED Strip OFF) \rightarrow press "RESET" (Bright white) \rightarrow press "Speed +" or "Speed -"\rightarrow press "ON" \rightarrow press "R" and "G" and "B"
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The color is right, the operation is complete. The color is not right, repeat the above steps "II "

Mode	table	as	below
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	Red modes group (Press "R" → press "Mode +"or "Mode -")			
NO.	Mode description	NO.	Mode description	
1	Static red	2	Red horse race lamp to left direction	
3	Red horse race lamp to right direction	4	Red background scan lamp back-for-ward direction	
5	Red water move to right direction	6	Red water move to left direction	
7	Red trail to left single direction	8	Red trail to right single direction	
9	Red water trail to right direction	10	Red trail to left double direction	
11	Red trail to right double direction	12	Red draw curtain	
13	Red overlay to right direction	14	Red overlay to left direction	
15	Red stroboflash	16	Sub red overlay to single direction	
17	Red overlay from middle to both sides			
	Green modes group (Press "G	" → pre	ss "Mode +"or "Mode -")	
NO.	Mode description	NO.	Mode description	
1	Static green	2	Green horse race lamp to left direction	
3	Green horse race lamp to right direction	4	Green background scan lamp back-for-ward	
5	Green water move to right direction	6	Green water move to left direction	
7	Green trail to left single direction	8	Green trail to right single direction	
9	Green water trail to right direction	10	Green trail to left double direction	
11	Green trail to right double direction	12	Green draw curtain	
13	Green overlay to right direction	14	Green overlay to left direction	
15	Green stroboflash	16	Sub green overlay to single direction	
17	Green overlay from middle to both sides	-		
	Blue modes group (Press "B"	_	s "Mode +"or "Mode -")	
NO.	Mode description	NO.	Mode description	
1	Static blue	2	Blue horse race lamp to left direction	
3	Blue horse race lamp to right direction	4	Blue background scan lamp back-for-ward direction	
5	Blue water move to right direction	6	Blue water move to left direction	
7	Blue trail to left single direction	8	Blue trail to right single direction	
9	Blue water trail to right direction	10	Blue trail to left double direction	
11	Blue trail to right double direction	12	Blue draw curtain	
13	Blue overlay to right direction	14	Blue overlay to left direction	
15	Blue stroboflash	16	Sub blue overlay to single direction	
17	Blue overlay from middle to both sides			

	Yellow mode group (Press "Y'	' → pre	ss "Mode +"or "Mode -")
NO.	Mode description	NO.	Mode description
1	Static yellow	2	Yellow horse race lamp to left direction
3	Yellow horse race lamp to right direction	4	Yellow background scan lamp back-for-ward
5	Yellow water move to right direction	6	Yellow water move to left direction
7	Yellow trail to left single direction	8	Yellow trail to right single direction
9	Yellow water trail to right direction	10	Yellow trail to left double direction
11	Yellow trail to right double direction	12	Yellow draw curtain
13	Yellow overlay to right direction	14	Yellow overlay to left direction
15	Yellow stroboflash	16	Sub yellow overlay to single direction
17	Yellow overlay from middle to both sides	-	
	Cyan mode group (Press "C"		
NO.	Mode description	NO.	Mode description
1	Static cyan	2	Cyan horse race lamp to left direction
3	Cyan horse race lamp to right direction	4	Cyan background scan lamp back-for-ward
5	Cyan water move to right direction	6	Cyan water move to left direction
7	Cyan trail to left single direction	8	Cyan trail to right single direction
9	Cyan water trail to right direction	10	Cyan trail to left double direction
11 13	Cyan trail to right double direction Cyan overlay to right direction	12 14	Cyan draw curtain Cyan overlay to left direction
15	Cyan stroboflash	14	Sub cyan overlay to single direction
17	Cyan overlay from middle to both sides	10	Sub cyall overlay to single direction
1/	Purple mode group (Press "P"	$\rightarrow$ pre	ss "Mode +"or "Mode -")
NO.	Mode description	NO.	Mode description
1	Static purple	2	Purple horse race lamp to left direction
3	Purple horse race lamp to right direction	4	Purple background scan lamp back-for-ward
5	Purple water move to right direction	6	Purple water move to left direction
7	Purple trail to left single direction	8	Purple trail to right single direction
9	Purple water trail to right direction	10	Purple trail to left double direction
11	Purple trail to right double direction	12	Purple draw curtain
13	Purple overlay to right direction	14	Purple overlay to left direction
15	Purple stroboflash	16	Sub purple overlay to single direction
17	Purple overlay from middle to both sides White mode group (Press "RGI	$\frac{1}{2}$	was "Mada 1" an "Mada ")
NO.	Mode description	NO.	Mode description
	-		-
1	Static white White horse race lamp to right direction	2	White horse race lamp to left direction White background scan lamp back-for-ward
3 5	White water move to right direction	4 6	White background scan lamp back-for-ward White water move to left direction
3 7	White trail to left single direction	8	White trail to right single direction
9	White water trail to right direction	10	White trail to left double direction
11	White trail to right double direction	10	White draw curtain
13	White overlay to right direction	14	White overlay to left direction
15	White stroboflash	16	Sub white overlay to single direction
17	White overlay from middle to both sides		
	Colored mode group (Press "RESI	ET"→	press "Mode +"or "Mode -" )
NO.	Mode description	NO.	Mode description
1	Seven color jumpy change	2	Seven color scan lamp back-for-ward direction
3	Seven color cycling water move to right direction	4	Seven color breathing lamp back-for-ward direction
5	Seven color jumping trail to left single direction	6	Seven color jumping trail to right single direction
7	Seven color gradually change	8	Full color wave to right direction
9	Seven color water move to left direction	10	Colorful switch
11	Seven color overlay to left and right direction	12	Seven color background overlay to double direction
13	Seven color overlay from middle to both sides	14 16	Seven color background overlay middle to both
15 17	Sub seven color move back-for-ward direction	16 18	Sub seven color jump and move back-for-ward
17 19	Sub seven color background move back-for-ward Sub seven color water move to left and right	18 20	Sub seven color spread back-for-ward Sub seven color spread from middle to both sides
21	Sub seven color stretch from middle to both sides	20 22	Sub seven color spread from middle to both sides Sub seven color stretch to single direction
41	Sub seven color sucted from middle to both sides	44	Sub seven color sucien to single direction

- 23 Sub seven color overlay to single direction
- 25 Sub seven color horse race lamp to left direction
- 27 Full color horse race lamp to left direction
- 29 Sub seven color replace horse race lamp to left direction

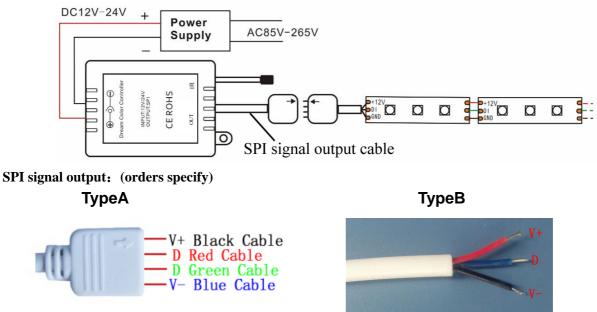
Sub seven color stroboflash

31 Sub three color fade

33

- 24 Sub seven color scan lamp back-for-ward direction
- 26 Sub seven color horse race lamp to right direction
- **28** Full color horse race lamp to right direction
- **30** Sub seven color replace horse race lamp to right direction
- 32 Sub three color jump

# **Typical Applications**



 TypeA: 4PIN Output:
 Black Cable (12V) ,Red and Green Cable (D) ,Blue Cable (GND)

 TypeB: 3PIN Output:
 Red Cable (12V) ,Blue Cable (D) ,Black Cable (GND-)

## **Common Problems**

Problems	Possible cause	Solution
1. Lamp does not light after	Power cord is not properly	Connect the power cord properly
power	connected, or there is not output	or replay the power
	switching power supply	
	Lamp power cord is not	Connected lighting power cord
	connected or short circuit	
2. After connecting some of the	The connected load is too large,	Replace parts of components or
load the controller does not work	so that it has burned in some of	replace the controller
	the components of the controller	
3. After connecting to power the	1. The blank on the button cell of	1.Take away the transparent
controller is working properly, but	remote controller did not pulled	blank 2.Target the remote
remote control can not work	out 2. the remote controller do	controller to the receiver
	not target the receiver	