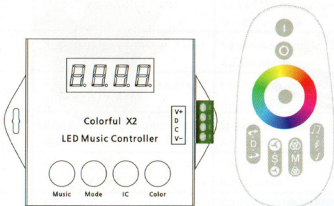


Digital Addressable LED Strip MUSIC Controller



PIC 1

REVISIONS			
REV	Discription	DATE	APPR
A	Release	2015/9/23	Ayang

Support ICs: 1903, 2811, 2812B, 6803,6812.



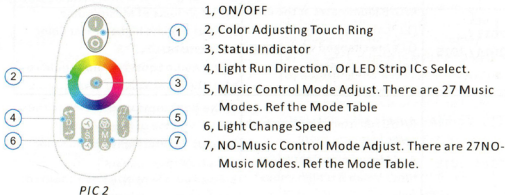
High Light Feature

- 1, An Audio Sensitive LED Light Control System, supports the Strip easily to control by music.
- 2, There will be up to 27 types music-controlling mode.
- 3, There are also 14 types NO-MUSIC control mode.
4. 3.5MM Audio Input Port, avoids the noise from outside. Make the light-music effect perfect.

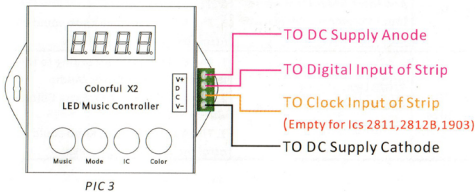
Technical Parameters

Remote Distance:	>20M
Operating Temp.:	-20°C ~ 55°C
Gross. W.:	350g
Package box:	L188*W140*H39mm
Remote	
Remote Control Freq.:	433MHz RF
Power Supply:	2*AAA battery
TX Power:	6db
Standby Power Consumption:	10uA
G.W.:	40g
Receiver	
Input:	DC 5V ~ 24V (Same as the LED Strip)
Output:	Digital Signal, Max 1000 ICs
Operating Noise Level:	<80dB
Supporting ICs:	1903, 2811, 2812B, 6803,6812.

The Remote Introduce

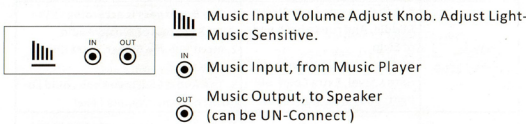


The Receiver Introduce



Display:

- 1, Operate Program #.
 - 1.1) 0001 - 0127: is NO-MUSIC Static Color Ring Program.
 - 1.2) 1001 - 1027: is NO-MUSIC Dynamic Program.
 - 1.3) 1101 - 1127: is NO-MUSIC Dynamic Program, different direction with 1.2
 - 1.4) 2001 - 2027: is MUSIC Program.
 - 1.5) 3001 - 3006: is Color Calibrated Programyed.
- 2, Strip ICs while depress the both ends of key on the remote.
 - 2.1) pls ref "Select the ICs type of LED Strip"

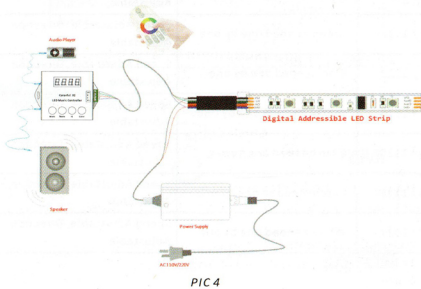


- Music Program # Selecting Key:
There 27 programs, from 2001 to 2027, ref Music Program Table
- NO-Music Dynamic Program # Selecting Key:
There 27 programs, from 1001 to 1027, ref NO-Music Dynamic Program Table



- IC # Selecting Key:
6803, 6812 and 1903 will be displayed.
2811 and 2812b are included into 1903
- Color Calibrating Key:
There are 6 # displayed, 3001 ~ 3006.
The right # will make the Strip Jumping change from RED, to GREEN, and then to BLUE.

SET-UP Connect Introduce:



ON	Other Items	Description
1	Battery	2pcs AAA Battery, to power the Remote
1	LED Strip	Addressable Strip, ICs 1903, 2811, 2812B, 6803,6812
2	DC Power Source	To power the LED Strip, and the Receiver
3	Music Source and Connector	To give Music to the Controller
4	Speaker	Play the Music

Operate Process:

- 1, Install 2pcs AAA Batteries into the Remote.
 - 2, As PIC 4 show, connect STRIP to the Receiver, and to the Power Supply.
 - 3, Turn ON the Power Supply, the Strip will illuminate. If the Strip not illuminate, please check the connection, make sure the Power Supply, the Strip, the Receiver are connected correctly.
 - 4, Don't have to, but pair the Remote to the Receiver if necessary. (refer PIC5).
 - 5, Select the right ICs you used. (refer PIC6).
 - 6, Now the Strip could be controlled by the Remote.
 - 7, the Remote, Press the key **[M M]** to get NO-Music Mode:
 - 7.1, The LED Strip is illuminated according the Mode No. displayed on the Receiver.
 - 7.2, The Mode No. is 10xx, Or 11xx.
 - 7.3, 10xx, or 11xx could be exchanged by press key **[D 1]**
 - 7.4, there are 27 NO-Music Modes
 - 8, In Remote, press the key **[T T]** to get Music Mode:
 - 8.1, Play Music, and input the Music to the Receiver.
 - 8.2, The Strip will dance with Music.
 - 8.3, Select different Music Modes by press the key **[T T]**. The Music Mode No. is displayed on the Receiver.
 - 8.4, There are 27 Music Modes, displayed as 20xx.
- All these steps could be easily managed by the keys on the Receiver.

Pair the Remote to the Receiver

- 1, Power on the Controller,
 - 2, **Within 5 seconds after power the Receiver**, synchronously depress the 2 keys on the Remote. As the right image shown.
 - 3, If the LED triply flicker, the pair process is successfully.
- Note:**
- 1, must press the 2 keys at the same time, as fast as possible!
 - 2, make sure the Remote is awake before pressing the 2 keys.
 - 3, if the Remote is in standby status, the process would not success.



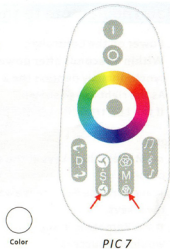
Select the ICs type of LED Stripe

- BY REMOTE:
- 1, Sync depress the 2 keys on the Remote, as PIC 6.
 - 2, The Receiver will identify the ICs of LED Strip. 3, 2811, 2812B, and 1903 is included into "1903"
- Note:**
- 1, If the Controller hasn't recognized ICs, the Strip is illuminated, but the controller could not control the Strip.
 - 2, Must sync depress the 2 keys on the remote, as PIC 6.
- By the "IC" KEY on the Receiver:
- 1, Press "IC" key on the receiver.
 - 2, The iC# will be displayed.



Calibrate the Strip illuminate RGB

- It is optional step. Do not have to, but if you need perfect right RGB, you might do this process.
- BY REMOTE:
- 1, Sync depress the 2 keys on the Remote, as PIC 7.
 - 2, The color of light is calibrated by touching the Color Adjusting Ring.
- BY the "Color" KEY on the Receiver:
- 1, Press "Color" key on the receiver. And the Right Color cold will be displayed.
 - 2, The right # will make the Strip Jumping change from RED, to GREEN, and then to BLUE.



NO-MUSIC Mode Program

Mode # Display Shows	Mode Discription	Remark
1001-1007 / 1101-1107	Static Single Color Light Illuminating	Speed Un-adjustable, Direction Un-adjustable
1008 / 1108	R,G,B (each Color has 3 ICs) Run in WHITE	Speed Adjustable, Direction Adjustable
1009 / 1109	R,G,B (each Color has 3 ICs) Run	Speed Adjustable, Direction Adjustable
1010 / 1110	R,G,B, W (each Color has 3 ICs) Run	Speed Adjustable, Direction Adjustable
1011 / 1111	RED Run. (Head is Brighter, Tail is Darker)	Speed Adjustable, Direction Adjustable
1012 / 1112	RG Run in BLUE. (Head is Brighter, Tail is Darker)	Speed Adjustable, Direction Adjustable
1013 / 1113	GREEN Runs in BLUE	Speed Un-adjustable, Direction Un-adjustable
1014 / 1114	BLUE Runs in RB. (Head is Brighter, Tail is Darker)	Speed Adjustable, Direction Adjustable
1015 / 1115	BLUE Runs in RED.	Speed Adjustable, Direction Adjustable
1016 / 1116	B Runs in RED (Head is Brighter, Tail is Darker)	Speed Adjustable, Direction Adjustable
1017 / 1117	WHITE Runs in RB (Head is Brighter, Tail is Darker)	Speed Adjustable, Direction Adjustable

Mode # Display Shows	Mode Discription	Remark
1018 / 1118	RGB Runs (3ICs each)	Speed Adjustable, Direction Adjustable
1019 / 1119	White(15 ICs) ADD and Reduce in RED	Speed Adjustable
1020 / 1120	White(3 ICs) ADD and Reduce in RED	Speed Adjustable
1021 / 1121	Red heaped one by one	Speed Adjustable, Direction Adjustable
1022 / 1122	Green heaped one by one	Speed Adjustable, Direction Adjustable
1023 / 1123	Blue heaped one by one	Speed Adjustable, Direction Adjustable
1024 / 1124	Yellow heaped one by one	Speed Adjustable, Direction Adjustable
1025 / 1125	Cyan heaped one by one	Speed Adjustable, Direction Adjustable
1026 / 1126	Purple heaped one by one	Speed Adjustable, Direction Adjustable
1027 / 1127	White heaped one by one	Speed Adjustable, Direction Adjustable

MUSIC Program

Mode # Display Shows	Mode Discription	Remark
2001 / 2002 / 2003	RED/GREEN/BLUE JUMP	1, Jump Height (ICs Qty) is according to Music Rhythm (Audio Volume) 2, The Jump Height is also be adjusted by adjusting the Audio Sensitive Knob.
2004 / 2005 / 2006	R/G/B Generate from Strip Middle. While the INPUT Volume is high enough, Extra Color will light, and run to both ends.	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level
2007 / 2008 / 2009	R/G/B Generate from Strip Middle. And run to both ends of Strip. While the INPUT Volume is upto a level, Extra Color will light, and run to both ends.	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level
2010 / 2011 / 2012	R/G/B/W Generate from some where of Strip. And Light runs toward to both end.	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level

Mode # Display Shows	Mode Discription	Remark
2013 / 2014 / 2015	R/G/B illuminates at the end (12 ICs), and ICs illuminated QTY are changed while Input Volume is changed.	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level
2016 / 2017 / 2018	R/G/B run from middle to both ends And More Color Light while Input Volume is high enough	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level
2019 / 2020 / 2021	R/G/B run from both Ends to Middle. And More Color Light while Input Volume is high enough	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level
2022 / 2023 / 2024	R/G/B Light all Strip. And More Color light while Input Volume is high enough	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will be more. 3, The Audio Sensitive Knob could control the Input Volume Level

Mode # Display Shows	Mode Discription	Remark
2025	RGBW Flash	1, The Brightness is according to the INPUT Volume of Music/Audio 2, The Color is according to the INPUT Volume of Music/Audio
2026	RGB Flash in WHITE	1, The Brightness is according to the INPUT Volume of Music/Audio 2, The Color is according to the INPUT Volume of Music/Audio
2027	Multi Mode, Depend on the Input Volume Level. Base color is BLUE	1, The Brightness is according to the INPUT Volume of Music/Audio 2, Input Volume higher, Extra Color will light 3, The Audio Sensitive Knob could control the Input Volume Level

Mechanical Info:

