## APT CORPORATION LIMITD Product Specifications

NAME: RF Dream-color Controller MODEL:APT-CON1606-RF6B-MAIN


## Summarization

RF Dream-color controller is designed for led production which use HL1606 as driver, it has 128*128*128 grayscale, Length setup funtion and Power-fail memory function, you could choose it freely in a lot of programs, meanwhile, you could adjust all kinds of dynamic lighting changes by RF remote controller.It is very useful for light box advertisement,stage light,house decorating and so on.

## Technical parameters

- working temperature:-20-60 ${ }^{\circ} \mathrm{C}$
- supply voltage:DC12V
- external dimension:L94XW59XH25 mm
- packing size:L145XW95XH50 mm
- net weight:205g
- gross weight:235g
- rated power:2.2W
- output: two SPI signals


## External Dimension



## Interface Specification



Power input interface:


Adopt conventional DC power Transposon as power input interface.

Load output interface:


Adopt 5-pin Connector pin.

## Direction for use

1. Connect the load wire at first, following by the power wire; Please ensure short circuit can not occur between connecting wire before you turn on the power.
2. There are eight buttons altogether on controller panel, and every button function as follows:
(1) ON/OFF button, it can open or close led anytime,when led is on the state of closing,the LCD will display IC NUMBER: ***, *** is the value of current setting.

- 11 Play/pause button, when you want to see the static effection of led, you may press this button
to pause.
+ Adding button,to add the IC NUMBER,the maximum is 255 ( 510 groups of $R G B$ )
- Reducing button,to reduce the IC NUMBER,the least number is 16 ( 32 groups of RGB);

Program choosing button, up direction,there are 83 programs in all.

- Program choosing button,down direction;
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Speed-down button,there are 100 steps in all;
( Speed-up button.
3. There are six buttons altogether on remote controller panel, and every button function as follows:
ON / OFF: you could turn on or off load output at any time;
MODE: mode button, you can choose playing or pausing mode, and observe the static results of LED in the state of suspension mode .
$S+$ : the button to increase the rate of change;
S-: the button to slow down the rate of change, a total of 100 steps;
$B+$ : procedures for the selection key and up choice, a total of 83 procedures;
$B-$ : procedures for the selection key, down choice.
4. The description of signal output interface: $L, K, D, S$ is the corresponding signal of HL1606, which is L_I,CK_I,D_I,S_I.

Program description: (Condition: A1 - Blue LED;A2 - Red LED;A3 - Green LED)
5. Standard color changes as follows:

| PROGRAM | Functions |
| :---: | :--- |
| 1 | All color wave forward direction |
| 2 | All color wave backward direction |
| 3 | All color draw curtain by waving |
| 4 | All color lower curtain by waving |
| 5 | Three color wave by wave forward direction |
| 6 | Three color wave by wave backward direction |
| 7 | Three color draw curtain waving by waving |
| 8 | Three color lower curtain waving by waving |
| 9 | Many color wave forward direction |
| 10 | Many color wave backward direction |
| 11 | Many color wave draw curtain |
| 12 | Many color wave lower curtain |
| 13 | Six color trail forward direction |
| 14 | Six color trail backward direction |
| 15 | Six color trail draw curtain |
| 16 | Six color trail lower curtain |
| 17 | Three base color trail forward direction |


| 18 | Three base color trail backward direction |
| :---: | :---: |
| 19 | Three base color trail draw curtain |
| 20 | Three base color trail lower curtain |
| 21 | Six color jumpy change |
| 22 | Three base color jumpy change |
| 23 | Three mixxing color jumpy change |
| 24 | Six color jumpy change forward direction |
| 25 | Six color jumpy change backward direction |
| 26 | Six color jumpy change draw curtain |
| 27 | Six color jumpy change lower curtain |
| 28 | Three base color jumpy change forward direction |
| 29 | Three base color jumpy change backward direction |
| 30 | Three base color jumpy change draw curtain |
| 31 | Three base color jumpy change lower curtain |
| 32 | Six color brush forward direction |
| 33 | Six color brush backward direction |
| 34 | Three base color brush forward direction |
| 35 | Three base color brush backward direction |
| 36 | Six color brush draw curtain |
| 37 | Six color brush lower curtain |
| 38 | Three base color brush draw curtain |
| 39 | Three base color brush lower curtain |
| 40 | Change color red-purple-red forward direction |
| 41 | Change color red-purple-red backward direction |
| 42 | Change color red-purple-red draw curtain |
| 43 | Change color red-purple-red lower curtain |
| 44 | Change color red-yellow-red forward direction |
| 45 | Change color red-yellow-red backward direction |
| 46 | Change color red-yellow-red draw curtain |
| 47 | Change color red-yellow-red lower curtain |
| 48 | Change color red-green-red forward direction |
| 49 | Change color red-green-red backward direction |
| 50 | Change color red-green-red draw curtain |
| 51 | Change color red-green-red lower curtain |
| 52 | Change color red-blue-red forward direction |
| 53 | Change color red-blue-red backward direction |
| 54 | Change color red-blue-red draw curtain |
| 55 | Change color red-blue-red lower curtain |
| 56 | Change color green-cyan-green forward direction |
| 57 | Change color green-cyan-green backward direction |
| 58 | Change color green-cyan-green draw curtain |
| 59 | Change color green-cyan-green lower curtain |
| 60 | Change color green-blue-green forward direction |


| 61 | Change color green-blue-green backward direction |
| :--- | :--- |
| 62 | Change color green-blue-green draw curtain |
| 63 | Change color green-blue-green lower curtain |
| 64 | Change color red-white-red forward direction |
| 65 | Change color red-white-red backward direction |
| 66 | Change color red-white-red draw curtain |
| 67 | Change color red-white-red lower direction |
| 68 | Change color green-white-green forward direction |
| 69 | Change color green-white-green backward direction |
| 70 | Change color green-white-green draw curtain |
| 71 | Change color green-white-green lower direction |
| 72 | Change color blue-white-blue forward direction |
| 73 | Change color blue-white-blue backward direction |
| 74 | Change color blue-white-blue draw curtain |
| 75 | Change color blue-white-blue lower curtain |
| 76 | Six color fade in and fade out forward direction |
| 77 | Six color fade in and fade out backward direction |
| 78 | Six color fade in and fade out draw curtain |
| 79 | Six color fade in and fade out lower curtain |
| 80 | Three base color fade in and fade out forward direction |
| 81 | Three base color fade in and fade out backward direction |
| 82 | Three base color fade in and fade out draw curtain |
| 83 | Three base color fade in and fade out lower curtain |

## Typical Application



