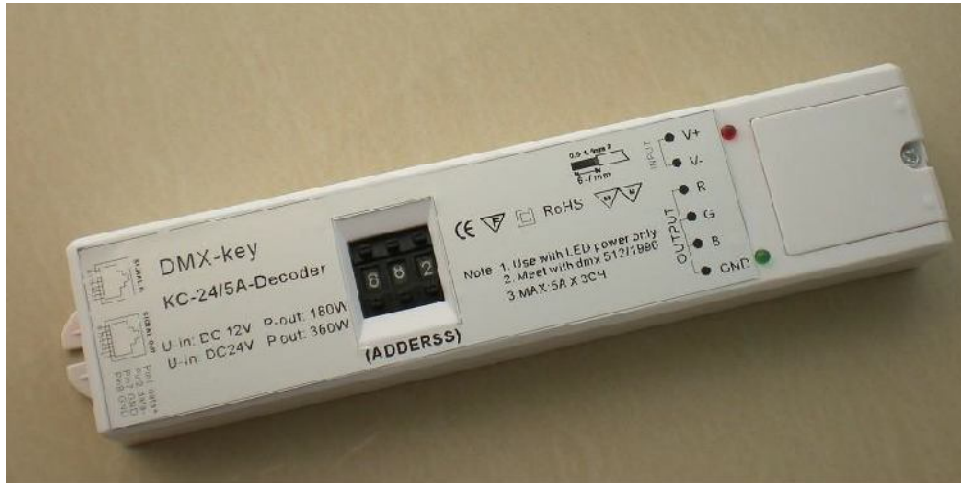


# DMX-KEY Manual

LED WORLD INC 1-800-387-4081  
www.ledworldlighting.com



## 1. Brief

- DMX-KEY can accept a wide range of voltage input (12-36 VDC).
- It is a 1 pixel DMX Decoder.
- It can be used as a simple DMX Master or as a DMX Decoder.
- As DMX Master it has 30 pre-set programs.
- Meets with DMX512/1990 standards.
- Anti-interference ability—signal connector has shielding.
- Long distance transfer (two decoder distances can be 300m).
- Every Decoder is an amplifier.
- You can connect 170 decoders in series.
- Easy to address and use,
- It can be used for: wall-washer, down-lighting, linear lighting lamps.
- Constant voltage.

## 2. General Specifications

Item	Specification
KC-24	DMX-KEY
SIZE	204 x 44 x 25mm (approximately)
MAX INPUT	12 - 24 VDC
MAX AMPS	3A PER CHANNEL / 5A TOTAL
CONTROL OUTPUT	R, G, B, COMMON POSITIVE
PIXEL	R/G/B
SIGNL INTERFACE	DMX512/1990
ADDRESS	Dial Select
STORAGE TEMP	-15 to 85 Degrees Fahrenheit
PRE-SET PROGRAMS	29
WEIGHT	115G

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## 3. Address :

1. If the Address is set to X then:

Red Address = X  
Green Address = X +1  
Blue Address = X +2

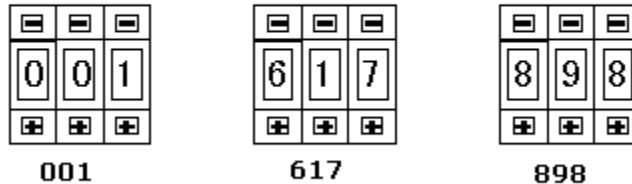
For example: if Red Address is 001, then Green Address is 002, and Blue Address is 003.

2. This Decoder is an amplifier so please take care in regards to the signals in and out. Only a proper connection will ensure the Decoder will work as an amplifier.

## 4. Function

It has two functions: A. DMX Decoder, B. DMX Master.

### HOW TO READ ADDRESS?



### A : As Decoder, address 001-512.

The address must less than 513 to work as a DMX Decoder. When the Address is less than 513, DMX-KEY will only work as a DMX Decoder, the pre-set programs won't work.

If the Address is set to X then:

Red Address = X  
Green Address = X +1  
Blue Address = X +2

For example, if X is 1 then: Red Address is 001, Green Address is 002, and Blue Address is 003.

If you want two or more DMX-KEYs operating independently then their Addresses must different by at least a value of 3. For example, if the first DMX-KEY's Address is 123, the second DMX-KEY'S Address must be at least 126 (it can't be 124 or 125).

### B: Auto Address setting

When number is 600-699, it is in auto addressing mode. It needs DMX-ADDRESSING to be set once. It can locate 512 addresses maximum. After setting, the address will be memorised until next re-address.

Under this mode, the DMX-KEY only work as Decoder, however, when no DMX signal is coming in, it will run the auto-test program as follows. This is intended to be used for test assembly.

# DMX-KEY Manual

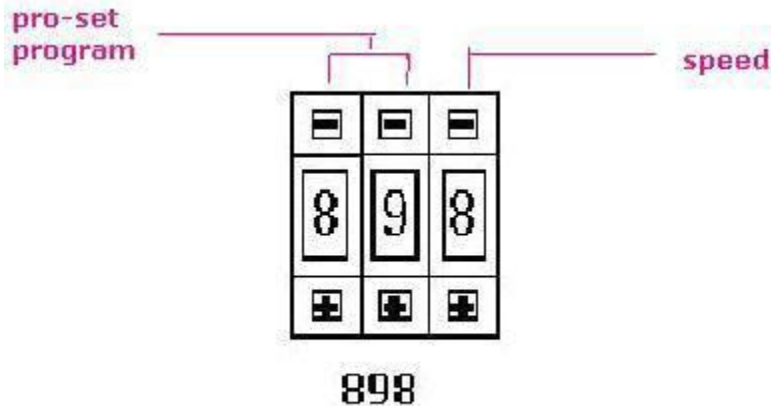
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NO	Program	Note
60	OFF	
61	7 Color jump	
62	7 color fader	
63	RED	
64	GREEN	
65	BLUE	
66	YELLOW	
67	GREY	
68	CYAN	
69	WHITE	

## C: As DMX Master. 710-999

Address between 71x-99x will place the DMX-KEY in DMX Master Mode. As such, it will not accept signals from a DMX MASTER. The input interface will be a DMX signal output.

The address number can be read as two parts:



The Speed can be set from 0 - 9 with 0 being very slow and 9 being the fastest.

Pro-set program details as following:

NO	Brief	Note
70	OFF	
71	Seven Color Jumping	
72	Seven Color Fade	
73	Seven Color Jumping and Fade	
74	Seven Color Tail Chase	
75	Seven Color Water Flowing	
76	71-72-73-74-75	
77	Red	

# DMX-KEY Manual

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78	Green	
79	Blue	
80	Yellow	
81	Purple	
82	Cyan	
83	White	
84	Red Fade	
85	Green Fade	
86	Blue Fade	
87	Yellow Fade	
88	Purple Fade	
89	Cyan Fade	
90	White Fade	
91	Seven Color Fade Recycle	
92	Red Flash	
93	Green Flash	
94	Blue Flash	
95	Yellow Flash	
96	Purple Flash	
97	Cyan Flash	
98	White Flash	
99	Seven Color Flash	

MODE	KC-24/5A-KEY
L	Constant Voltage
Power loading	1. Each output channel: 3A Max. 2. Input: 12V. Max loading 100W 3. Input: 24V, Max Loading 100W
NOTE	1. Load LED Voltage must be the same voltage as the Input Voltage. 2. This unit is only rated to be used in conjunction with will with Power LEDs.

## 6: NOTE

- a) When the power is connected correctly, the Red LED will be ON.
- b) When DMX-KEY is working, the Blue LED will flash.
- c) When many KEY-DMXs are working together, only one can be Master, the rest must be slave.
- d) The DMX-KEY is for use indoors.
- e) The Input Voltage range is from 12 - 24VDC.
- e) Ensure all assembly is complete and all connections are made before you power the unit on.

**When using power supplies; the following basic safety features should be verified in addition to any other application specific concerns and local safety codes:**

- **Short circuit protection**
- **Overload protection (FUSE)**
- **Overheat protection**
- **Overheat protection**
- **Correct wire gauge**
- **Correct output voltage, including consideration for ripple and spikes.**