

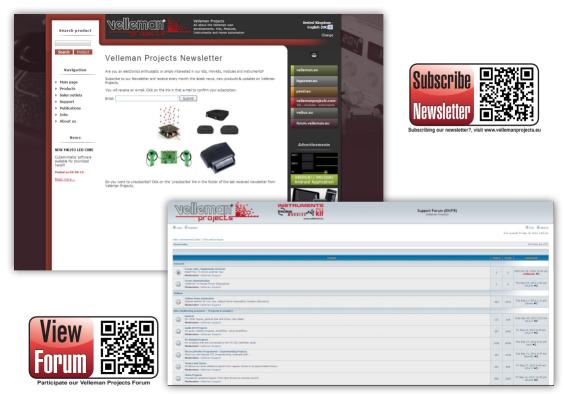
K8018W 🗹 K8018B



vellemen"



Connect to your computer and create your own 3D LED effect.



Expert soldering skills required!



It is advised to start with the mini 3D LED cube MK193. View the assembly movie of MK193 as guideline for assembly of the LEDs.



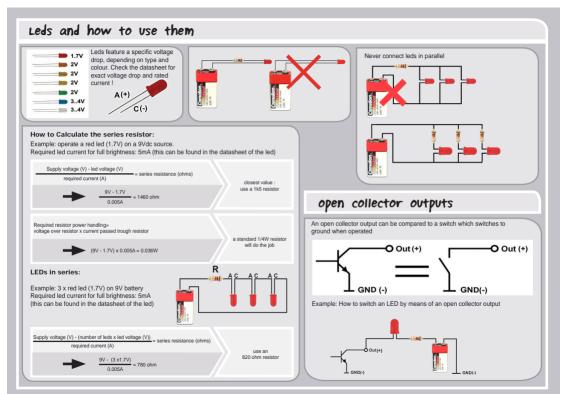
Build your 3D led cube and created unlimited 3D effects. The unit comes standard loaded with effects. Connect to your computer (USB) and create your own!

Features

- LEDs: 5 x 5 x 5 = 125 LEDs
- · user programmable via USB (creation of animation/scenes)
- · large amount of user programmable frames
- · frames are separately dimmable
- · 4 transition speeds
- · available frames: 3200
- · 5 levels LED dimming available
- · no coding skills required
- regulated power supply: 9VDC



For software, visit www.vellemanprojects.eu



1. Assembly (Skipping this can lead to troubles !)

Ok, so we have your attention. These hints will help you to make this project successful, Read them carefully.

1.1 Make sure you have the right tools:

- A good quality soldering iron (25-40W) with a small tip.
- · Wipe it often on a wet sponge or cloth, to keep it clean; then apply solder to the tip, to give it a wet look. This is called 'thinning' and will protect the tip, and enables you to make good connections. When solder rolls off the tip, it needs cleaning.
- · Thin raisin-core solder. Do not use any flux or grease.
- · A diagonal cutter to trim excess wires. To avoid injury when cutting excess leads, hold the lead so they cannot fly towards the eyes.
- · Needle nose pliers, for bending leads, or to hold components in place.
- Small blade and Phillips screwdrivers. A basic range is fine.
- For some projects, a basic multi-meter is required, or might be handy

1.2 Assembly Hints :

assemble

hints

- · Make sure the skill level matches your experience, to avoid disappointments.
- Follow the instructions carefully. Read and understand the entire step before you perform each operation.
- · Perform the assembly in the correct order as stated in this manual
- Position all parts on the PCB (Printed Circuit Board) as shown on the drawings.
- · Values on the circuit diagram are subject to changes, the values in this assembly quide are correct*
- · Use the check-boxes to mark your progress.
- Please read the included information on safety and customer service

* Typographical inaccuracies excluded. Always look for possible last minute manual updates, indicated as 'NOTE' on a separate leaflet

1.3 Soldering Hints :

- 1. Mount the component against the PCB surface and carefully solder the leads
- 2. Make sure the solder joints are cone-shaped and shiny
- 3. Trim excess leads as close as possible to the solder joint



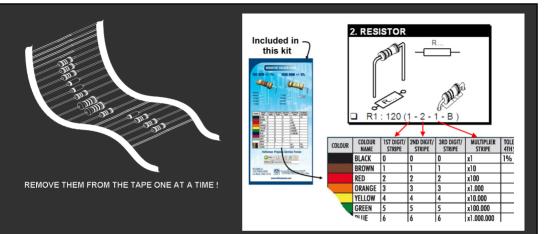








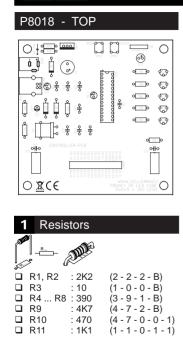


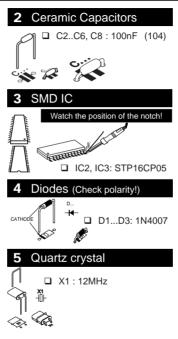


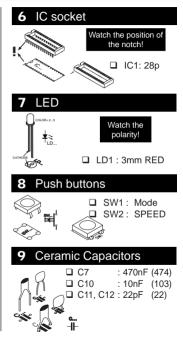
DO NOT BLINDLY FOLLOW THE ORDER OF THE COMPONENTS ONTO THE TAPE. ALWAYS CHECK THEIR VALUE ON THE PARTS LIST!

Construction

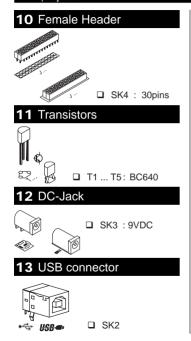
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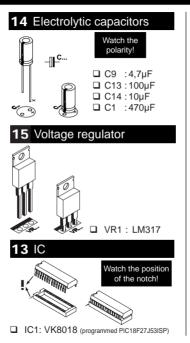


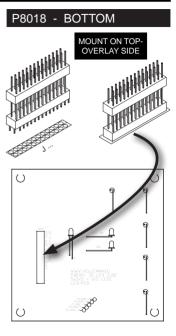




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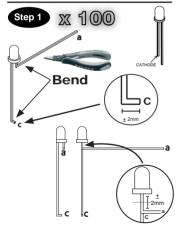


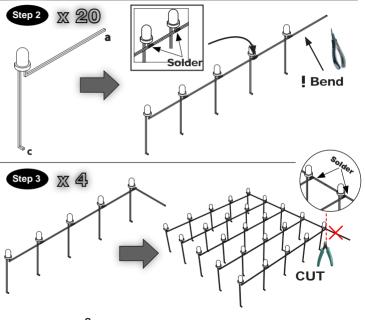


ASSEMBLY OF THE LEDS

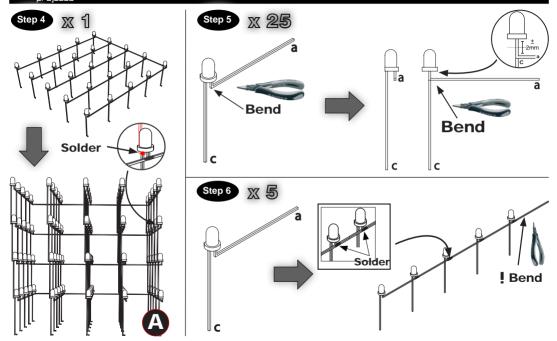


View the assembly movie of MK193 as guideline for assembly of the LEDs.

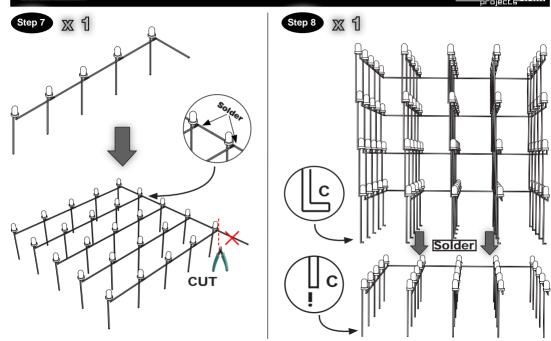




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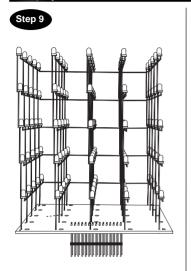
Construction

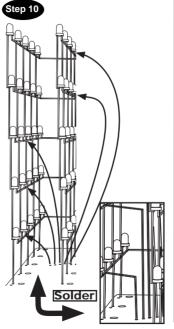


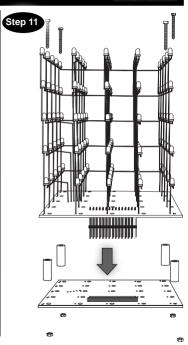
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Construction







Software



Rotate the leds

•↔×

Use the controller to **shift** the leds

SHARE



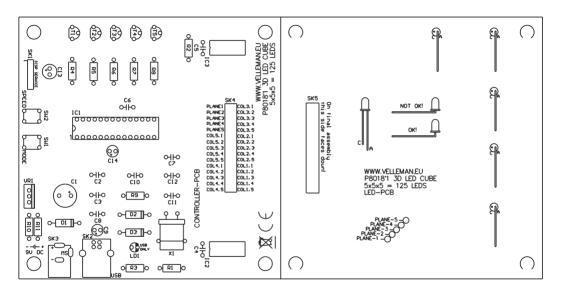
Choose 5x5 to send or read the animations of your 5x5x5 LED cube.

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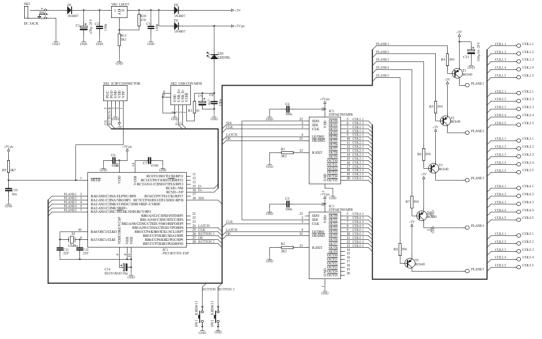
grimate

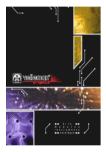
РСВ





projects





The new Velleman Projects catalogue is now available. Download your copy here: <u>www.vellemanprojects.eu</u>





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