MINLEON 500 LIGHTS MULTIFUNCTION MINI CONTROLLER QUICK REFERENCE

⚠️ PRECAUTIONS & INSTALLATION REQUIREMENTS

1. If using outside then ensure that the controller is mounted from the mounting eye piece with the power and USB sockets facing downwards and caps in place on the USB port if not used.
2. The controller must not be located no more than 6 metres away from the first light unless using the Minleon sender and receiver unit (Minleon additional accessory) which will allow up to 100 metres of distance between the controller and first light.
3. Never disconnect and connect lights when the controller is powered up as this may cause permanent damage to the lights and/or controller.
4. Do not place lights or controller in areas where there is extreme heat or cold.
5. Do not strain the cables of the lights as damage may occur to the wiring.
6. Always keep the plug cap on at the end of the light string when not used.
7. Firmly tighten all plugs, do not over tighten
8. Do not drop controller, remote or lighting on hard surfaces
9. Do not use if there is any damage to the controller, wiring or lighting
10. Do not use detergents on the controller, remote or lights as this may cause permanent damage. Use a soft clean rag to clean the controller, remote and lights.

INTRODUCTION

The Minleon 500 Lights Multifunction Mini Controller is an entry level controller capable of controlling up to 500 Lights on a single string, but can operate many thousands of lights wired in parallel using Minleon accessories. Comes with multiple effects built in that can run at different speeds and colors and allows the user to also select up to 3 colours to be used in effects

The USB port allows live control via PC and is controlled using Minleon's LightShow Pro software

There are also a wide variety of accessories available for the mini controller that can extend the capabilities of the Minleon RGB system.

* Additional Spacer shown

PARTS AND CONNECTION

1: Multifunction Mini Controller

The Minleon Multifunction Mini Controller has many inbuilt functions and is very powerful for a small package

2: Mini Controller Remote

The Minleon Multifunction Mini Controller Remote allows you to take control of the lights connected to the multifunction mini controller in many ways

3: 12VDC Power Supply

12VDC 2 amp power supply that can power up to 50 Minleon RGB lights and the controller. (May come with an outdoor power supply)
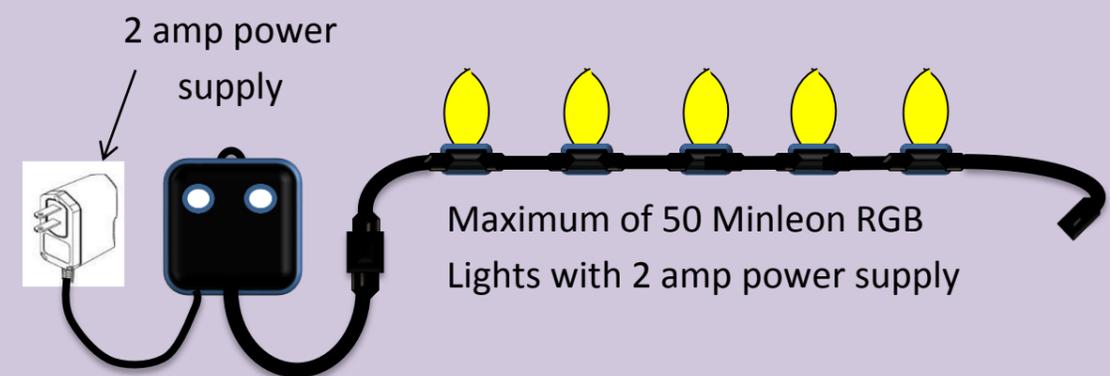
4: Minleon RGB Lights

A variety of different lights, tubes and strip Lighting are available from Minleon
⚠️ Always power off the controller before connecting and disconnecting lights

Diagram for connecting the power supply and lights

2 amp power supply

Maximum of 50 Minleon RGB Lights with 2 amp power supply

Adding additional lights

The Minleon Multifunction Mini Controller can control up to 500 Minleon lights (additional power considerations are required) Connect additional light strings using Minleon accessories, power supplies and lights.

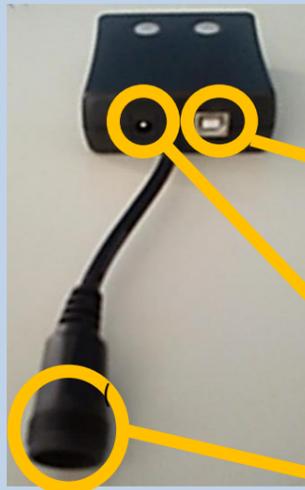## Setting the number of lights connected to the Controller

Turn the lights on then hold the ⏻ button for more than 1 second. All active lights will turn on Red with the last active light flashing blue.

Press **B** to decrease the number of lights connected.

Press **M** to increase the number of lights connected.

Press ⏻ to return to normal operation

USING THE CONTROLLER FUNCTIONS

Multifunction Mini Controller

The Minleon Multifunction mini controller has several basic and advanced functions that allow the user to take full control of the lights connected

USB Port

The USB port allows the mini controller to be connected to a computer for direct control via Minleons LightShow Pro Software

12Volt DC Power Socket

Connect the 12VDC power supply here

Light Plug

Connect the lights to this 3 pin plug. Ensure the pins line up and do not force in the plug.

⚠ **IMPORTANT   -   DO NOT CONNECT & DISCONNECT LIGHTS WHEN CONTROLLER IS PLUGGED IN**

Mini Controller Control

The multifunction mini controller can have basic control from the controller by using the below function buttons.

▶ Play Button

Plays next effect - If held down, turns power off and saves effect for next power up. Press to turn lights back on. [b]

＋ Variation Button

Modifies the current effect (speed, colour, etc depending on effect).

USING THE REMOTE CONTROL FUNCTIONS

⏻ - on/off
C1 - select colour #1 (press-and-hold to scroll thru the colour wheel) [a]
C2 - select colour #2 (press-and-hold to scroll thru the colour wheel) [a]
C3 - select colour #3 (press-and-hold to scroll thru the colour wheel) [a]
E1 - select effect #1 (solid)
E2 - select effect #2 (twinkle)
E3 - select effect #3 (fading-in-and-out)
E4 - select effect #4 (chasing)
E5 - select effect #5 ('lightshow', using all the colours (this selection overrides the above colour selections)
S - select speed (slow, medium, fast)
B - select brightness (bright, dim, dimmer)
M - save to memory favourite sequence (long hold retains/short press recalls)

SELECTING EFFECT COLOURS

[a] select up to 3 alternating colours (for example, red-white-blue)

Press and hold key 'C1', then release when you see red in bulb #1 as you scroll thru the colour wheel, repeat for keys 'C2' (bulb #2) for white, and 'C3' (bulb #3) for blue, when done the light string with be alternating red, white, and blue. Select from near limitless combinations of colours.

if only a single colour is needed then select the 'bulb off' position as you scroll thru the colour wheel for the 2nd (C2 key) and 3rd (C3 key) bulb

➢ If only two colours are need, then select the 'bulb off' position as you scroll thru the colour wheel for the 3rd bulb

[b] Selecting the additional 23 inbuilt controller effects

If you want a larger variety of effects, instead of using the remotes 5 colour programmed effects (E1-E5), then use the play button on the mini controller to access the 23 different effects.

➢ To save one of the 20 built in effects to memory, press the play button on the mini controller to select your desired effect and then press and hold the M button (memory) on the remote for more than 1 second.

Mini Controller Various Effects

No.	Effect Name	Effect Description	Variation	No.	Effect Name	Effect Description	Variation
	CONTROLLER EFFECTS	Effects using the controller Play button			USER COLOUR EFFECTS	User Colour Effects using the controller	
1	Test Pattern	test mode red-green-blue white		15	Effects Manual Mode*	uses the effects colour edit mode colours	
2	Demo Mode	changes effects randomly		16	Colour Burst*	lights bursting from side	4 speeds
3	White Light	Lights are all White		17	Chaser*	coloured chaser lights	4 speeds
4	Colour Wheel	all lights cycle through colour wheel	4 speeds	18	Ping Pong*	back and forth colours from centre	4 speeds
5	Rainbow	rainbow of colour	4 speeds	19	Colour Glow*	glowing colours	4 speeds
6	Wide Rainbow	wide rainbow of colour	4 speeds	20	Colour Waves*	coloured wave	2 styles
7	Christmas Lights	colours fade in and out	4 speeds	21	Colour Blend*	blends colours across the string	
8	Colour Change	all lights change to new colours	4 speeds	22	Twinkle*	twinkling, flashing lights	4 speeds
9	Two Colour Change	alternate lights change to new colours	4 speeds	23	Shimmer*	shimmering lights	
10	Chaser	coloured chaser lights	4 speeds		USER REMOTE EFFECTS	User Colour Effects Using the Remote	
11	Ping Pong	back and forth colours	4 speeds	E1	Chosen Colours On	Chosen colours are on	4 Speeds
12	Expander	colours expanding from centre	8 themes	E2	Chosen Colour Twinkle	Chosen Colours Twinkle	4 Speeds
13	Exploder	lights exploding from centre	4 speeds	E3	Chosen Colour Glow	Chosen Colours will Glow	4 Speeds
14	RGB Flash	Red Green Blue flasher	4 speeds	E4	Chosen Colour Chase	Chosen Colours will Chase	4 Speeds
		* A total of 3 colours chosen by user		E5	Random Effects	Random Effects from all the above effects	