

Product Warnings

Light Hazard Warning, never look directly or in-directly into the lamp without protective eyewear.



1. Do not consume alcohol or drugs of any kind while installing this lamp.
2. Verify input voltage is as indicated on the label at the back of the lamp, before installation.
3. Install hanging kit as described in this document.
4. Remove any plants from the hanging area before installing the lamp.
5. Only secure your lamp via the hanging kit supplied.
6. Ensure your hanging area is moisture free.
7. Ensure your lamp is hanging evenly to avoid eye damage.

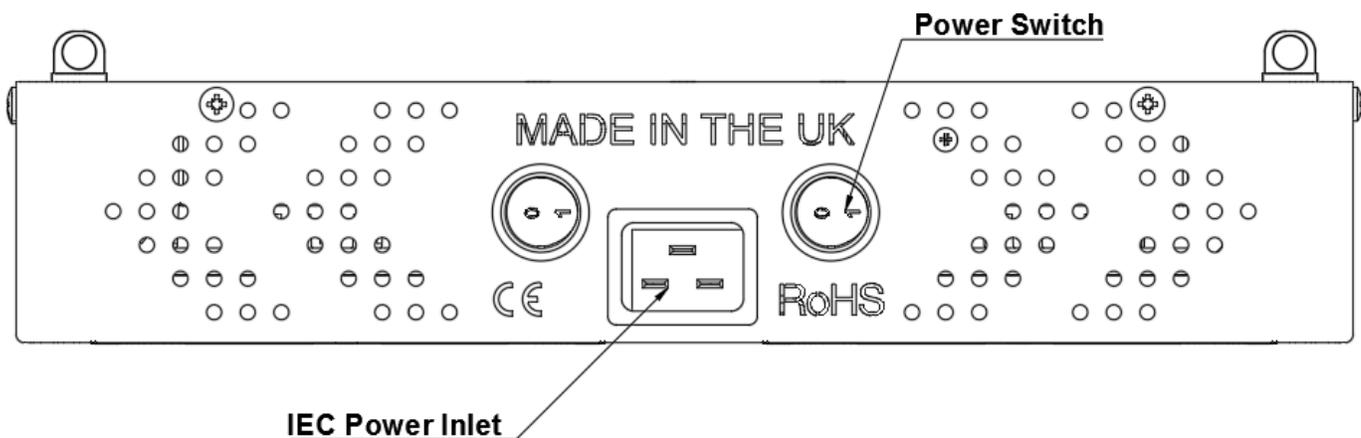
Powering Up Your Lamp

Do not attempt to power up your lamp without consultation if:

1. You see significant shipping damage.
2. You see water ingress through the packaging.

All Budmaster lamps use a standard IEC power receptacle and will come with a corresponding 1.8m long power cord for your region.

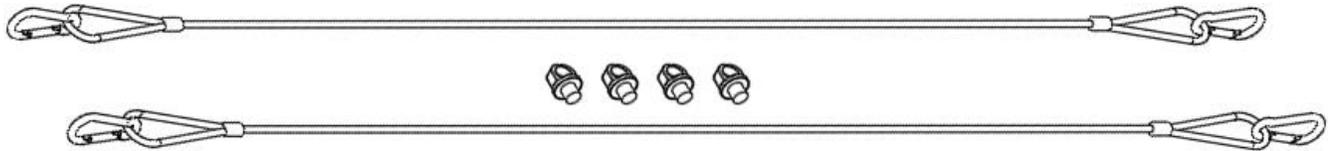
The switches on your lamp are to power up the lamp in two separate halves so you can choose to use less power for your vegetative stage. Both switches in the 1 position put the lamp to full power.



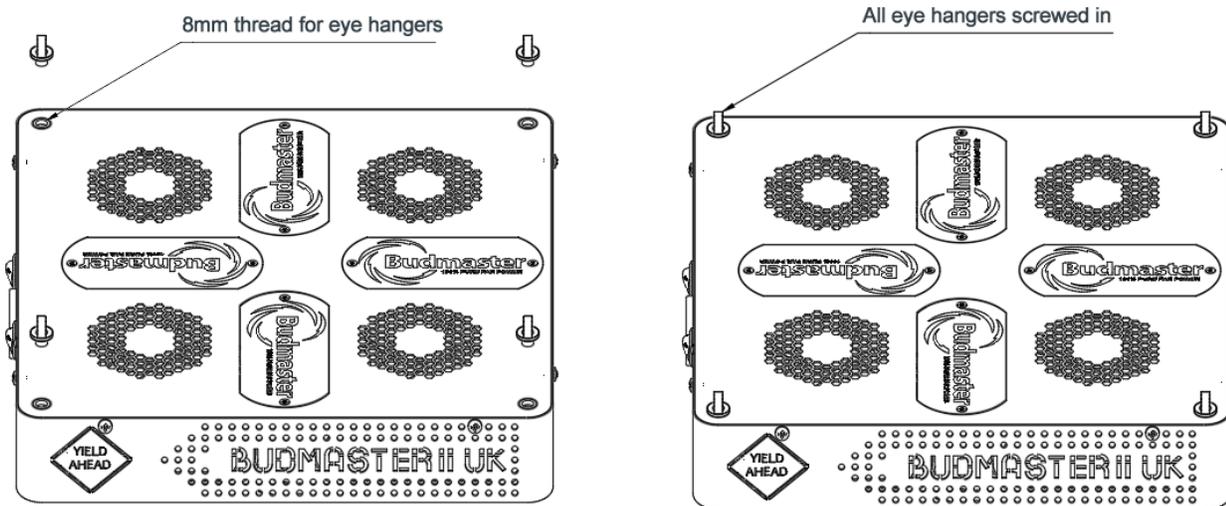
Budmaster II LED Lamp Installation Guide

Attaching Your Hanging Kit

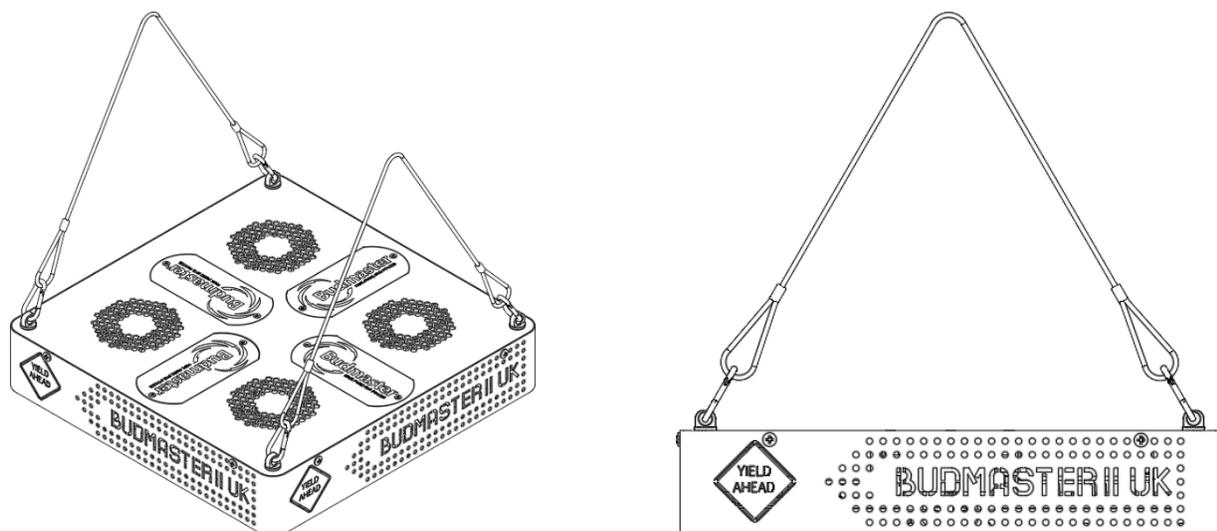
All of our Budmaster lamps are supplied with a hanging kit that can take a 40kg+ load which is installed by the user, the kit comprises of 4 threaded eye bolts and 2 steel hanging wires:



The eye bolts are screwed into the 8mm threads on the back of the lamp by the user:

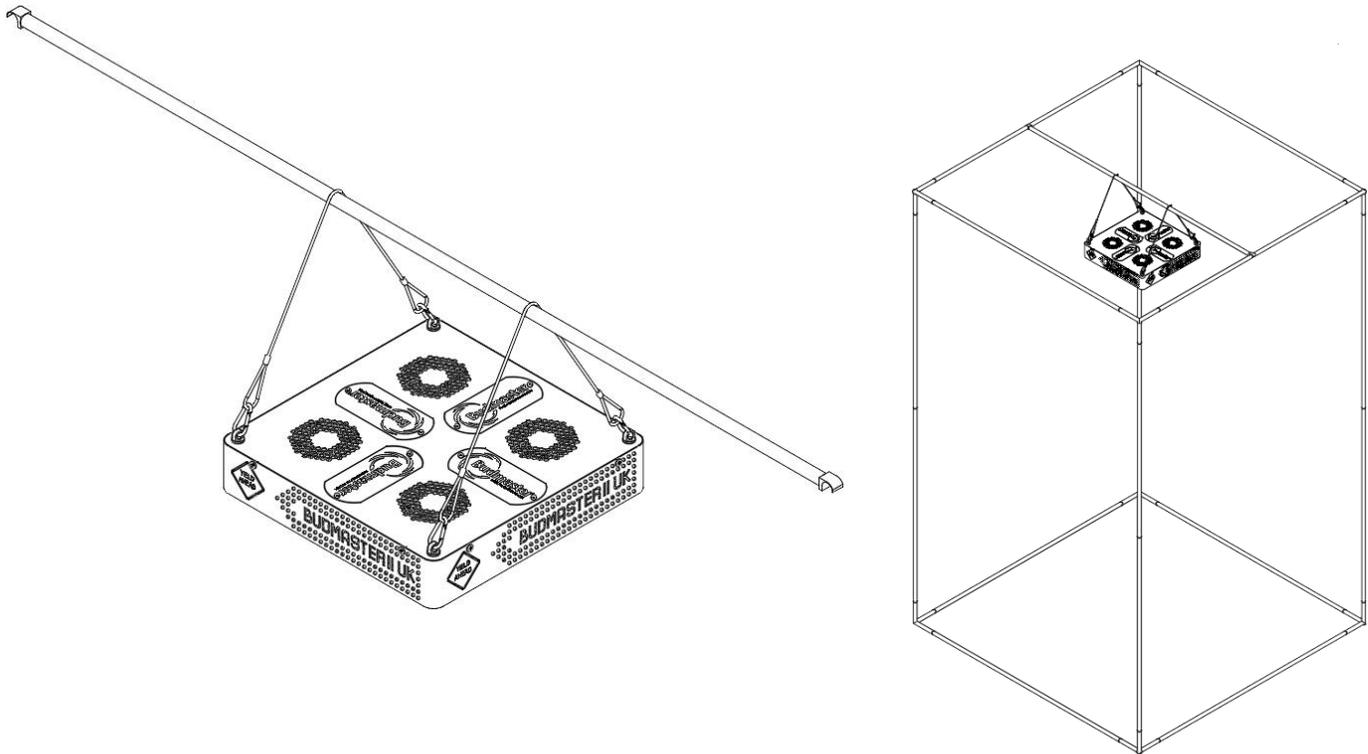


The hangers are attached to the eye bolts using the karibeners supplied:



Hanging Your Lamp Safely

If you are growing plants in a grow tent then we suggest taking down the hanging bar from the tent and threading it through the hangers and then hanging the light and bar as one, and remove any plants or equipment from the hanging area:



If you are hanging your lamps in a room then ensure that your hanging gear is rated to take the weight of the lamps plus an additional 20% to allow for any movement.

Important LED Growing Tips

LED is a superior way to grow but sometimes you may have to make some adjustments to your environment and feeding regime to get the most out of your lamps:

1. Hang your lamps as stated in the hanging guide for your lamp to get the most effective use of the lamp and ensure the plants don't overdose on light. Do not be tempted to hang them too close as you do when using HID as this is just a waste of energy.
2. Don't Overwater. If you are not growing hydroponically then be careful not to overwater your plants as when growing with led there is less radiant heat so less evaporation of nutrients.
3. Turn down the exhaust temperature setting on your fan controller as not as much heat is generated with led so you need to ensure stale air is dumped.
4. Cold Roots = Small Fruits. Check your pots by placing your hands on them, if they are too cold to the touch think about adding additional heat to your room. If you are struggling to keep your root zone warm then switch to felt pots.
5. Additional Cal Mag. Plants grown under our led can take in a lot more nutrients and in some instances demand much more Calcium and Magnesium so if you are in a rural area especially then it is a good safeguard to have a bottle of Cal Mag on standby.

Budmaster II LED Lamp Installation Guide



Hanging Distance

Our lamps are very powerful and designed to be kept at 1.8m+ distance from the ground. To get the right amount of light to your plants at the right time consult the chart below.

Seedling Stage average light required = $50\mu\text{mol}/\text{m}^2/\text{s}$

Vegetative Stage average light required = $200 - 400\mu\text{mol}/\text{m}^2/\text{s}$

Bloom Stage average light required = $800 - 1000\mu\text{mol}/\text{m}^2/\text{s}$

Over $1000\mu\text{mol}/\text{m}^2/\text{s}$ then add carbon dioxide to see a huge increase in yield.

So by consulting the chart below we can see that in bloom for best results the COB-X-9 should be around 18 inches from the plants canopy.

	1ft	2ft	3ft	4ft	5ft
COB-X-2	440	140	80	60	40
COB-X-4	1000	321	170	140	121
COB-X-6	1045	465	272	215	178
COB-X-8	1320	550	330	240	200
COB-X-9	1400	625	376	312	270
HPS-2	990	420	230	150	110
HPS-4	1290	680	420	290	210
HPS-6	1320	780	500	340	260
HPS-8	1420	820	550	400	310
HPS-9	1420	1020	720	510	390
OD-2	760	340	195	140	100
OD-4	1490	790	470	330	240
OD-6	1540	910	570	370	280
OD-8	1580	970	690	510	400
OD-9	1850	1120	740	530	410
GOD-2	970	460	260	180	130
GOD-4	1940	1010	610	400	300
GOD-6	2010	1190	720	510	390
GOD-8	2260	1300	850	610	480
GOD-9	2400	1610	1000	710	570
XG-2	800	300	180	130	90
XG-4	1520	650	400	290	210
XG-6	1600	800	500	320	240
XG-8	1770	880	630	450	300
XG-9	2160	1000	650	490	350





Deutschland:	https://www.growland.net
Europe:	https://www.growland.biz
France:	https://www.growland.fr
España:	https://www.growland.es
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