Mitras Lightbar 2

Manual

Properties

Mitras Lightbar is a high-performance LED-lamp for aquariums. The light can be dimmed with our *ProfiLux Controller* but also works as a standalone device without dimming functions. *Mitras Lightbar* is available in 4 light-color variants: Daylight, Ocean Blue, Actinic and Deep Actinic.

Assignment of the LED-colors to the illumination channels in dimmed operation (ProfiLux required)

Chanel	Lightbar Daylight	Lightbar Ocean Blue	Lightbar Actinic	Lightbar Deep Actinic	Color
1	X	X	X	X	Red (622 nm)
2	X	X	X	X	Green (530 nm)
3	X	X	X	X	Blue (472 nm)
4					Warm white (3000 K)
5	X	X			Neutral white (4500 K)
6	X	X	X		Cold white (6500 K)
7		X	X	X	Cold white (8000 K)
8		X	X	X	Royal blue (455 nm)
9			X	X	Hyper violet (425 nm)
10				X	Deep blue (450nm)

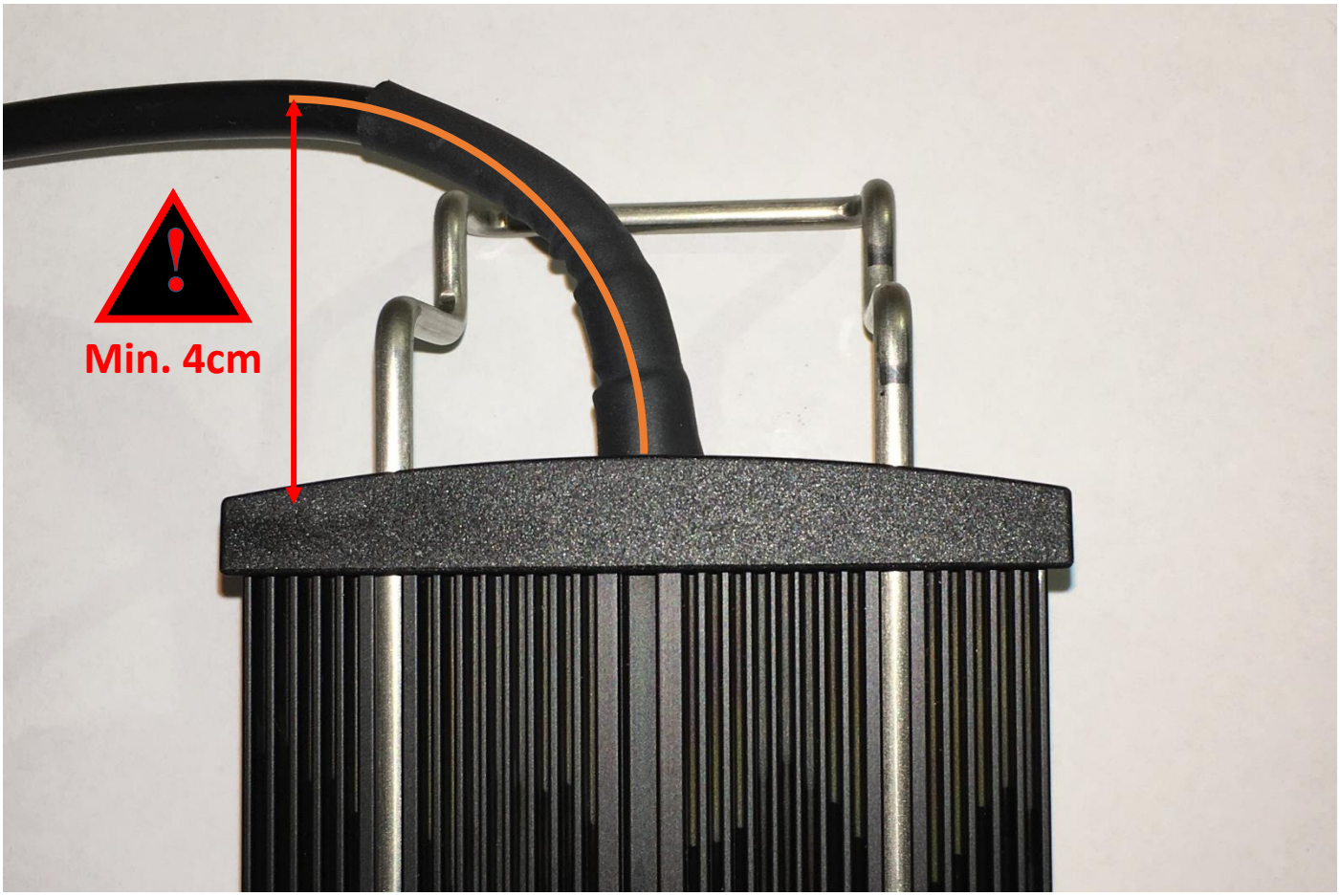
(not assigned LED-colors are not present in the according lamp)

Requirements

Not dimmed operation, 1 power supply unit per *Mitras Lightbar*	Not dimmed operation, 1 power supply unit for multiple *Mitras Lightbar*	Dimmed operation, 1 power supply unit for 1 or more *Mitras Lightbar*
1x Mitras Lightbar	*2x … 4x Mitras Lightbar*	1x … 4x *Mitras Lightbar*
LED power supply unit (optional accessory)	LED power supply unit (optional accessory)	LED power supply unit (optional accessory)
	Splitter *Mitras-LB-Splitter* (optional accessory)	Splitter *Mitras-LB-Splitter* (optional accessory)
		Lightbar-Interfacecable (optional accessory)

Installation - must be observed!

The luminaire must be at least 10mm away from the water surface.
The luminaire is protected against brief immersion for a few minutes, but the luminaire must not be permanently submerged.
The lamp is splash-proof, but it must not be exposed to permanent splash water.
Handle the cable entry on the luminaire with strain relief and bend protection carefully! Excessive tension on the cable or strong bending or even kinking will lead to mechanical damage and thus to leaks, as a result penetrating water will irreparably destroy the luminaire.
The minimum bending radius of the cable (including strain relief and anti-kink protection) is 4cm.



<u>Damage caused due to non-compliance with the above-mentioned installation instructions, are not covered by the warranty, resulting repairs or replacement are chargeable!</u>

The luminaire may be installed with the included brackets on the aquarium rim or inside the cover, e.g. above the drip edge. The length of the lamp can be adapted to the aquarium. In case of space problems, our optionally available flat brackets can also be used.

<u>Connection</u>

IMPORTANT: All connections must be plugged (or unplugged) when all power is shut off! This means that a power supply for this Mitras Lightbar(s) as well as a controlling ProfiLux (if present) must be connected to power only <u>after</u> all connections are completed – <u>never before</u>. This is valid for all connections (e.g. power supply, light bar, splitter, communication cable to ProfiLux, if present).
All plugs have a polarity, a wrong (twisted) plugging will cause damage. Although all plugs are designed in a way that easy plugging is only possible in one position it is possible to plug them wrong when using some force.
<u>All defects resulting out of plugging when powered or with wrong polarity are not covered by warranty, all consecutive repairs must be paid in full!</u>

Not dimmed operation, 1 power supply unit per *Mitras Lightbar*:
The light is connected directly to the power supply unit.

Not dimmed operation, 1 power supply unit for multiple *Mitras Lightbar:*
The lights have to be connected to the splitter *Mitras-LB-Splitter.* The splitter is connected with the power supply unit afterwards.

Dimmed operation, 1 power supply unit for 1 or more *Mitras Lightbar:*
The lights have to be connected to the splitter *Mitras-LB-Splitter.* The splitter is connected with the serial interface of the *ProfiLux* controller using the *lightbar interfacecable* and with the power supply unit afterwards.
CAUTION: The LED power supply unit must have at least the total power of all connected lightbars.
At overload the lightbars shut down and indicate an error (red LEDs will flash). After a certain time the lightbar tries to restart automatically.

Optional accessories:

Splitter *Mitras-LB-Splitter*

Communication cable *Lightbar-Interfacecable*

Technical data

Model	40	50	60	70	80	90	100	110	120	130	140	150	160
Recom. for tank length [cm]	39-50	49-60	59-70	69-80	79-90	89-100	99-110	109-120	119-130	129-140	139-150	149-160	159-170
Max. power draw undimmed [W]	23,5	30,0	36,5	43,0	50,0	56,5	63,0	70,0	77,0	84,0	90,5	98,5	105,5

Width x length = 86 mm x 25 mm

Environmental conditions during operation

Temperature	0 - 40°C (32 - 104°F)
Max. relative humidity	95% RH non-condensing
Protection class	**IP67 - temporarily submersible, permanent submersion not allowed! No permanent splash water!**

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