

Recommended equipment

Time switch – for the reset which starts the dim sequence.

Function

The Dimmcontroller has to be connected to your aquaLEDs.de Connector-Box. After the controller is getting power from the power supply it will start the adjusted dim sequence.

After finishing the dim sequence the moonlight will continue lighting. So you can let the moonlight light until the next morning. Else you have to stop it by using the time switch.

At the next morning the time switch has to be off for minimum 1 minute. After getting power again the controller will instantly start with the next dim sequence and the moonlight after ending this sequence. Therefore the time switch is giving the time when the lighting should start to light your aquarium.



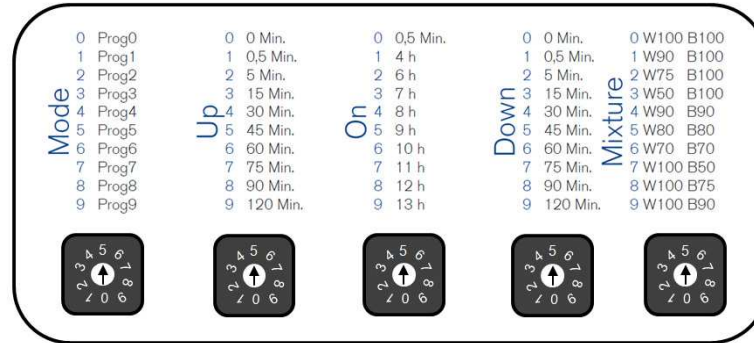
For inquiries, please contact the aquaLEDs.de UG under:

Mail: info@aquaLEDs.de

Web: www.aquaLEDs.de

Thank you for your confidence and have fun with the LED-Lighting!

Dimmcontroller



Mixture
White and Blue

+ Time for **dimming down**

+ Time for **max. illumination**

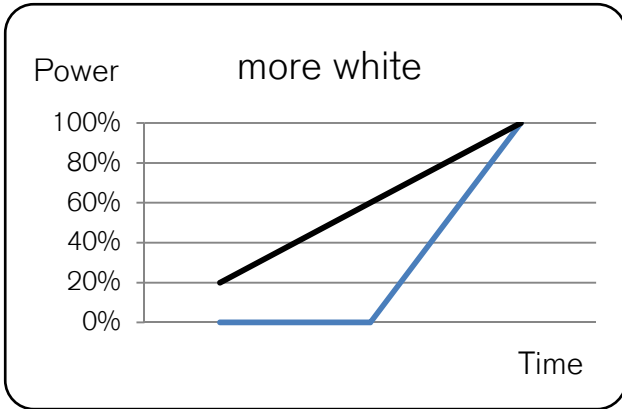
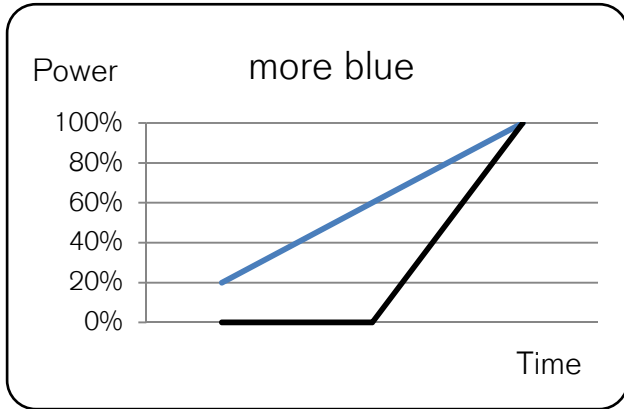
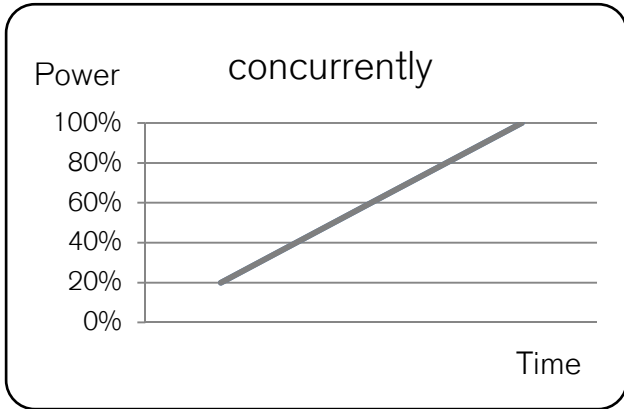
+ Time for **dimming up**

= **Whole lighting time**

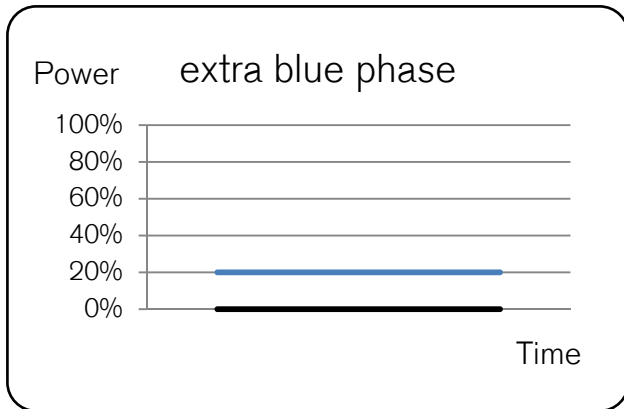
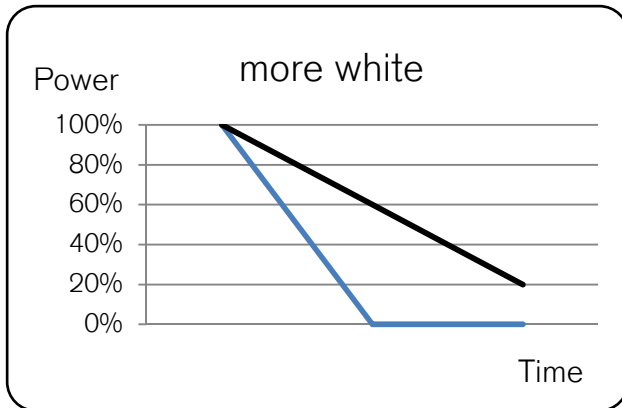
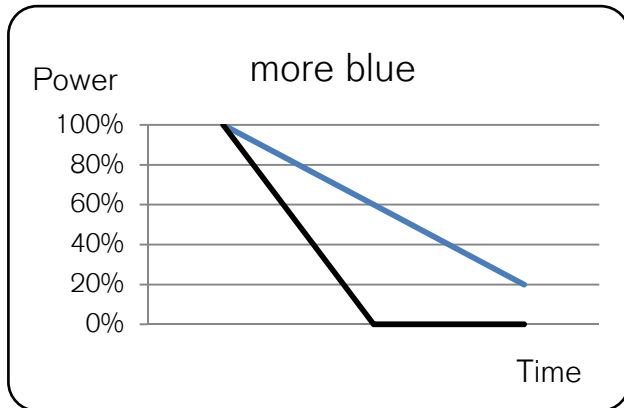
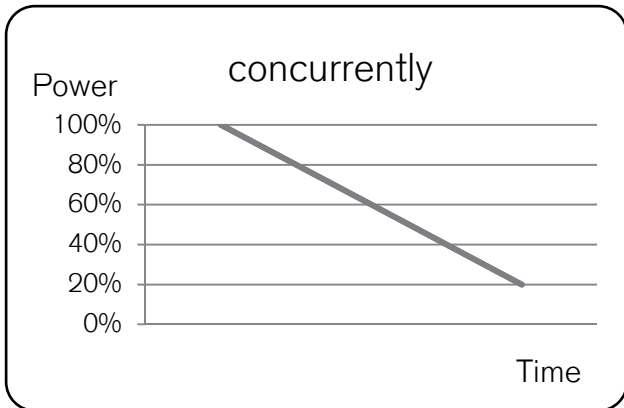
Possible dim sequences

Mode	dimming up				dimming down			
	extra blue phase	concurrently	more blue	more white	concurrently	more blue	more white	extra blue phase
Prog0		x			x			
Prog1			x			x		
Prog2				x			x	
Prog3	15 min.	x			x			15 min.
Prog4	15 min.		x			x		15 min.
Prog5				x		x		
Prog6			x				x	
Prog7			x			x		15 min.
Prog8	30 min.		x			x		30 min.
Prog9	Demonstration mode							

dimming up



dimming down



-  Blue dim channel
-  White dim channel
-  Both dim channels



aquaLEDs.de UG

Mail: info@aquaLEDs.de

Web: www.aquaLEDs.de

If there are **more cables** out of your Dimmcontroller, the cable with the black ring is the **master** which provides the power for the Dimmcontroller.

The Dimmcontroller is getting an impulse in the morning from the external time switch over which the lighting is getting its power.

After the Dimmcontroller is getting its power it will start with the adjusted dim sequence.

After progressing its dim sequence the dim channels are dimmed down and only the moonlight will be visible.

The **moonlight** will be visible until the LED-Lighting will be out of power for over one minute (for e.g. per time switch).

The **power reconnecting will also restart** the controller as fast as it will be getting electricity in the morning.

Therefore the moonlight is on as long as the lighting works without electricity interruption. This interruption also contains a restart of the dim sequence.

A simple example for better understandings

The lighting should start **one hour dimming up** with more blue in the morning. After that the lighting should light for **10 hours** and **dim down over two hours** with more blue.

More blue dimming up means that the blue dim channel is dimming up faster than the white one. This contains stronger fluorescent effects of the corals. Therefore the blue dim channel starts.

More blue dimming down means that the blue dim channel is dimming not as fast as the white one. So there will be more blue active which supports the fluorescent effect of the corals.

Because in this example the lighting should be dimmed up with more blue and dimmed down with more blue, the Mode-Switch (**MODE**) has to be in position 1.

To set the different times the switches **UP, ON** and **DOWN** have to be used.

In this example the time for dimming up should be one hour. Because of that, UP is set on position 6.

The 10 hours of maximum luminosity are set by position 6 of the ON-Switch.

Then the lighting will start after being 11 hours on with dimming down.

Because the lighting should dim down 2 hours, the DOWN-Switch has to be on position 9.

After lighting for 13 hours the lighting will be dimmed down and only the **moonlight** is visible until the time switch removes the power.

If the moonlight should be visible the whole night, the time switch has to shut down for min. one minute at the next morning for restarting the Dimmcontroller.

Mode	Position 1:	Dim up and down with more blue.
UP	Position 6:	Dimming up in 60 minutes.
ON	Position 6:	Maximum lighting-power for 10 hours.
DOWN	Position 9:	Dimming down in 120 minutes.
MIXTURE	Position 0:	Blue and white on 100%

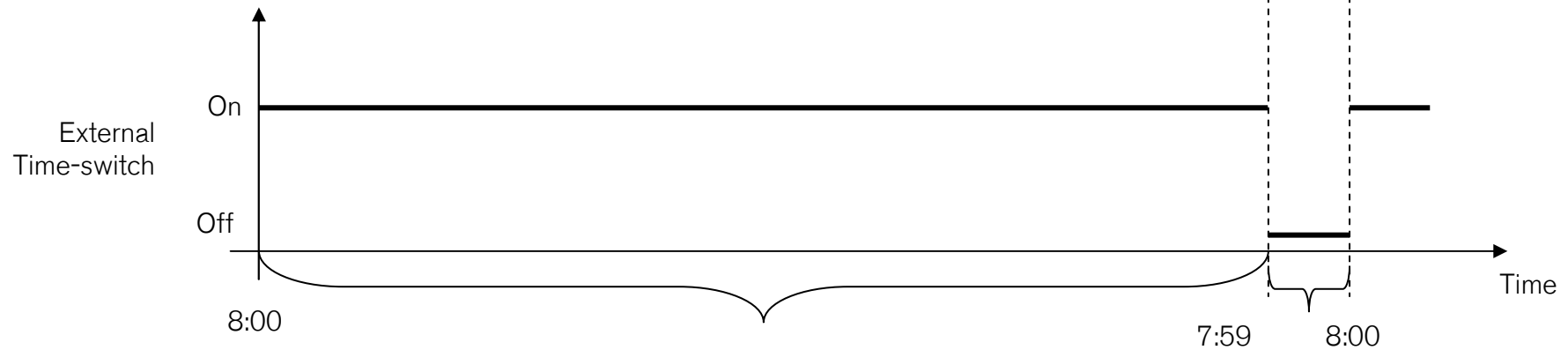
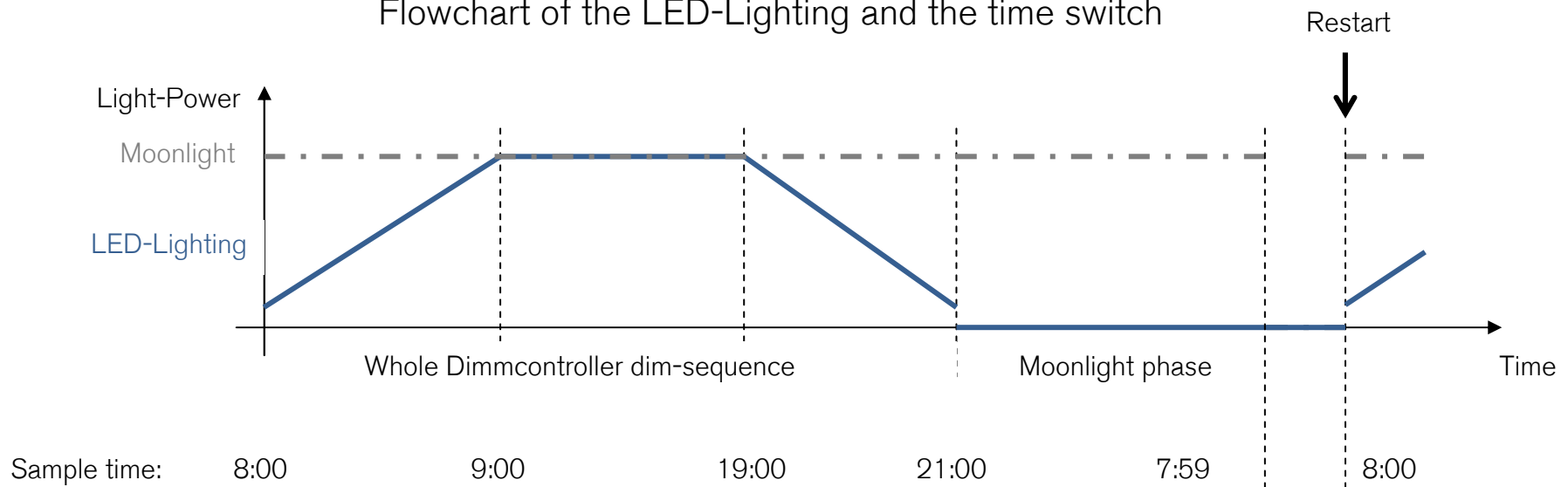
The lighting will light in this mode for 13 hours after the Dimmcontroller is getting power by the time switch.

After that the moonlight will be visible until a short break, trough the time switch, which contains a restart of the Dimmcontroller.

When the MODE-Switch is in position 3, 4, 7 or 8, an additional blue phase will be added. This is added before or after the up or down dimming time. The lighting-time will be 60 minutes longer when the mode switch is in position 8 because before and after 30 minutes will be added.

Switch-Changes will only take effect after restarting the Dimmcontroller.

Flowchart of the LED-Lighting and the time switch



aqua
LEDs.de

Time for dim sequence and added moonlight phase of the lighting.

Power will be shut down by external time switch for min. one minute to restart the Dimmcontroller.