uniLIGHT Modul BLACK.1 (HARDWARE h)

The solution for simple tasks with little space and low weight. The BLACK.1 controller is perfect for functional position, flashing, strobe/ACL lights or headlights on simple models. This is generally done even without using a channel on the remote control, but this is optionally possible.

The BLACK.1 controller is simply connected to a 2S or 3S battery (depending on the light). A pattern is selected from the large number of stored light patterns using the servo tester or receiver and then programmed with the button – after that it´s always called up automatically.

If a receiver is connected, the light pattern can be selected via the transmitter.

The simplest implementation of recognition flashers for gliders and sports models, position lighting for multicopters, headlights for position detection on jets, ... The B.1 controller can also be used as an expansion channel for all other uniLIGHT controllers. Further information on this can be found at www.unilight.at

New in this BLACK series

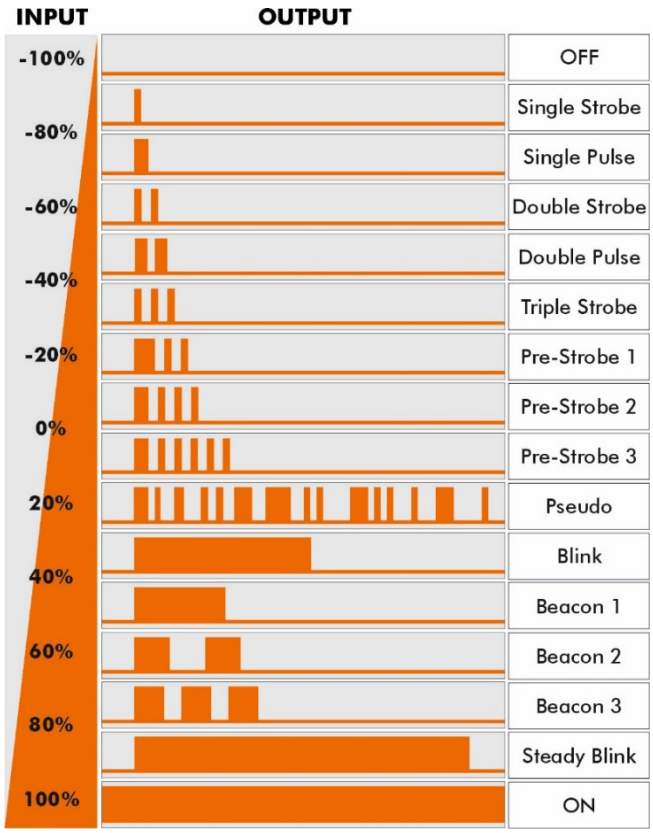
Dynamics More beautiful and sharper lighting effects

Safety Short-cut and overload protection

Battery Deep discharge protection for connected LiPo

Solo Operation with/without RC signal

Isolation Galvanically isolated light/receiver side



Programming (special function)

1. Press and hold the button and plug in the battery, when all the lights flash you can release the button
2. The output is now flashing
   1x = Special function OFF
   2x = soft switching transition activated
   3x = Basic level activated
3. To change the setting, press the button for approx. 1 second (signal on the blue status LED)

Programming light patterns

1. Connect the battery and a servo tester or similar
2. Use the servo travel to select the desired light pattern
3. Press the button to save the pattern
4. With a long press on the button you can change the speed of the pattern

NOTE Note that the OFF state is now also programmable - but the blue status LED remains on and some energy is also required. To protect the battery, the controller must be disconnected from the power supply when it is stored longer time.

Connection and programming (TX/RX)

The lighting system is usually controlled via a 3-stage switch (CONTROLLER). The easiest approach is to start from position **-1-** (middle). Change the servo center point (sub-trim) until your desired light signal is displayed.

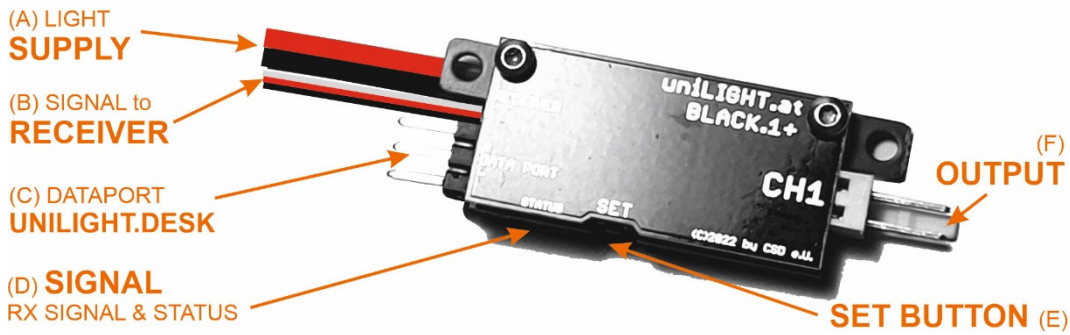
The **-0-** position with the negative final deflection (-100% and more) is the normal state for "everything off". If the center has been shifted, or if, for example, a single flash should be displayed in the basic state, then change the servo end deflection on the transmitter until the desired light signal is carried out.

Finally set the switch to position **-2-** and change the second operating mode with the servo end deflection. The landing lights or the position/navigation light are usually switched on here.

NOTE Depending on the manufacturer, the values may vary, simply adjust the path until the desired signal is displayed live.

NOTE On some systems you can also link two switches to one channel to achieve more positions. This is also possible via flight phases or switchable mixers and curve mixers.

A. Power supply light galvanically isolated
B. Receiver connection for programming optional in operation
C. PLUS Dataport
D. Receiver and Status
E. SET-STORE button
F. Output, 6A/10A



Technical Data

	MODUL-BLACK.1
Receiver control page:	4,8-9,6V
weight (without cabel):	3g
size :	45x16x5mm
current per channel/pulse current:	6A, Impuls <10A
total load until shutdown:	ca. 10A
galvanically isolated circuits:	JA
operation also with RC Signal:	JA
variable speed effects:	14+2
short circuit protection	JA
deep discharge protection	JA

Reset

Start the receiver power supply by pressing and holding the SET button for about 10 seconds. As soon as the flashing light changes to a steady light, the reset is done and the standard settings are restored.

Security features

1. In the event of a short circuit or severe overload of the output, it is switched off immediately. The blue LED blinks one times. After about 10 seconds, operation resumes if the error is no longer present.

2. In the event of undervoltage, the output is also switched off. The blue LED flashes twice. Every 10 seconds, the signaling operation resumes for a short time. Charge the battery.