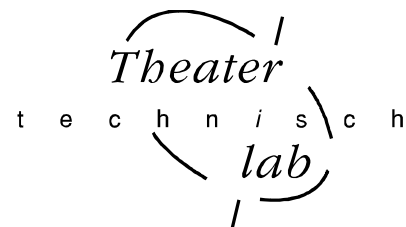


Manual CUBYdim, DimBLOCK-V3 & Dimmypack-V3

software dimblock4R4/dimmypack4R4 vanaf versie V1.1 (elektronische fuses).



Operation in general:

You determine the position of the cursor with button [select item]. Now you can set the variable (item) that corresponds with the position of the cursor. With buttons [change item] it is possible to change the value of this item.

When you change an item, it is automatically saved in the memory after 2 minutes. You can save it immediately by switching between two menus with button [select menu].

The backlight of the display starts burning for 13 seconds, when you push one of the buttons. If you want the backlight to stay on continually, you have to connect pin 1 with pin 2 on the jumper J3 on the display PCB.

When powered on the dimmer will check the mains connection and the functioning of the blower.

There are 4 LCD-menus.

1. MAIN-menu.

The display shows this menu, when you turn on the pack. When you have selected an other menu the display will return to this menu after a few minutes, automatically. The set-up possibilities are:

- Setting the DMX-pack address:
DMX-Address= 1 up and until 987 (or PackAddress= 1 t/m 987)
- Setting the grandmaster, you can dim the outputs globally:
grandmaster= 0 up and until 100% (or masterctrl.= 0 up and until 100%)

2. DIMMER-menu.

Push for this menu on button [select menu]. Adjustable dimmer items are:

- Controlcurve. This is meant to adjust the steering of your lighting control desk to the dimmer load.
If you have setup 'non-dim' for one of the dimmers the green led <nondim set> is on.
Curve= 'non-dim' (threshold= 50%)/ Linear/ '40W' (+/-40 Watt lamps)/ 'Trafo 12V'/ S-curve3/
S-curve4/ "110V" (for 110V pars).
- Preset value. You can pre-heat your pars or create a light-scene on the pack. If you have set a preset the yellow led <preset set> is on. The steering of the dimmer is equal to the highest of the DMX-steering and the preset setting:
PRESET 0 up and until 100%

3. SET-UP-menu.

Keep button [select menu] pressed for a while. The set-up possibilities are:

- Keeping the DMX-steering information or not after loosing the signal:
Hold-DMX:y/n
- Setting up a Generator Jitter Compensation. This is important in case of a portable generator. You can reduce the sensitivity of the pack for generator instability. A higher number means less sensitive. (Attention, if you select a higher GJC level, you get less possibilities to pre-heat invisible):
GJC=[0,1,2,3,4,5]
- Re-set the dimmer-pack to default (factory settings):
Reset all:n/y → Default: DMX-Address=001,GRANDMASTER=100%
Curve=linear, PRESET=0% (for all dimmers),
Hold-DMX:y, GJC=1.

4. STATUS-menu

Push button [View dimmer input and load]. Now you can select a dimmer. You can check the corresponding DMX-steering in % and you get an indication of the load in kW for the selected dimmer. You can test the dimmer; you have to press button [View dimmer input and load] again. Now you get a blackout and after a little while the original level will fade in again.

Front indications:

mains
○
power → The power for the electronic is on

nondim
○
set → You have selected 'non-dim' for at least 1 dimmer

preset
○
set → You have set a preset for at least 1 dimmer

DMX
○
present → DMX-steering signal is on

○
WARNING → Led blinks; one of the following warnings is displayed:

REPLACE FUSE 1 2 ..	A burned dimmer fuse. Replace with ceramic fuse 6,3x32mm 16A fast or 12,5A slow, with a breaking capacity of 1500A.
CHEck phase 1 2 ..	A phase is missing in the main power
OVERTemperature	The internal temperature is too high (>65 °C). The output for each dimmer is dimmed until 0% in 15 sec.. The opposite takes place when the internal temperature declines under 60 °C.
mains Connection error:Disconnect	There is one of the following mains errors: the neutral is missing, the neutral and one of the phases are exchanged or a bad earthing. Only when powered on with buzzer alarm.
Blower Blocked!! check connection	This display informs you that the blower is blocked or not connected. Check if the blower is blocked and if the blower is well connected. Only when powered on with buzzer alarm.
Short circuit on 2	This display informs you there is a short circuit situation in the circuitry connected to dimmer 2. Disconnect the load. You have to push button [View dimmer input and load] to reset the electronics
overloaded dim.! 3	This display informs you dimmer 3 is overloaded. Remove this overload. You have to push [View dimmer input and load] to reset the electronics

APPENDIX

Conventional- and electronic transformers with 12V halogen lamps

Conventional transformers:

DimBLOCK en dimmypack are basically triac-dimmers. They can handle conventional transformers. But in case of high power transformers you have to pay attention to the inrush current. There can appear a high inrush current that calls upon the shortcircuit detection. In these cases we strongly advice to use an inrush current limiter. Contact your local supplier or directly call Theater Technisch Lab for more information.

Electronic transformers:

Dimmable electronic transformers must be types that are meant for inductive loadable dimmers or dimmers based on trailing edge phase control.

Attention: Pay attention to the minimum load you have to connect to the trafo. This value is printed on the trafo. If you do not fullfill this requirement the lamps connected on that trafo are not well dimmable.

Conventional TL-lamps and stroboscopes

You cannot directly connect TL-lamps and stroboscopes on the output of dimBLOCK en dimmypack. These loads can generate enormously high voltage spikes on the output of the dimmer. These spikes can destroy the triac or driver components of the dimmer. We strongly advice the use of a voltage limiting device such as a varistor. You have to connect this component between the phase and the neutral connection of the load. Call for more info.

Triac replacement

When the output drives the load uncontrollable at 100% or 50% in most cases the corresponding triac is destroyed.

Replacement of a triac is simple. Because they are placed in a cage clamp block and not soldered! You have to remove a clamp that pushes six triac to a heat sink. So it is possible to change the triac yourself. For spare parts contact your local supplier or directly call Theater Technisch Lab for more information.

One phase connection

The dimmer can function on one phase by use of an adapter in which the three phases are tied together. In case of a not polarized wall-mounting mains outlet there is a 50% chance for an alarm signal; the dimmer has detected a potential drop between neutral and earth. In that case disconnect the dimmer from the wall outlet, turn the connector 180 degrees and put it back again.

Group circuit breaker

The group circuit breaker on which the pack is connected must have a C-characteristic curve.

RECOMMENDED FUSES:

16A 500V breaking capacity: 1500A, characteristic: fast.

12.5A, 500V breaking capacity: 1500A, characteristic: slow

FIRST DISCONNECT THE MAINS, BEFORE YOU OPEN THE DIMMER: DANGEROUS TO LIFE !!!

DimBLOCK en Dimmypack and Tripack5 are digital portable dimmers of Theater Technisch Lab:

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