

Manual Tripack5 –V2B

For software versions from V1.0

First read the manual completely, before you start to use the dimmer

Operation in general:

The position of the cursor (black blinking block in the display) can be moved to an other item in the display with button [select item]. With the buttons [<<] & [>>] you can set the variable (item) that corresponds with the position of the cursor.

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

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

There are 4 LCD-menus.

1. MAIN-menu.

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

- Setting the DMX-pack address:
DMX-ADDRESS = 1 up and until 512
- Setting the master-control, you can dim the outputs globally:
GRANDMASTER = 0 up and until 100% (default=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) / 'Trafo12V' (electronic transformer, 12Volt) / S-curve3 / S-curve4 / 110V.
- Preset value. You can pre-heat your lamps 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. (Attention: if you choose for a higher GJC level, you get less possibilities to pre-heat):
GJC = [0,1,2,3,4,5]
- Re-set the dimmer-pack to default (factory settings):
RESET ALL: n/y → Default: PackAddress=001, MASTERcntrl=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 for the selected dimmer the corresponding DMX-steering in %. To test the dimmer; you have to push button [View dimmer input and load] again. Now you get a blackout and a little while later the original level fades in.

Frontpanel indications:

| | | |
|---------------------|---|---|
| mains ○ power | → | The power for the pack 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 present |
| ○ WARNING | → | Led blinks; one of the following warnings is displayed: |

*REPLACE INTERNAL
FUSE 1A*

Indicates an internal fuse is gone. Channel1 is fused with fuse-1A&1B, channel2 with 2A&2B etc. Check the load on short circuit or broken lamp filament.

*MISSING PHASE
L2.*

Phase L2 is missing in the mains power.
Also possible: L1 and/or L3. Check the mains connection.

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 safety earth.

BLOWER BLOCKED

This display informs you that the blower is blocked. Check it out! Only at power-on with buzzer alarm.

*BLOWERFAILURE
CHECKCONNECTION*

This display informs you that the blower is possibly not connected or defective. Only at power-on with buzzer alarm.

APPENDIX

Portable Generator

In case a portable generator powers the dimmer pack we advice to set the Generator Jitter Compensation (GJC, set-up menu) on 4 or 5. Doing this a flicker free operation of the dimmer pack is more assured.

Conventional- and electronic transformers with 12V halogen lamps.

Tripack is basically a thyristor-dimmer. It 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.

Dimmable electronic transformers must be types that are meant for inductive loadable dimmers or dimmers based on trailing edge phase control. Also you have to select the control curve 'trafo12V' for that channels which are loaded with a electronic transformer

- Pay attention to the minimum load you have to connect to the trafo. This value is printed on the trafo. If you do not fulfill 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 Tripack. These loads can generate enormously high voltage spikes on the output of the dimmer. These spikes can destroy the thyristors 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.

Thyristor replacement.

When the output drives the load uncontrollable at 100% or 50% in most cases the corresponding triac is destroyed. Replacement of a thyristor is simple. Because they are placed in a cage clamp block and not soldered! You have to remove a metal clamp that presses six thyristor to a heat sink. It is possible to change the thyristor yourself, 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. In case the dimmer is connected on two phases instead of a neutral + phase (some places in België) turning the connector give no solution. You can skip the mains check by keeping button <View dimmer input and load> pressed at power-on while the LCD shows the software version .

Pre-heat

In case of flashing lamps with cold filaments there might be a change of tripping the circuit breakers. In that case it is good practice to set a 10% preset for each dimmer channel.

Group circuit breaker

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

**FIRST DISCONNECT THE MAINS, BEFORE YOU OPEN THE DIMMER: DANGEROUS TO LIFE !!!
INSTALLATION AND REPARATION BY QUALIFIED PROFESSIONALS**

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

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