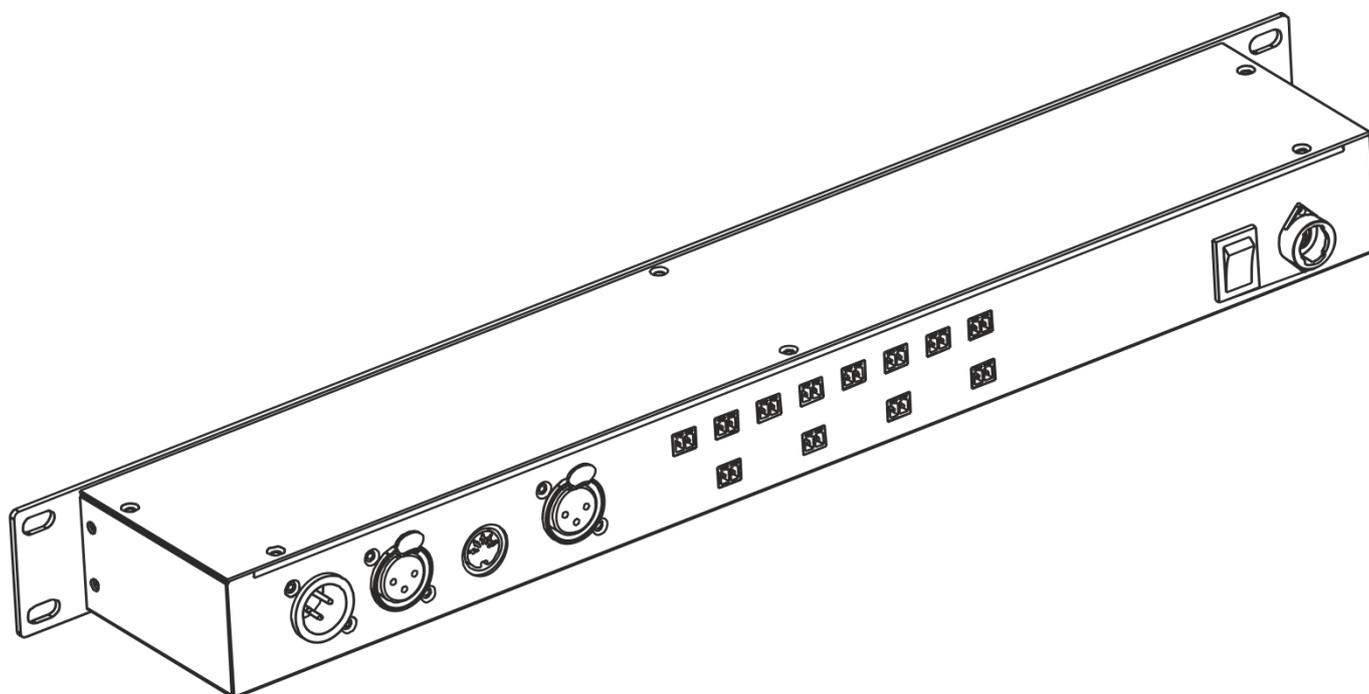




MANUAL



ENGLISH

DR Pro Rack

V1

Ordercode: 50821

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Warning



**For your own safety, please read this user manual carefully
before your initial start-up!**

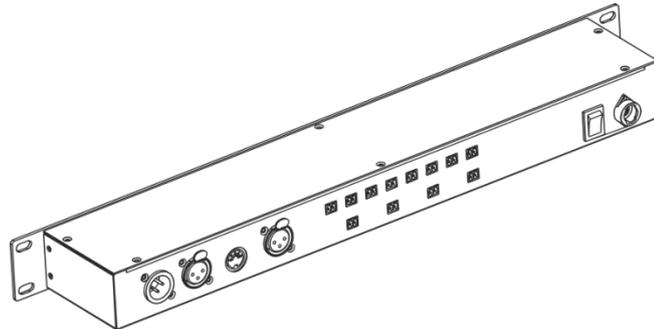


Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:

- Showtec DR Pro Rack
- DC power adapter 9V, 500 mA (1,5m)
- USB cable (0,9m)
- User manual



CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!



Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:

- be qualified
- follow the instructions of this manual



CAUTION! Be careful with your operations.
**With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires!**



Before your initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Do not touch the device's housing bare-handed during its operation. Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the lens is obviously damaged, it has to be replaced, so that its functions are not impaired due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Device must be installed out of the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- The user is responsible for correct positioning and operating of the DR Pro Rack. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- **WARRANTY:** Till one year after date of purchase.

Operating Determinations

- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The maximum ambient temperature $t_a = 40^{\circ}\text{C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40°C .
- If this device is operated in any other way, than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash etc.

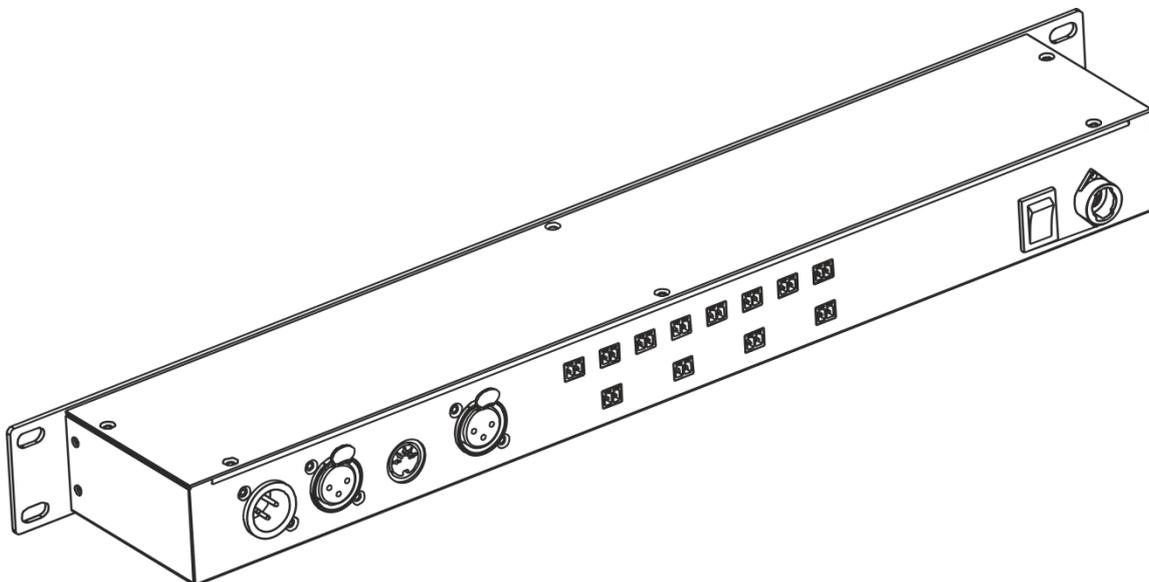
You endanger your own safety and the safety of others!

Rigging

Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !

Always let the installation be carried out by an authorized dealer !



The DR Pro Rack can be placed on a flat stage floor or mounted to a 19-inch mounting rack.

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.

Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NULL
⊕	YELLOW/GREEN	GREEN	GREEN	EARTH

Make sure that the device is always connected properly to the earth!



Return Procedure



Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail offersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:

- 01) Your name
- 02) Your address
- 03) Your phone number
- 04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features

The DR Pro Rack is a useful tool to store DMX values of complete scenes, chases or shows. The total recording time is 5 hours, shared over the 8 memory channels. The basic functions are easy to control with the direct playback buttons on the front panel, which makes it ideal for non-technical users. The unit can be locked with a password.

- Input voltage: 100-240V, 60/50 Hz
- Power supply: 9~12V DC power adapter , 500mA
- Power consumption: 5W
- Data signal: DMX/MIDI/SMPTE
- Control modes: DMX Recording Mode, Time Trigger, SMPTE/MIDI Trigger, DMX Trigger, DMX Monitor
- Internal memory: 2G
- External memory: <8G
- SD card and USB support
- Connections: 3-pin XLR IN & OUT, SD card port, 5-pin MIDI IN
- SMPTE connector: 3-pin XLR IN
- 8 memory channels for scenes, chases and shows
- 5-hour long recording time
- Control protocol: DMX-512 or DMX-1000K
- LCD display for easy setup
- IP rating: IP20
- Dimensions: 482 x 78 x 44 mm (LxWxH); 19 inch x 1HE (LxH)
- Weight: 1,2 kg

Frontside

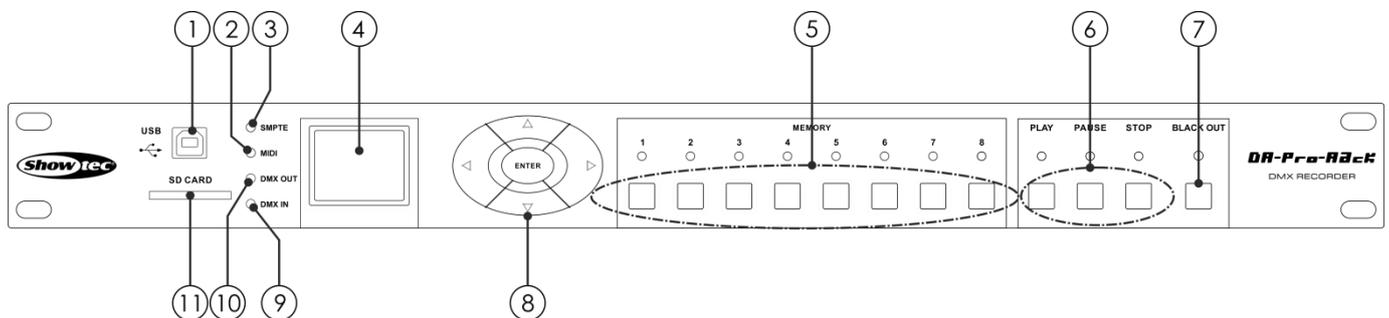


Fig. 01

- 01) **USB B connector**
This connector can be used for connecting the DR Pro Rack to your PC, in order to import/export data. The DR Pro Rack will appear as an external drive on your PC. Please note, that the file names which are to be recognized by the DR Pro Rack, should not consist of more than 8 characters.
- 02) **MIDI LED indicator**
This indicator will light up when MIDI signal is being received in the SMPTE/MIDI Trigger Mode.
- 03) **SMPTE LED indicator**
This indicator will light up when SMPTE signal is being received in the SMPTE/MIDI Trigger Mode.
- 04) **LCD display**
- 05) **Memory buttons 1-8**
Press the buttons to call up the desired memory channel in the Manual Mode.
- 06) **PLAY/PAUSE/STOP buttons**
Press the buttons to play, pause or stop your recorded data.
- 07) **BLACKOUT button**
Press the button to control DMX output in the Manual Mode.
- 08) **LEFT/RIGHT/UP/DOWN/ENTER buttons**
Press the buttons to toggle between the available options.

- 09) **DMX input LED indicator**
This indicator will light up when DMX signal is being received.
- 10) **DMX output LED indicator**
This indicator will light up when DMX signal is being sent to the other connected devices.
- 11) **SD card port**
Use this port to insert an SD card for data transmission.

Backside

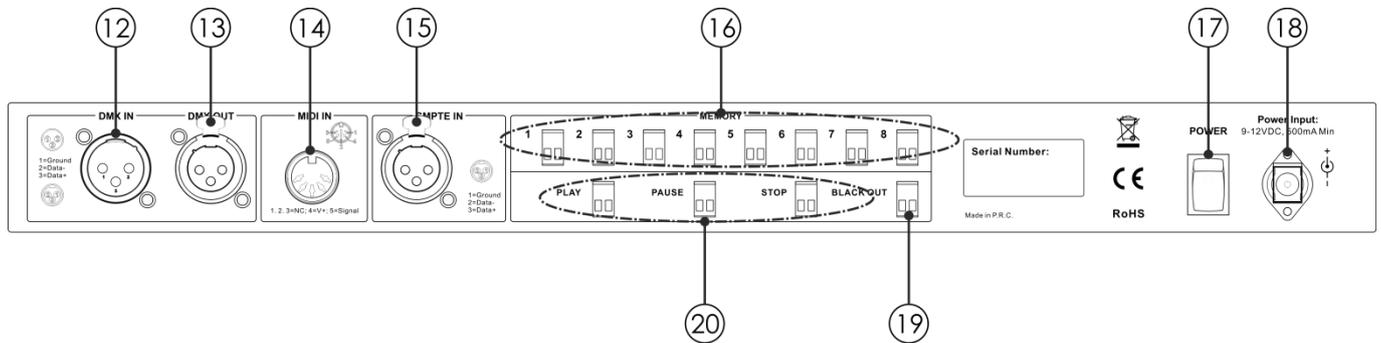


Fig. 02

- 12) **3-pin DMX signal connector IN**
Use a 3-pin XLR cable in order to send DMX data from a light controller to the DR Pro Rack.
- 13) **3-pin DMX signal connector OUT**
Use a 3-pin XLR cable in order to send DMX data from the DR Pro Rack to the connected light fixture.
- 14) **5-pin MIDI signal connector IN**
Use a 5-pin MIDI cable to connect the DR Pro Rack to a MIDI source. With you MIDI source, you are able to call up the recorded scenes, shows and chases.
- 15) **3-pin XLR SMPTE signal connector IN**
Use a 3-pin XLR cable to send SMPTE signal to the DR Pro Rack.
- 16) **2-pin memory connectors 1-8**
Connect those connectors to remote controls. In this way, it is no more needed to press the Memory buttons 1-8 (05).
- 17) **Power switch ON/OFF**
- 18) **DC 9V, 500mA power connector**
Connect the included DC 9V, 500mA power adapter.
- 19) **2-pin BLACKOUT connector**
Connect those connectors to remote controls. In this way, it is no more needed to press the BLACKOUT button (07).
- 20) **2-pin PLAY/PAUSE/STOP connectors**
Connect those connectors to remote controls. In this way, it is no more needed to press the PLAY/PAUSE/STOP buttons (06).

Installation

Remove all packing materials from the DR Pro Rack. Check that all foam and plastic padding is removed. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.

Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

There are 5 modes:

- DMX recording mode
- Time Trigger
- SMPTE/MIDI Trigger
- DMX Trigger
- DMX Monitor

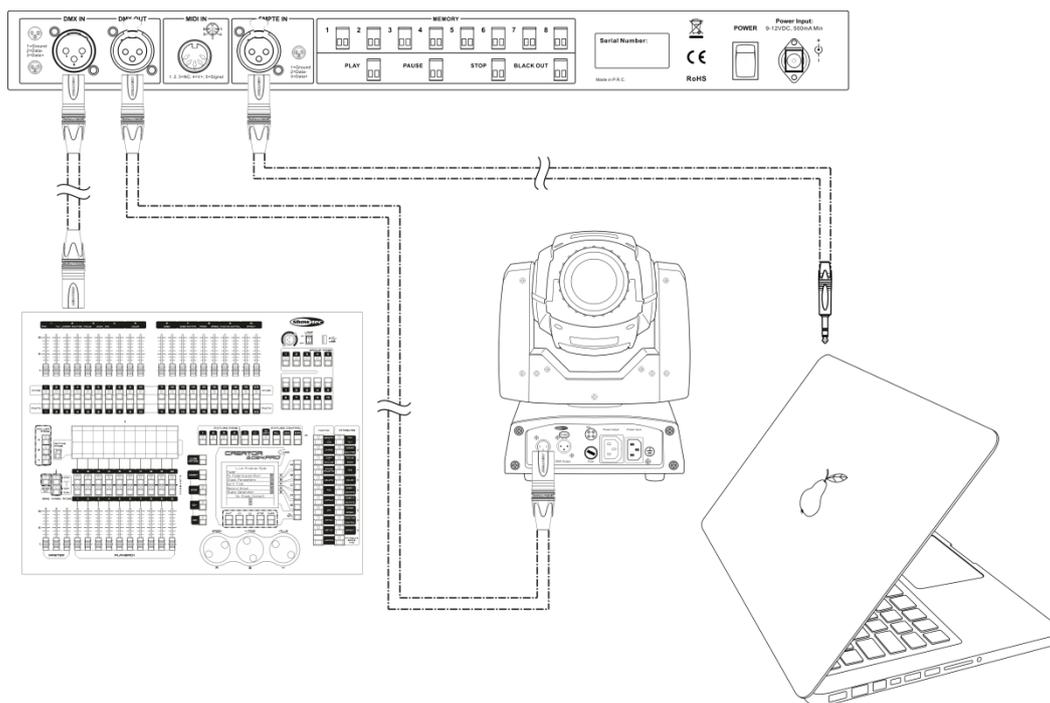


Fig. 03

Note : Link all cables before connecting electric power

Data Cabling

To link fixtures together you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. **Ordercode** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).

Start-up

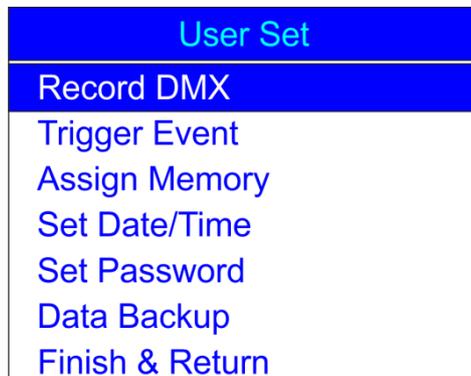
- 01) Once the device is switched on, press and hold down the **ENTER** button for 3 seconds to open the main menu. The display will show:



- 02) Press the **UP/DOWN** buttons, choose SET & MODIFY and press the **ENTER** button to open the menu. The display will show:



- 03) Press the Memory buttons **(05) in the following order: 1, 2, 3, 4**, in order to insert the password. The display will show:



1. Record DMX

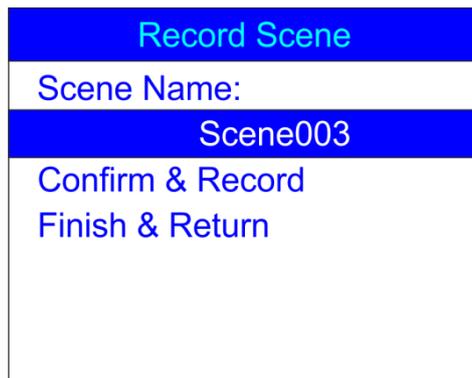
With this menu you can set the scene, show and chase recording settings.

- 01) Press the **UP/DOWN** buttons to choose Record DMX and press the **ENTER** button to open the menu.
- 02) The display will show:

**1.1 Recording scenes**

With this menu you can record scenes, which then can be used to create chases.

- 01) Press the **UP/DOWN** buttons, choose Record Scene and press the **ENTER** button to open the menu.
The display will show:



- 02) Press the **UP/DOWN** buttons to choose the name of the scene and press the **ENTER** button.
- 03) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters in order to rename your scene.
- 04) Once the scene's name has been adjusted, press the **ENTER** button to save.
- 05) Press the **UP/DOWN** buttons to choose Confirm & Record and press the **ENTER** button.
- 06) The scene has been saved.
- 07) Repeat the steps 1-6 as many times as needed.
- 08) Press the **UP/DOWN** buttons, choose Finish & Return and press the **ENTER** button to return to the previous menu.

1.2 Recording shows

With this menu you can record shows.

- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Record Show. The display will show:



- 02) Press the **ENTER** button to open the menu. The display will show:



- 03) Press the **UP/DOWN** buttons to choose the scene's name and press the **ENTER** button.
- 04) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters in order to rename your show.
- 09) Once the show's name has been adjusted, press the **ENTER** button to save.
- 05) Press the **UP/DOWN** buttons to choose Record Mode.
- 06) Press the **ENTER** button to edit the current recording mode.
- 07) Press the **UP/DOWN** buttons to select one of the following recording modes:
- 1. Manual:** In this mode, you need to press the **PLAY** button to start and the **STOP** button to stop the recording.
 - 2. Semi-Auto:** In this mode, the recording will start on its own but you still need to press the **STOP** button to stop the recording.
 - 3. Auto:** In this mode, the recording will start as soon as DMX data is received. The recording will stop when no DMX data is detected.
 - 4. Smart:** This mode is used in combination with DMX data which undergoes changes, when being sent. Under normal circumstances, DMX data does not change.
- 08) Once you have selected the desired recording mode, press the **ENTER** button to save.
- 09) If you decide not to record any show, press the **UP/DOWN** buttons to choose Cancel & Return and press the **ENTER** button to return to the previous menu.
- 10) If you decide to record a show, press the **UP/DOWN** buttons to choose Confirm & Record and press the **ENTER** button to open the menu. The display will show:

Manual Record
Start Record
Stop & Return
Elapse:01:23
Check DMX...

- 11) Press the **UP/DOWN** buttons to choose Start Record and press the **ENTER** button to start recording.
- 12) Press the **ENTER** button again to pause the recording, and again to resume.
- 13) If the recording is completed, press the **UP/DOWN** buttons to choose Stop & Return and press the **ENTER** button to return to the previous menu.

1.3 Adding chases

With this menu you can add a chase, consisting of the previously saved scenes.

- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Add Chase. The display will show:

Record DMX
Record Scene
Record Show
Add Chase
Edit Chase
Delete Scene
Delete Show
Delete Chase
Finis & Return

- 02) Press the **ENTER** button to open the menu. The display will show:

Add Chase	
Chase Name:	
CHASE001	
Cur-Step	002/001
SCENE01.	025/026
HoldTime	00:05
FadeTime	00:05
Confirm & Save	
Finish & Return	

- 03) Press the **UP/DOWN** buttons to choose the name of the chase and press the **ENTER** button.
- 04) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters in order to rename your chase.
- 05) Once the chase's name has been adjusted, press the **ENTER** button to save.
- 06) Press the **UP/DOWN** buttons to toggle between the following options:
 - Cur-Step:** Shows the current step/total number of steps.
 - SCENE01.:** Shows the name of the current scene and the number of the current scene/total number of scenes.
 - HoldTime:** Press the **ENTER** button to edit the hold time. Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the time values. Press the **ENTER** button to save.

FadeTime: Press the **ENTER** button to edit fade time. Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the time values. Press the **ENTER** button to save.

- 07) Once all the options have been adjusted, press the **UP/DOWN** buttons to choose Confirm & Save and press the **ENTER** button to save your chase and return to the previous menu.

1.4 Editing chases

With this menu, you can edit any created chase.

- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Edit Chase. The display will show:

Record DMX
Record Scene
Record Show
Add Chase
Edit Chase
Delete Scene
Delete Show
Delete Chase
Finis & Return

- 02) Press the **ENTER** button to open the menu. The display will show:

Select Chase
Chase 001/003
CHASE001
CHASE002
CHASE003

- 03) Press the **UP/DOWN** buttons to toggle between the available chases.

- 04) Press the **ENTER** button to open the desired chase. The display will show:

Edit Chase
Chase Name:
CHASE001
Cur-Step 001/004
SCENE01. 025/026
HoldTime 00:05
FadeTime 00:05
Insert Step After
Delete Current Step
Confirm & Return

- 05) All the options work in the same way as in **Adding chases**, steps 3-7, pages 12-13.
 06) Press the **UP/DOWN** buttons to choose the name of the current scene and press the **ENTER** button to open the menu. Press the **UP/DOWN** buttons to toggle between the created scenes.
 07) Press the **UP/DOWN** buttons to choose Insert Step After and press the **ENTER** button to add the previously selected scene as a new step of the selected chase.
 08) If you want to delete a scene, press the **UP/DOWN** buttons to choose Delete Current Step and press the **ENTER** button to confirm.

- 09) If all the necessary changes have been made, press the **UP/DOWN** buttons to choose Confirm & Return and press the **ENTER** button to save changes and return to the previous menu.

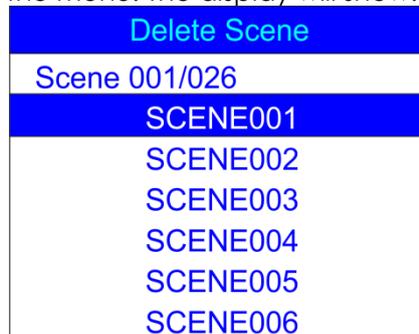
1.5 Deleting scenes

With this menu you can delete any selected scene.

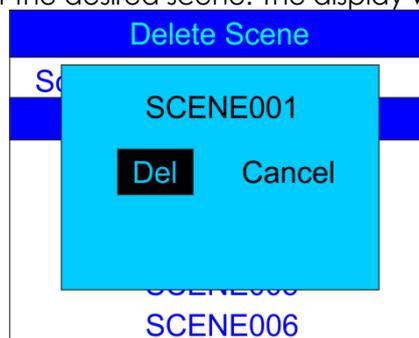
- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Delete Scene. The display will show:



- 02) Press the **ENTER** button to open the menu. The display will show:



- 03) Press the **ENTER** button to select the desired scene. The display will show:



- 04) Press the **ENTER** button to delete the desired scene or, if you want to keep the scene, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.
- 05) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

1.6 Deleting shows

With this menu you can delete any selected show.

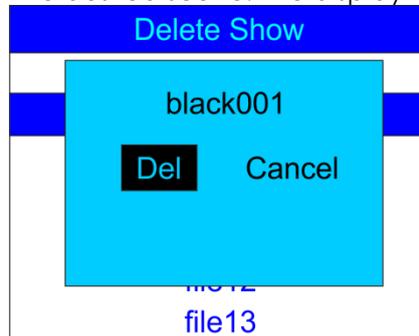
- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Delete Show. The display will show:



- 02) Press the **ENTER** button to open the menu. The display will show:



- 03) Press the **ENTER** button to select the desired scene. The display will show:



- 04) Press the **ENTER** button to delete the desired show or, if you want to keep the show, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.
- 05) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

1.7 Deleting chases

With this menu you can delete any selected chase.

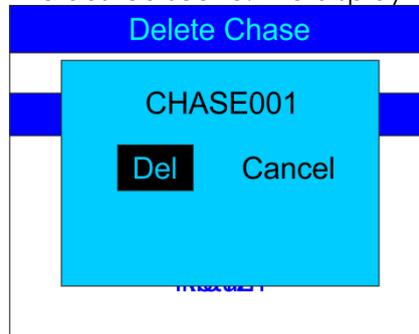
- 01) While in the Record DMX menu, press the **UP/DOWN** buttons to choose Delete Chase. The display will show:



- 02) Press the **ENTER** button to open the menu. The display will show:



- 03) Press the **ENTER** button to select the desired scene. The display will show:



- 04) Press the **ENTER** button to delete the desired chase or, if you want to keep the chase, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.
- 05) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

2. Trigger Event

With this menu you can set time events.

01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Trigger Event. The display will show:

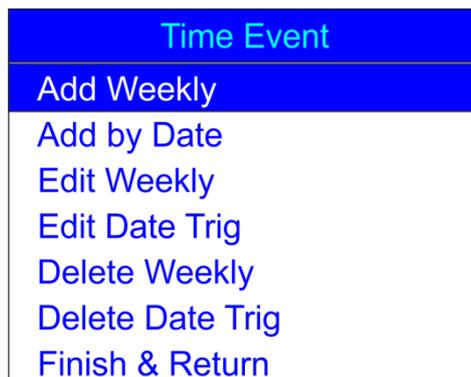


02) Press the **ENTER** button to open the menu. The display will show:

**2.1. Time Event**

With this menu you can set periods of time during which the DR Pro Rack will take the desired actions.

01) Press the **UP/DOWN** buttons to choose Time Event and press the **ENTER** button to open the menu. The display will show:



- 02) Press the **UP/DOWN** buttons to choose Add Weekly and press the **ENTER** button to open the menu. The display will show:



- 03) Press the **UP/DOWN** buttons to choose the name of the event and press the **ENTER** button to edit its name.
- 04) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters. Once the name has been adjusted, press the **ENTER** button to confirm.
- 05) Press the **UP/DOWN** buttons to choose the names of the day on which the event will take place.
- 06) Press the **ENTER** button to open the edition mode.
- 07) Press the **LEFT/RIGHT/UP/DOWN** buttons to select and deactivate/activate the desired day of the week, as well as the starting time.
- 08) Once all the changes have been made, press the **ENTER** button to confirm.
- 09) Press the **UP/DOWN** buttons to choose Trigger and press the **ENTER** button to open the menu.
- 10) Press the **UP/DOWN** buttons to choose one of the available options:
- **Memory 1-8:** choose one of the available 8 memory channels.
 - **Play Memo:** the device will play all 8 available memory channels.
 - **StopMemo:** the device will stop the memory playback.
 - **BlackOutMe:** the device will black the playback out.
- 11) Press the **UP/DOWN** buttons to choose State and press the **ENTER** button to open the menu.
- 12) Press the **UP/DOWN** buttons to choose one of the 3 options: Play/Pause/Stop.
- 13) Press the **UP/DOWN** buttons to choose Output and press the **ENTER** button to open the menu.
- 14) Press the **UP/DOWN** buttons to choose one of the 2 options: Normal or BlackOut.
- 15) Press the **ENTER** button to confirm your choice.
- 16) Once the changes have been made, press the **UP/DOWN** buttons to choose Confirm & Save and press the **ENTER** button to save the event.
- 17) Press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to return to the previous menu.
- 18) Return to step 1, press the **UP/DOWN** buttons to choose Add by Date and press the **ENTER** button to open the menu. The display will show:



- 19) Press the **UP/DOWN** buttons to choose the name of the event and press the **ENTER** button.
- 20) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters.
- 21) Once the name has been adjusted, press the **ENTER** button to confirm.
- 22) Press the **UP/DOWN** buttons to choose Date and press the **ENTER** button to open the menu.
- 23) Press the **LEFT/RIGHT/UP/DOWN** buttons to set the desired month and day.

- 24) Press the **ENTER** button to confirm.
- 25) Press the **UP/DOWN** buttons to choose Trigger and press the **ENTER** button to open the menu.
- 26) Press the **UP/DOWN** buttons to choose one of the available options:
 - **Memory 1-8:** choose one of the available 8 memory channels.
 - **Play Memo:** the device will play all 8 available memory channels.
 - **StopMemo:** the device will stop the memory playback.
 - **BlackOutMe:** the device will black the playback out.
 - **No Memory:** No memory is chosen.
- 27) Press the **UP/DOWN** buttons to choose State and press the **ENTER** button to open the menu.
- 28) Press the **UP/DOWN** buttons to choose one of the 3 options: Play/Pause/Stop.
- 29) Press the **UP/DOWN** buttons to choose Output and press the **ENTER** button to open the menu.
- 30) Press the **UP/DOWN** buttons to choose one of the 2 options: Normal or BlackOut.
- 31) Press the **ENTER** button to confirm your choice.

2.1.1 Editing time events

With this menu you can edit the previously created time events.

- 01) In Time Event menu, press the **UP/DOWN** buttons to choose Edit Weekly and press the **ENTER** button to open the menu. The display will show:



- 02) Press the **UP/DOWN** buttons to choose Select Event and press the **LEFT/RIGHT** buttons to choose the event which you want to edit.
- 03) Edition can be carried out in exactly the same way as in case of creating a weekly event (steps 1-17, pages 17-18).
- 04) Once all the changes have been made, press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to save and return to the previous menu.
- 05) Press the **UP/DOWN** buttons to choose Edit Date Trig and press the **ENTER** button to open the menu. The display will show:



- 06) Press the **UP/DOWN** buttons to choose Select Event and press the **LEFT/RIGHT** buttons to choose the event which you want to edit.
- 07) The edition can be carried out in exactly the same way as in case of creating a date event (steps 18-31, pages 19-20).

08) Once all the changes have been made, press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to save and return to the previous menu.

2.1.2 Deleting time events

With this menu you can delete the previously created time events.

01) In Time Event menu, press the **UP/DOWN** buttons to choose Delete Weekly and press the **ENTER** button to open the menu. The display will show:



02) Press the **UP/DOWN** buttons to select the desired weekly event.

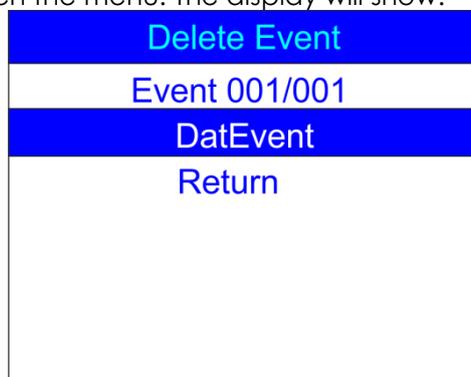
03) Press the **ENTER** button to open the menu. The display will show:



04) Press the **ENTER** button to delete the desired event or, if you want to keep the event, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.

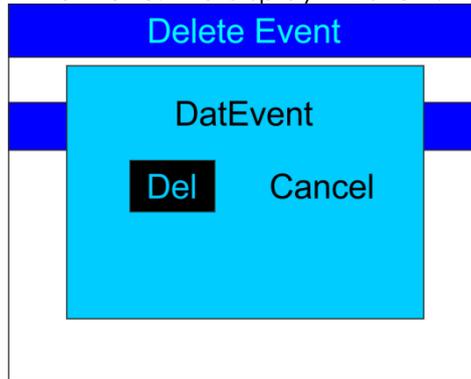
05) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

06) Return to **2.1 Time Event** step 1, page 17. Press the **UP/DOWN** buttons to choose Delete Date Trig and press the **ENTER** button to open the menu. The display will show:



07) Press the **UP/DOWN** buttons to select the desired date event.

08) Press the **ENTER** button to open the menu. The display will show:



09) Press the **ENTER** button to delete the desired event or, if you want to keep the event, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.

10) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

2.2. SMPTE/MTC Event

With this menu you can set SMPTE/MTC triggered events.

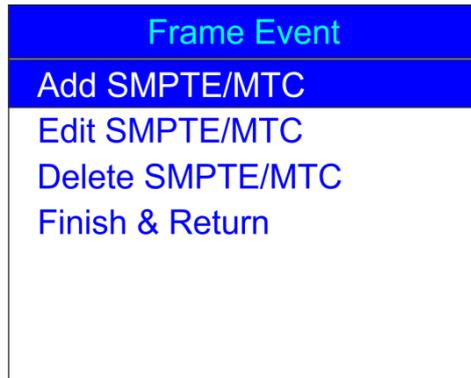
01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Trigger event. The display will show:



02) Press the **ENTER** button to open the menu. The display will show:



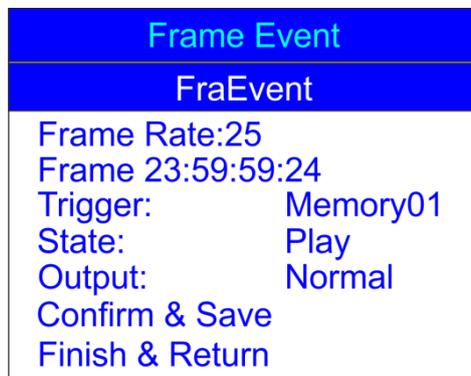
- 03) Press the **UP/DOWN** buttons to choose SMPTE/MTC Event and press the **ENTER** button to open the menu. The display will show:



2.2.1 Adding SMPTE/MTC events

With this menu you can create SMPTE/MTC events.

- 01) Press the **UP/DOWN** buttons to choose Add SMPTE/MTC and press the **ENTER** button to open the menu. The display will show:



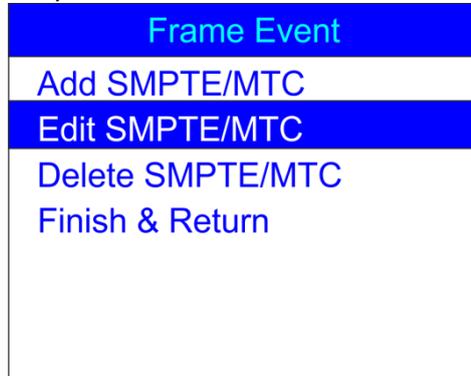
- 02) Press the **UP/DOWN** buttons to choose the name of the event and press the **ENTER** button to open the menu.
- 03) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the characters. Once the name has been adjusted, press the **ENTER** button to confirm.
- 04) Press the **UP/DOWN** buttons to choose Frame Rate and press the **ENTER** button to open the menu.
- 05) Press the **UP/DOWN** buttons to choose the desired frame rate. The adjustment range is between: 24, 25 or 30 frames/sec. Press the **ENTER** button to confirm your choice.
- 06) Press the **UP/DOWN** buttons to choose Frame and press the **ENTER** button to open the menu.
- 07) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the starting time of the event. Once the time has been set, press the **ENTER** button to confirm.
- 06) Press the **UP/DOWN** buttons to choose Trigger and press the **ENTER** button to open the menu.
- 07) Press the **UP/DOWN** buttons to choose one of the available options:
- **Memory 1-8:** choose one of the available 8 memory channels.
 - **Play Memo:** the device will play all 8 available memory channels.
 - **StopMemo:** the device will stop the memory playback.
 - **BlackOutMe:** the device will black the playback out.
 - **No Memory:** No memory is chosen.
- 08) Press the **UP/DOWN** buttons to choose State and press the **ENTER** button to open the menu.
- 09) Press the **UP/DOWN** buttons to choose one of the 3 options: Play/Pause/Stop.
- 10) Press the **UP/DOWN** buttons to choose Output and press the **ENTER** button to open the menu.
- 11) Press the **UP/DOWN** buttons to choose one of the 2 options: Normal or BlackOut.
- 12) Press the **ENTER** button to confirm your choice.
- 13) Once all the changes have been made, press the **UP/DOWN** buttons to choose Confirm & Save and press the **ENTER** button to save the event.

- 14) Press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to return to the previous menu.

2.2.2 Editing SMPTE/MTC events

With this menu you can adjust the previously created SMPTE/MTC events.

- 01) In SMPTE/MTC menu, press the **UP/DOWN** buttons to choose Edit SMPTE/MTC. The display will show:



- 02) Press the **ENTER** button to open the menu. The display will show:

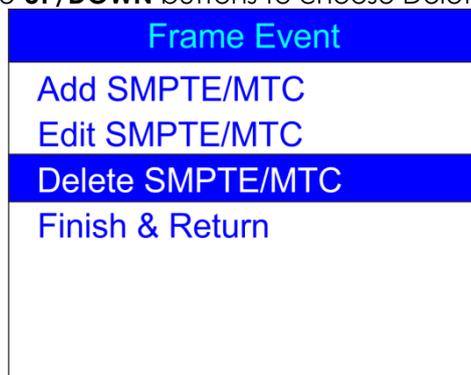


- 09) Press the **UP/DOWN** buttons to choose Select Event and press the **LEFT/RIGHT** buttons to choose the event which you want to edit.
- 10) The edition can be carried out in exactly the same way as in case of creating an SMPTE/MTC event (steps 1-13, page 22).
- 11) Once all the changes have been made, press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to return to the previous menu.

2.2.3 Deleting SMPTE/MTC events

With this menu you can delete the previously created SMPTE/MTC events.

- 01) In SMPTE/MTC menu, press the **UP/DOWN** buttons to choose Delete SMPTE/MTC. The display will show:

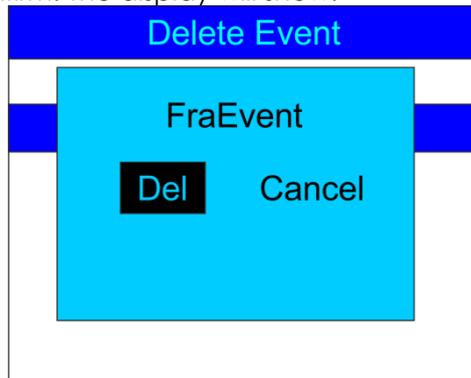


02) Press the **ENTER** button to open the menu. The display will show:



03) Press the **UP/DOWN** buttons to choose the desired event.

04) Press the **ENTER** button to confirm. The display will show:



05) Press the **ENTER** button to delete the desired event or, if you want to keep the event, press the **LEFT/RIGHT** buttons to choose Cancel and press the **ENTER** button to confirm.

06) Press the **UP/DOWN** buttons to choose Return and press the **ENTER** button to return to the previous menu.

2.3. DMX trigger

With this menu you can set the DMX/SMPTE settings of the device.

01) In Trigger Event menu, press the **UP/DOWN** buttons to choose DMX Trigger. The display will show:



02) Press the **ENTER** button to open the menu. The display will show:

DMX Trigger	
DMX Start Address:	
	001
No DMX: Manual	
No SMPTE/MIDI IN:	
Manual	
Finish & Return	

- 03) Press the **UP/DOWN** buttons to choose DMX Start Address and press the **ENTER** button to open the menu.
- 04) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the digits and set the desired DMX address. The adjustment range is between 001-510. The chosen DMX address needs to be the same as the DMX address of the connected light fixture.
- 05) Once the DMX address has been set, press the **ENTER** button to confirm.
- 06) Press the **UP/DOWN** buttons to choose No DMX and press the **ENTER** button to open the menu.
- 07) Press the **UP/DOWN** buttons to choose one of the following 4 options:
- **Manual:** Manual Mode will be chosen if there is not any DMX signal received.
 - **Timer:** Time trigger will be chosen if there is not any DMX signal received.
 - **Last Hold:** Last active mode will be chosen if there is not any DMX signal received.
 - **Black Out:** Blackout will be performed if there is not any DMX signal received.
- 08) Press the **ENTER** button to confirm your choice.
- 09) Press the **UP/DOWN** buttons to choose No SMPTE/MIDI IN and press the **ENTER** button to open the menu.
- 10) Press the **UP/DOWN** buttons to choose one of the following 4 options:
- **Manual:** Manual Mode will be chosen if there is not any SMPTE/MIDI signal received.
 - **Timer:** Time trigger will be chosen if there is not any SMPTE/MIDI signal received.
 - **Last Hold:** Last active mode will be chosen if there is not any SMPTE/MIDI signal received.
 - **Black Out:** Blackout will be performed if there is not any SMPTE/MIDI signal received.
- 11) Once all the changes have been made, press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to return to the previous menu.

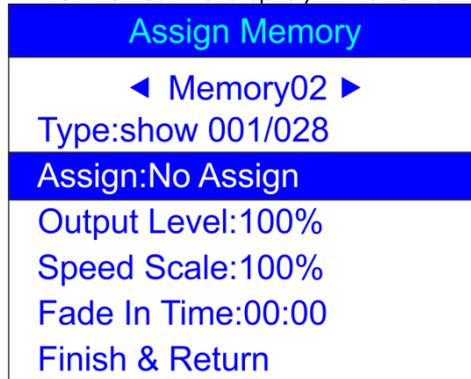
3. Assign Memory

With this menu, you can assign all the created scenes, shows and chases to the available memory channels.

01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Assign Memory. The display will show:

User Set	
Record DMX	
Trigger Event	
Assign Memory	
Set Date/Time	
Set Password	
Data Backup	
Finish & Return	

02) Press the **ENTER** button to open the menu. The display will show:

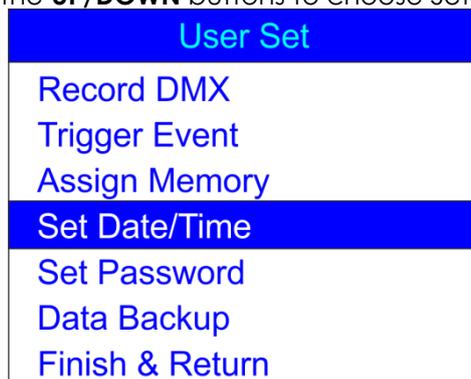


- 03) Press the **UP/DOWN** button to choose the memory name and press the **ENTER** button to open the menu.
- 04) Press the **UP/DOWN** buttons to choose one of the available 8 memory channels.
- 05) Press the **UP/DOWN** buttons to toggle between the following options:
- **Type:** Choose the group of files which you want to assign to the current memory channel (scene, show or chase).
 - **Assign:** Toggle between the created scenes, shows and chases.
 - **Output Level:** Set the output level, between 0-100%.
 - **Speed Scale:** Set the speed, between 0-100%.
 - **Fade In Time (show):** The amount of time after which the chosen show will be displayed.
 - **Fade Time (scene):** The amount of time which separates the current and the following scene.
- 06) Press the **ENTER** button to open the desired menu and press the **UP/DOWN** buttons to adjust the options.
- 07) Once all the changes have been made, press the **UP/DOWN** buttons to choose Finish & Return and press the **ENTER** button to return to the previous menu.

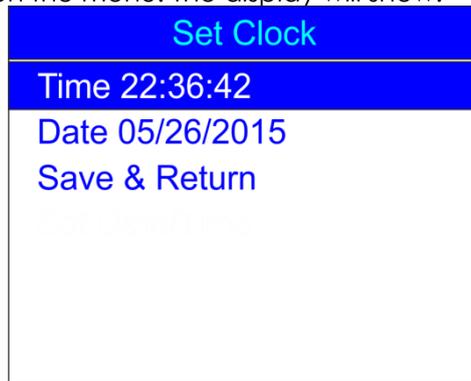
4. Set Date/Time

With this menu, you can set the current date and time.

01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Set Date/Time. The display will show:



02) Press the **ENTER** button to open the menu. The display will show:



03) Press the **UP/DOWN** buttons to toggle between the options.

04) Press the **ENTER** button to open the menu.

05) Press the **LEFT/RIGHT/UP/DOWN** buttons to select/edit the values.

06) Once the time and date are set, press the **UP/DOWN** buttons to choose Save & Return and press the **ENTER** button to return to the previous menu.

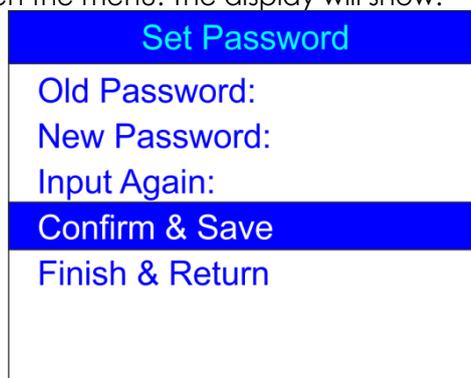
5. Set Password

With this menu, you can set the password, which you need to insert if you want to adjust the device's settings.

01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Set Password. The display will show:



02) Press the **ENTER** button to open the menu. The display will show:



03) Press the **UP/DOWN** buttons to choose Old Password and press the **ENTER** button to open the menu.

04) Insert the current password **(1,2,3,4)**.

05) The selection bar will automatically move to New Password. Now, insert the new password of your own choice.

06) The selection bar will automatically move to Input Again. Now, reinsert the new password.

07) The selection bar will automatically move to Confirm & Save. Press the **ENTER** button to save the new password.

6. Data backup

With this menu, you can make a safety backup of your created scenes, shows and chases. You can also import data from your SD card to the DR Pro Rack.

01) In SET & MODIFY menu, press the **UP/DOWN** buttons to choose Data Backup. The display will show:

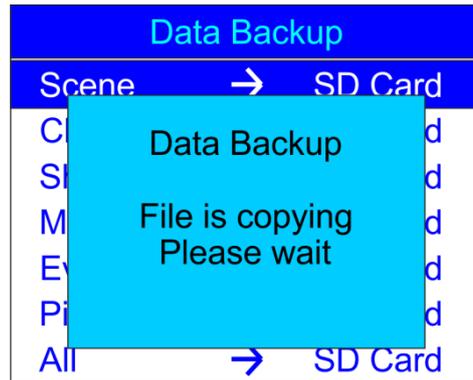
User Set
Record DMX
Trigger Event
Assign Memory
Set Date/Time
Set Password
Data Backup
Finish & Return

02) Press the **ENTER** button to open the menu. The display will show:

Data Backup		
Scene	→	SD Card
Chase	→	SD Card
Show	→	SD Card
Memory	→	SD Card
Event	→	SD Card
Picture	→	SD Card
All	→	SD Card
SD Card	→	Scene
SD Card	→	Chase
SD Card	→	Show
SD Card	→	Memory
SD Card	→	Event
SD Card	→	Picture
SD Card	→	All
Finish & Return		

03) Press the **UP/DOWN** buttons to toggle between the available options.

04) Once you have chosen the desired option, press the **ENTER** button to import/export files. The display will show:



05) The desired data is now saved.

06) Press the **UP/DOWN** buttons to choose Finish & Return to return to the previous menu.

Control Panel

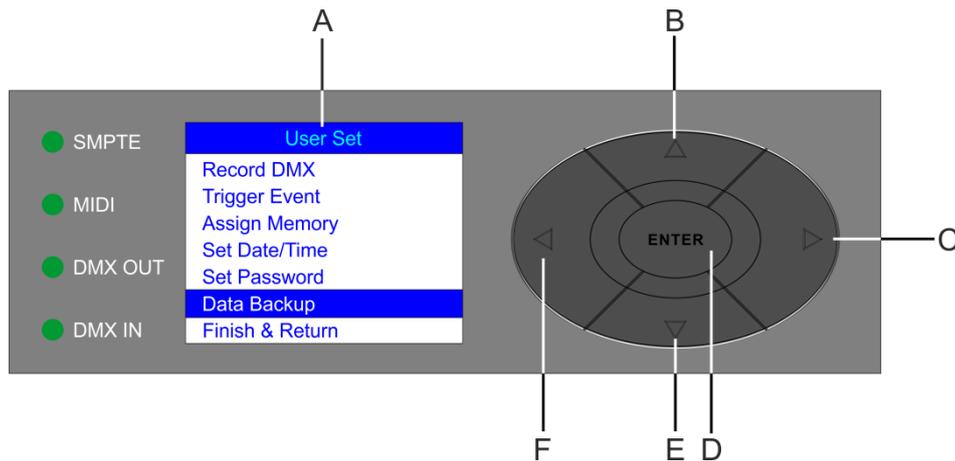


Fig. 04

- | | |
|-----------------|-----------------|
| A) LCD display | D) ENTER button |
| B) UP button | E) DOWN button |
| C) RIGHT button | F) LEFT button |

Control Mode

The fixture is individually addressed on a data-link and connected to the controller. The fixture responds to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address, next time.)

DMX Addressing

Please note, when you use the controller, the unit has **3** channels.

Controlling:

After having addressed the DR Pro Rack fixture, you may now start operating these via your light controller.

Note: After switching on, the DR Pro Rack will automatically detect whether DMX-512 data is received or not. If there is no data received at the DMX-input, the “**LED**” on the control panel will not flash.

If not, the problem may be:

- The XLR cable from the controller is not connected with the input of the DR Pro Rack.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

Note: It is necessary to insert an XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Main Menu Options

Work Mode
Manual Control
Timer Event
DMX Monitor
SMPTE/MIDI Trigger
DMX Trigger
Unit Version
SET & MODIFY

1. Manual Control
2. Timer Event
3. DMX Monitor
4. SMPTE/MIDI Trigger
5. DMX Trigger
6. Unit Version
7. SET & MODIFY

1. Manual Control

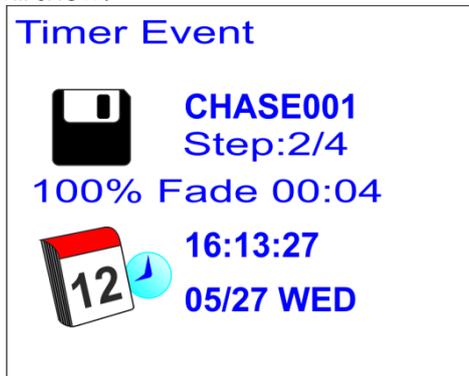
- 01) Press and hold down the **ENTER** button for 3 seconds.
- 02) In the main menu, press the **UP/DOWN** button to choose Manual Control and press the **ENTER** button to open the menu. The display will show:



- 03) Press the Memory buttons 1-8 (**05**) to call up one of the previously recorded scenes, shows or chases.
- 04) Press the **PLAY/PAUSE/STOP** buttons (**06**) to control playback of the recorded data.

2. Timer Event

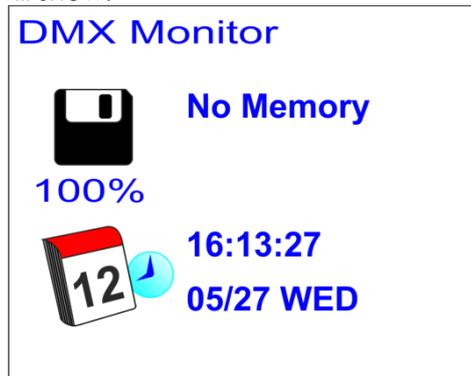
- 01) Press and hold down the **ENTER** button for 3 seconds.
- 02) In the main menu, press the **UP/DOWN** button to choose Timer Event and press the **ENTER** button to open the menu. The display will show:



- 03) The device will now playback all scheduled time events.

3. DMX Monitor

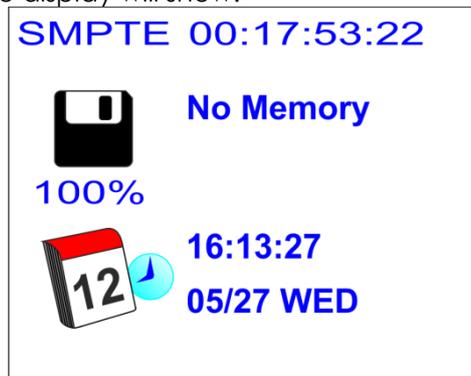
- 01) Press and hold down the **ENTER** button for 3 seconds.
- 02) In the main menu, press the **UP/DOWN** button to choose DMX Monitor and press the **ENTER** button to open the menu. The display will show:



- 03) In this mode, DMX signal is received and relayed without any alterations.

4. SMPTE/MIDI Trigger

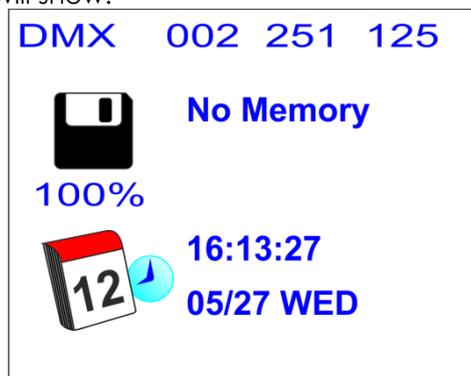
- 01) Press and hold down the **ENTER** button for 3 seconds.
- 02) In the main menu, press the **UP/DOWN** button to choose SMPTE/MIDI Trigger and press the **ENTER** button to open the menu. The display will show:



- 03) Connect the SMPTE source to the SMPTE signal output **(15)** on the DR Pro Rack.
- 04) The device is now receiving the SMPTE time code.

5. DMX Trigger

- 01) Press and hold down the **ENTER** button for 3 seconds.
- 02) Connect your DMX light controller to the DMX signal connector IN **(12)**.
- 03) In the main menu, press the **UP/DOWN** button to choose DMX Trigger and press the **ENTER** button to open the menu. The display will show:



- 04) Move the sliders on your light controller and observe how the DR Pro Rack responds to your DMX input. For more information, see full DMX chart, page 33.

6. Unit Version

- 01) Press and hold down the **ENTER** button for 3 seconds.
 02) In the main menu, press the **UP/DOWN** button to choose Unit Version and press the **ENTER** button to open the menu. The display will show the current software version:

**7. SET & MODIFY**

For detailed information, see pages 9-29.

DMX Channels**3 channels****Channel 1 – Memory channels**

0-3	Memory 1
4-7	Memory 2
8-11	Memory 3
12-15	Memory 4
16-19	Memory 5
20-23	Memory 6
24-27	Memory 7
28-255	Memory 8

Channel 2 – Playback

0-79	Pause
80-159	Play
160-255	Stop

Channel 3 – Output

0-127	Normal output
128-255	Blackout

Maintenance

The Showtec DR Pro Rack requires almost no maintenance. However, you should keep the unit clean. Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. Do not immerse in liquid. Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.

The operator has to make sure that safety-related and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

- 01) All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
- 02) There may not be any deformations on housings, fixations and installation spots.
- 03) The electric power supply cables must not show any damages or material fatigue.

Troubleshooting

No Light

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

If the light effect does not operate properly, refer servicing to a technician.

Suspect two potential problem areas as: the power supply or the LEDs.

- 01) Power supply. Check if the unit is plugged into an appropriate power supply.
- 02) The LEDs. Return your light fixture to your dealer.
- 03) If all of the above appears to be O.K., plug the unit in again.
- 04) If you are unable to determine the cause of the problem, do not open the DR Pro Rack, as this may damage the unit and the warranty will become void.
- 05) Return the device to your Showtec dealer.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

- 01) Check the DMX setting. Make sure that DMX addresses are correct.
- 02) Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
- 03) Determine whether the DMX recorder, light controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and/or the light effect to a qualified technician.

Problem	Probable cause(s)	Remedy
One or more fixtures do not function at all.	No power to the fixture.	<ul style="list-style-type: none"> • Check if power is switched on and cables are plugged in.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected. 3-pin XLR Out of the recorder does not match XLR Out of the fixture on the link (i.e. signal is reversed).	<ul style="list-style-type: none"> • Connect controller. • Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	<ul style="list-style-type: none"> • Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	<ul style="list-style-type: none"> • Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	<ul style="list-style-type: none"> • Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures. 3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	<ul style="list-style-type: none"> • Check address setting. • Install a phase-reversing cable between the fixtures or swap pins 2 and 3 in the fixture.
No light or lamp cuts out intermittently	Fixture is too hot.	<ul style="list-style-type: none"> • Allow fixture to cool down. • Make sure air vents at control panel and front lens are not blocked. • Turn up the air conditioning .
	LEDs damaged	<ul style="list-style-type: none"> • Disconnect fixture and return to your dealer.
	The power supply settings do not match local AC voltage and frequency.	<ul style="list-style-type: none"> • Disconnect fixture. Check settings and correct if necessary.

Product Specification

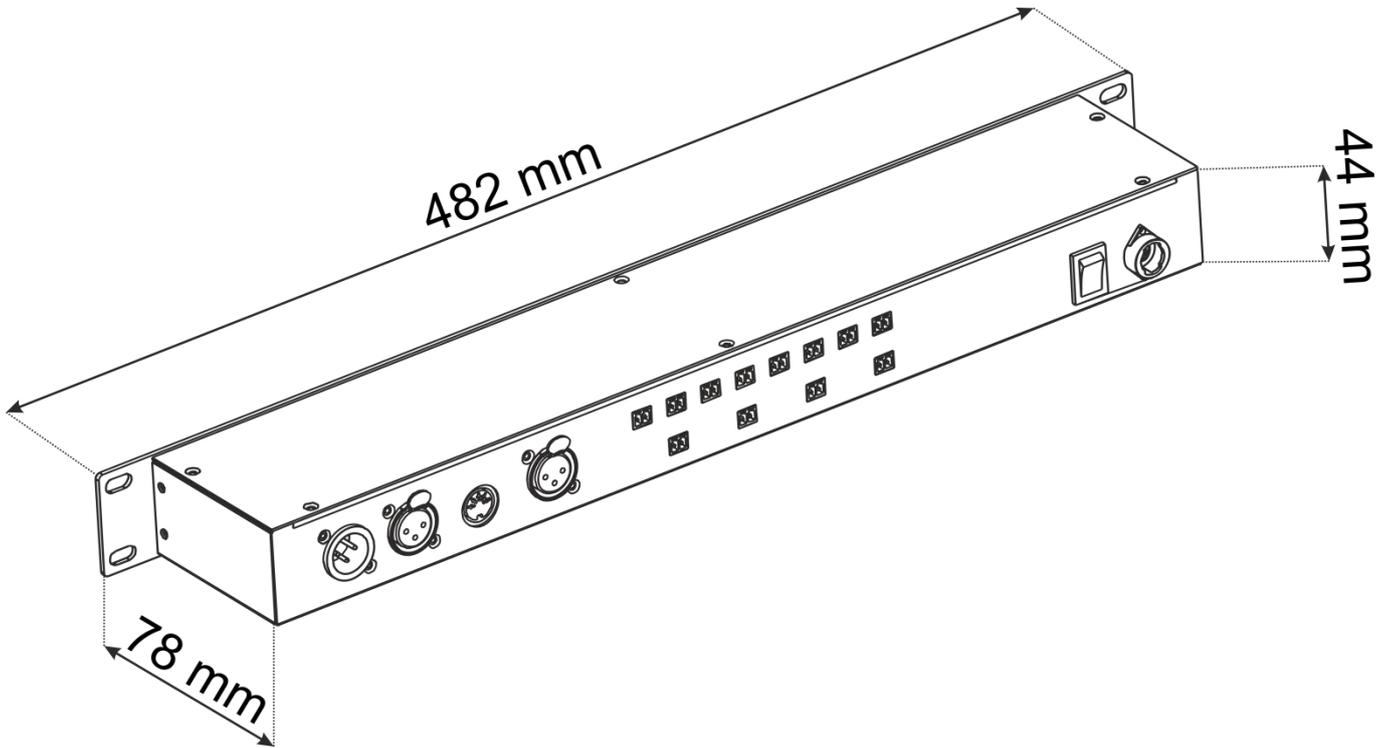
Model:	Showtec DR Pro Rack
Input Voltage:	100-240 VAC, 60/50 Hz
Power supply:	9~12V DC power adapter, 500mA
Continuous Power:	5W
Dimensions:	482 x 78 x 44 mm (LxWxH) 19 inch x 1HE (LxH)
Weight:	1,2 kg
Operation and Programming	
Signal pin OUT:	pin 1 earth, pin 2 (-), pin 3 (+)
Setup:	LCD display for easy setup
DMX channels:	3 channels
Signal input:	3-pin XLR male
Signal output:	3-pin XLR female
SMPTE input:	3-pin XLR female
MIDI input:	5-pin MIDI IN
Electro-mechanical effects	
<ul style="list-style-type: none"> • Data signal: DMX/MIDI/SMPTE • Control modes: DMX Recording Mode, Time Trigger, SMPTE/MIDI Trigger, DMX Trigger, DMX Monitor • IP20 Rating • Internal memory: 2G • External memory: <8G • 8 memory channels for scenes, shows and chases • 5-hour long recording time • SD card and USB support • Multiple mounting possibilities • DMX-control via standard DMX-controller: DMX-512 or DMX-1000K • LCD display for easy setup • Housing: grey-painted metal and ABS plastic 	
Max. ambient temperature t_a :	40°C
Max. housing temperature t_B	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5m
Minimum distance to lighted object:	1m

Design and product specifications are subject to change without prior notice.



Website: www.Showtec.info
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Dimensions





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