Show tec®

Dominator 3-in-1 Light effect   V2

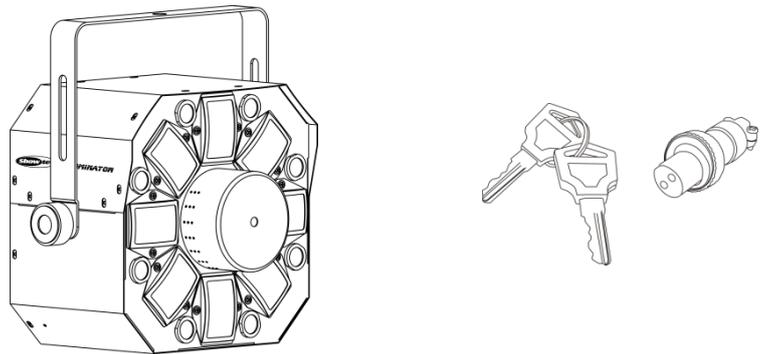**Ordercode: 43153**

Table of contents

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 Dominator
- IEC power cable 1,5 m
- Remote plug and 2 keys
- User manual

DANGER

LASER

LASER LIGHT
AVOID DIRECT EYE EXPOSURE
CLASS 3B LASER PRODUCT
Maximum Output CW
<500mW LD/DPSS
532/473/671nm
Classified per EN 60825-1:2001

ilda

intelligent LASER

	CAUTION! Eyedamages!!! Never look directly into the lightsource!!! Never project a single laser point!!!	

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

LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving the lifespan is of higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

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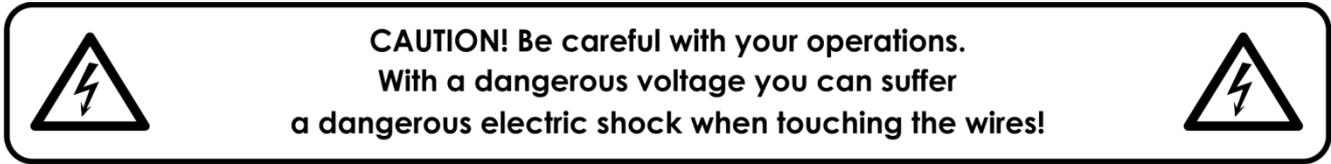
Before the initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

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 contained 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 insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not open the device and do not modify the device.
- Do not point lasers at highly reflective surfaces such as windows, mirrors and shiny metal. Even laser reflections can be hazardous.
- Do not expose the output optic (aperture) to cleaning chemicals
- Do not use laser if the laser appears to be emitting only one or two beams
- Do not use laser if housing is damaged or open, or if optics appear damaged in any way.
- Do not operate laser without first reading and understanding all safety and technical data in this manual. Never look into the laser aperture or laser beams
- After set up and prior to public use, test laser to ensure proper function. Do not use the laser if any defect is detected. Do not use, if the laser emits only one or two laser beams rather than dozens/hundreds, as this could indicate damage to the diffraction grating optic, and could allow emission of higher laser levels.
- Never aim the laser beam at people or animals!
- Never use the device during thunderstorms, unplug the device immediately.
- Never look directly into the light source.
- Never point a laser at aircraft, this is a federal offense.
- Never point un-terminated laser beams into the sky.
- Never open the laser housing. The high laser power levels inside of the protective housing can start fires, burn skin and will cause instant eye injury.
- Never expose the lens to direct sunlight, not even for a short period. This may damage the light effect or even cause fire.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- 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.

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- Avoid flames and do not put close to flammable liquids or gases.
- Always check the regulations when using a class IIIB laser product.
- Always check and position the laser before anybody enters the room, when the laser is facing an area with people.
- 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 external cable is damaged, it has to be replaced by a qualified technician.
- 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. Laser effect must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use fuses of same type and rating only.
- The operation of a class 3B laser show laser is only allowed if the show is controlled by a skilled and well-trained operator familiar with the data included in this manual.
- The user is responsible for correct positioning and operating of the Dominator. 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.
- The laser will only work between 15-35ºC.
- After 3 hours working, you must shut off the laser and let the laser diode cool off for 30 minutes, otherwise the laser could be damaged and the warranty becomes void.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

Laser Light is different from any other light source with which you may be familiar. The light from this product can potentially cause instant eye injury if not set up and used properly.

Laser light is thousands of times more concentrated than light from any other kind of light source. This concentration of light power can cause instant eye injuries, primarily by burning the retina (the light sensitive portion at the back of the eye). Even if you cannot feel "heat" from a laser beam, it can still potentially injure or blind you or your audience.
Even very small amounts of laser light are potentially hazardous even at long distances. Laser eye injuries can happen quicker than you can blink.

It is incorrect to think that because these laser products split the laser into hundreds of beams or the laser beam is scanned out in high speed, that an individual laser beam is safe for eye exposure. This laser product uses dozens of milliWatts of laser power (Class 3B levels internally). Many of the individual beams are potentially hazardous to the eyes.

It is also incorrect to assume that because the laser light is moving, it is safe. This is not true. Nor, do the laser beams always move. Since eye injuries can occur instantly, it is critical to prevent the possibility of any direct eye exposure. According to the laser safety regulation, it is not legal to aim Class 3B lasers in areas which people can get exposed. This is true even if it is aimed below people's faces, such as on a dance floor.

Laser safety for a Class 3B Laser Product

AVOID EXPOSURE
VISIBLE LASER RADIATION IS EMITTED
FROM THIS APERTURE

CAUTION: AVOID EXPOSURE TO BEAM: Avoid direct eye contact with laser light. Never intentionally expose your eyes or others to direct laser radiation.

Compliance Statement
Your Dominator Laser has been designed to comply with FDA and IEC Standards for it classification. The Dominator is a Class IIIB laser product.

Laser Safety and Compliance Information
The Dominator is manufactured to comply with the IEC 60825-1 and in accordance with U.S. Food and Drug Administration (FDA) Standards Listed under FDA Document 21 CFR 1040 and subsequent laser notices.

Product Classification and Manufacturing Label Identification
Laser Classification: Class IIIB
Cooling: TE Cooling
Laser Power: 200mW (150mW 650nm Red, 50mW 532nm Green
Beam Diameter <18mm at aperture
Pulse Data All pulses < 4Hz (>0.25sec)
Divergence (each beam) <2 mrad
Divergence (total light) <160 degrees

The legal requirements for using laser entertainment products vary from country to country. The user is responsible for the legal requirements at the location/country of use.

Further guidelines and safety programs for safe use of lasers can be found in the ANSI Z136.1 Standard "For Safe Use of Lasers", available from www.laserinstitute.org. Many local governments, corporations, agencies, military and others, require all lasers to be used under the guidelines of ANSI Z136.1. Laser Display guidance can be obtained via the International Laser Display Association, www.laserist.org.

CAUTION: The use of corrective eye wear or optics for viewing at distances such as telescopes or binoculars within a distance of 100mm may pose an eye hazard.

CAUTION – Class 3B LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM

WARRANTY VOID
If seal is broken or has been tampered with

This laser product is a Class IIIB laser and has an Interlocked housing.

There are no user serviceable parts inside. Tampering or removing warranty seals will void your products limited warranty.

Manufactured for:

LASER LIGHT
AVOID DIRECT EYE EXPOSURE
CLASS 3B LASER PRODUCT
Maximum Output CW
<500mW LD/DPSS
532/473/671nm
Classified per EN 60825-1:2001

Model

Serial Number

No user serviceable parts inside.
WARRANTY VOID
If seal is broken or has been tampered with

Date of Manufacture

CAUTION – Class 3B LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM

This product conforms with FDA 21 CFR 1000-1040 and subsequent Laser Notices.

Combo label with the Product Model Number, Serial Number, Date of Manufacturing, Laser Light Warning Label, Warranty Void Label and Interlocked Housing Label

Proper Usage Safety and Compliance Information

3 meter
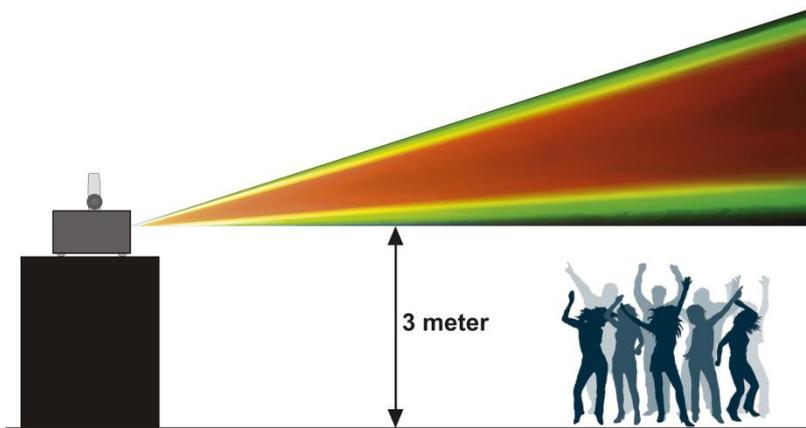
According to FDA Regulations you should operate this product as stated on the left.

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 minimum distance between light output and the illuminated surface must be bigger than 1 meter.
- The maximum ambient temperature $t_a = 35°C$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 35° 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 !

Procedure:
- If the Dominator is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Dominator, with the mounting bracket, to the trussing system.
- The Dominator must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- When rigging, derigging or servicing the Dominator, always make sure, that the area below the installation site is secured and that there are not any unauthorized people around.

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Clamp

Safety cable
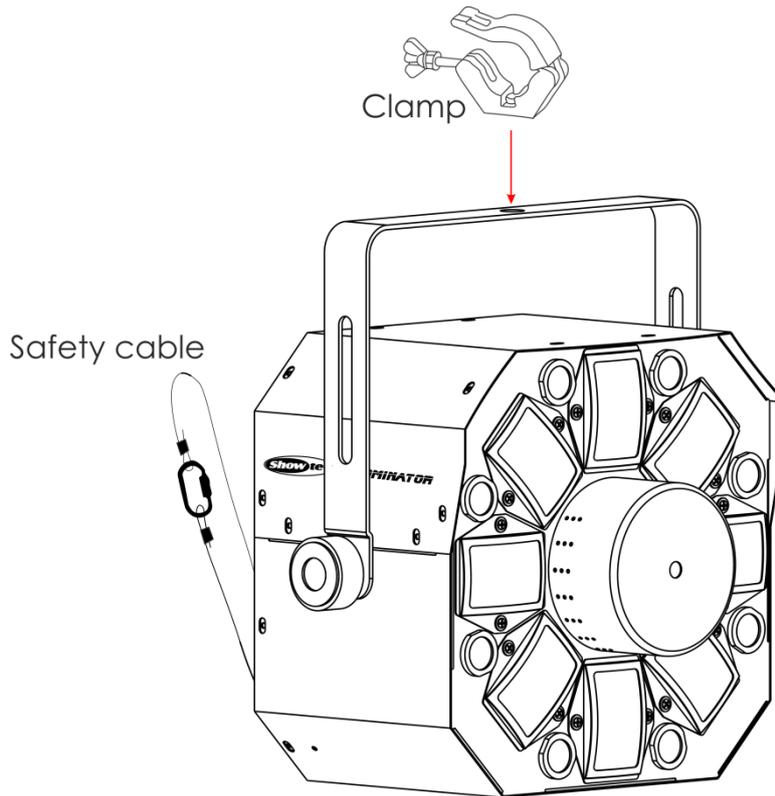
Improper installation can cause serious injuries and/or damage of property!

Connection with the mains

Connect the device to the mains with the power-plug.
Always check if 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	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

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

Improper installation can cause serious injuries and/or damage of property!

⚠ 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 aftersales@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 short-comings 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 report 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 agreed otherwise in writing.
Complaints against us must be prepared in writing or sent 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 from which the obligation is resulting.

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Description of the device

Features
The Showtec Dominator is a 3-in-1 light effect that combines 8 powerful white strobe LEDs, a 200mW RG laser module and 3W RGBWA LED effect.
- All 3 effects can be selected separately in auto or music controlled programs.
- The RG laser has many versatile grating & burst effects.
- Equipped with a key lock and remote interlock.
- The strobe has 8 sections with different pre-programmed patterns.
- All RGBWA colors can be selected individually or in many pre-programmed combinations.
- Master/slave function can be used to create a synchronized lightshow.
- Laser only works when the interlock connector is connected with a remote interlock (ordercode 51316).
- You can test if the laser works properly with the included test connector.
- If you use the laser in public area's an remote interlock is necessary for safety regulations.
- LED, Laser & Strobe Effect
- Input voltage: 100-240VAC, 50/60Hz
- Power consumption: 66W
- Control: Auto, Sound, Master/Slave, DMX
- DMX Channels: 9
- Control Display: 4 Digits LED
- Power Connection: IEC in- & output
- Data Connector: 3 pole XLR (In/Out)
- IP rating: IP-20
- Fuse: T1,6L / 250V
- Dimensions: 307 x 200 x 312 mm (incl. brackets) (LxWxH)
- Weight: 3,92 kg

LED effect
- Colors: RGBWA
- Power: 8 x 3W
- Current: 300mA each

Laser effect
- Laser Color: Red, Green
- Laser Power: 200mW (150mW 650nm Red, 50mW 532nm Green)
- Laser Class: 3B
- Safety Features: Key switch, Interlock, Safety eye
- Laser Safety: EN/IEC 60825-1 Ed 2, 2007-03

Strobe effect
- LED: 8 x 1W White Power strobe LEDs
- Current: 300mA

Optional accessories
51316 Remote Interlock

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Frontside

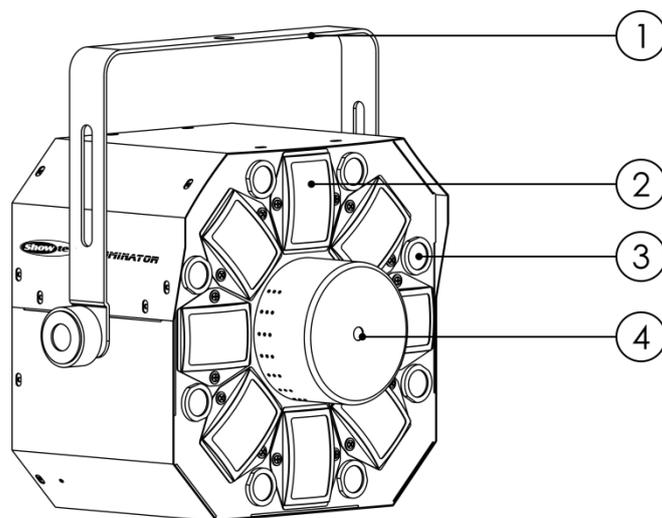**Fig. 01**

01) Mounting bracket with adjustment screws
02) 8 x 3W RGBWA LED effect
03) 8 x 1W powerful white strobe LEDs
04) 200mW RG laser module

Backside

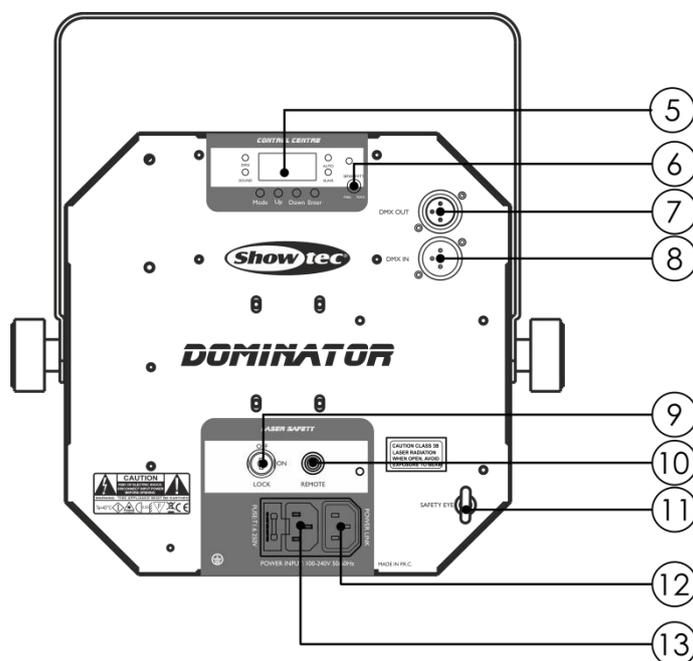**Fig. 02**

05) LED display + control buttons
06) Audio sensitivity and microphone
07) 3-pin DMX signal connector OUT
08) 3-pin DMX signal connector IN
09) Lock On/Off
10) Remote control plug
11) Safety Eye
12) IEC power connector OUT
13) IEC power connector IN with fuse T1,6L / 250V

Installation

Remove all packing materials from the Dominator 3-in-1 Light effect. Check if 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.
Connect the device to the main power supply. The device can be sound-controlled as it is equipped with a built-in microphone.

The Interlock plug/remote plug and safety keys are included in the box.
The interlock is the "included-in-the-box" successor for the optional remote interlock (51316).

⚠ **They should be kept with the Dominator !!!** ⚠

The following safety precautions should be followed:
● The remote control plug should be placed on the backside **(10)** of your Dominator.
● The keys should be put into the lock **(09)** of your Dominator.
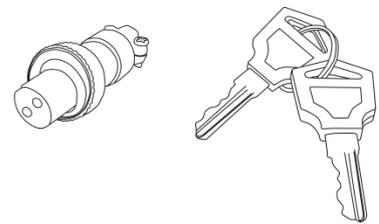
⚠ **Warning** ⚠

If the plug is not connected, your laser will not function.
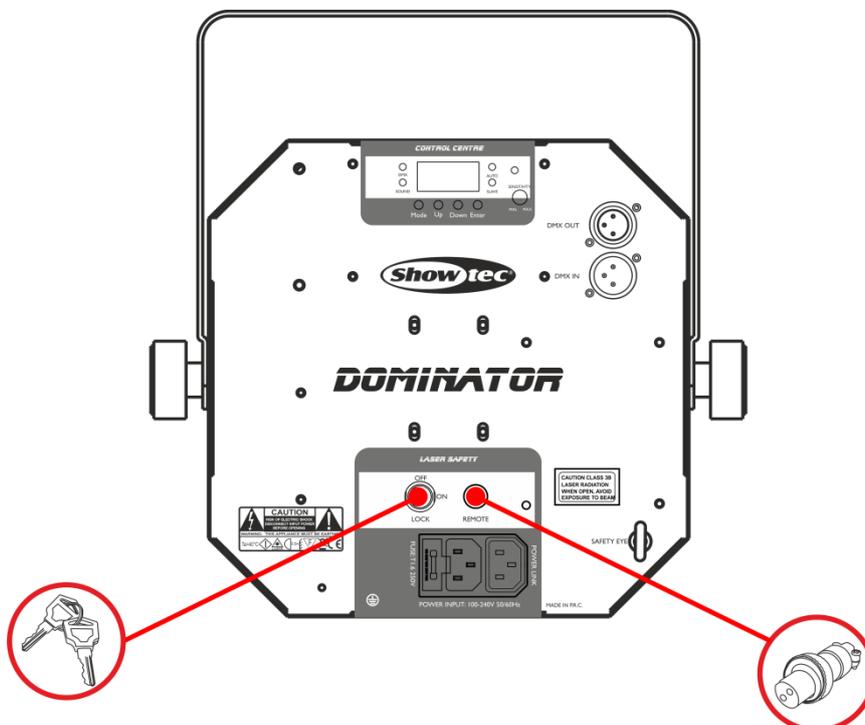If the key is not set to ON, your laser will not function.

Fig. 03

Exclusion of liability
Be aware that in some countries, there are additional regulations, regarding the use of laser devices. Therefore, we strongly advise you to verify your national laws with your authorities: We do not take any responsibility for eventual discrepancies, changes or adaptions regarding lawful use of laser devices.
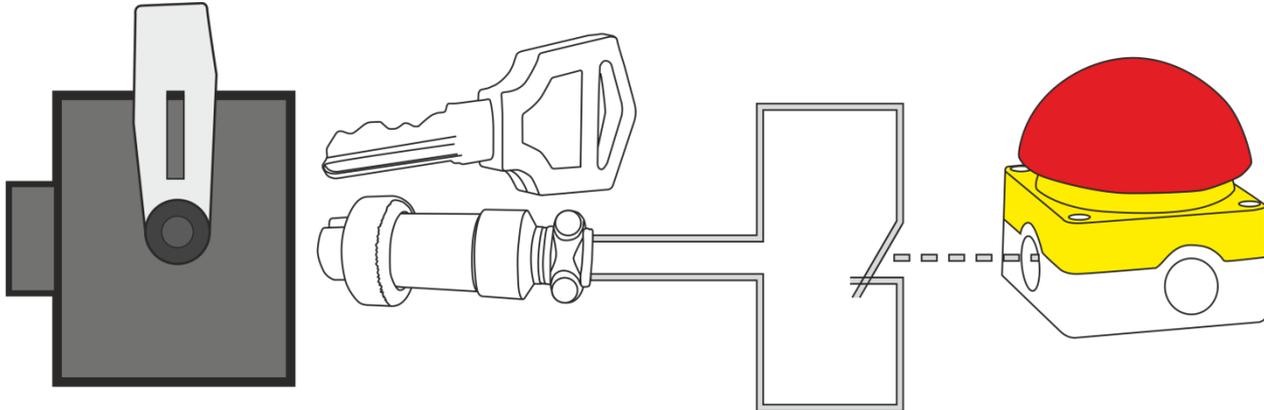
Fig. 04

Control Modes

There are 4 modes:
- Auto run
- Sound-controlled
- Master/slave
- DMX-512 (9CH)

One Dominator (Auto Run Mode)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Dominator is not connected with a DMX cable, it functions as a stand-alone device. Please see page 18 for more information about the Auto Run Mode.

One Dominator (Sound-controlled)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Turn on the music. If the device is set to sound-control, then the Dominator will react to the beat of the music. Please see page 18 for more information about the sound-control options.

Multiple Dominators (Master/Slave control)
01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Use a 3-p XLR cable to connect the Dominators and other devices.
The pins: 1. Earth
                              2. Signal (-)
                              3. Signal (+)

04) Link the units as shown in Fig. 05, connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on page 18 (Auto run, Sound-controlled). This means you can set your desired operation mode on the master device and all slave devices will react the same as the master device.
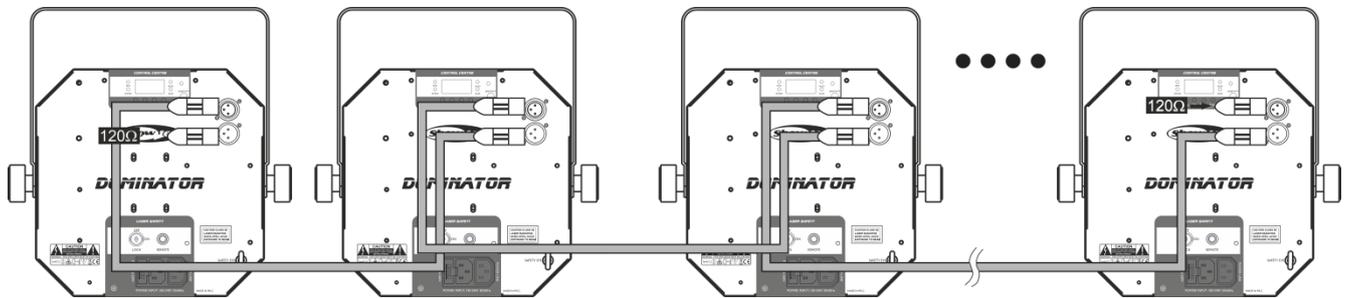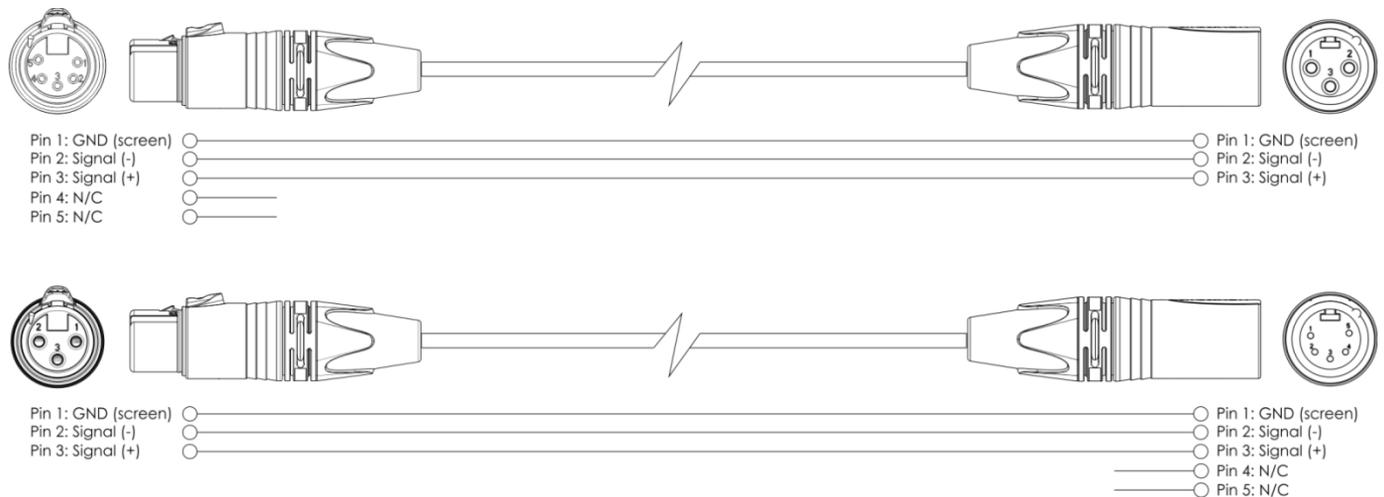
Multiple Dominators (Master/Slave control)

Fig. 05

Multiple Dominators (DMX Control)
01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Use a 3-pin XLR cable to connect the Dominators and other devices.

Pin 1: GND (screen)   Pin 1: GND (screen)
Pin 2: Signal (-)   Pin 2: Signal (-)
Pin 3: Signal (+)   Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

Pin 1: GND (screen)   Pin 1: GND (screen)
Pin 2: Signal (-)   Pin 2: Signal (-)
Pin 3: Signal (+)   Pin 3: Signal (+)
                             Pin 4: N/C
                             Pin 5: N/C

04) Link the units as shown in Fig. 06. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX-signal cable. Repeat this process to link the second, third, and fourth units.
05) Supply electric power: Plug electric mains power cords into each unit's Pro Power socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
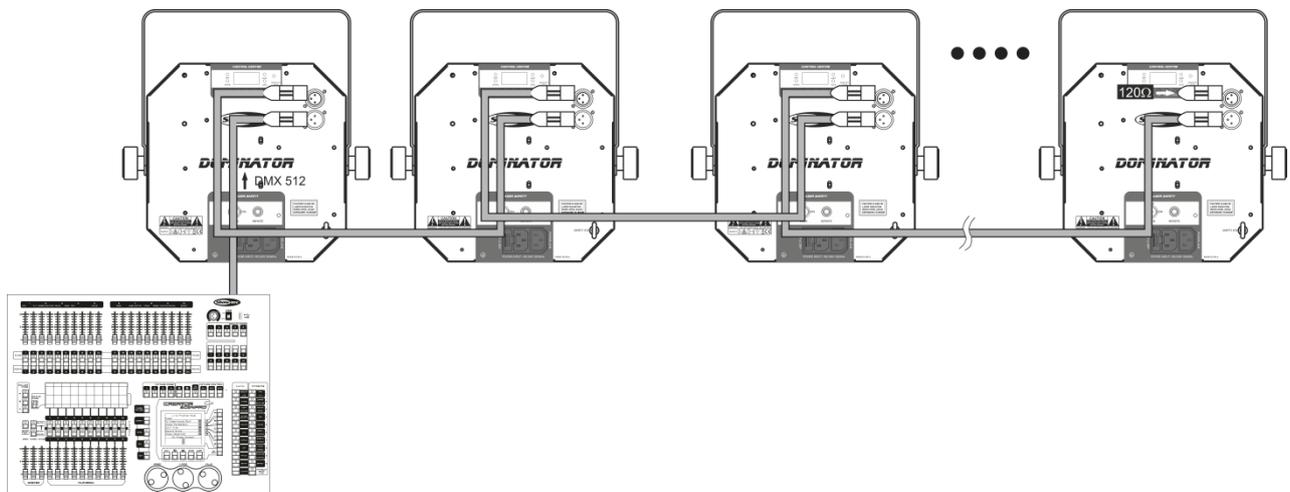
Multiple Dominators DMX Set Up

Fig. 06

Note : Link all cables before connecting electric power

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows of two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy-chained in a single line. To comply with the EIA-485 standard, no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.
Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of fixtures on a DMX data link: 30 fixtures

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).
- DAP Audio DMX adapter: 3-pin/5-pin. **Ordercode** FLA30.

The Dominator can be operated with a controller in DMX mode or without the controller in stand-alone mode.

Control Panel
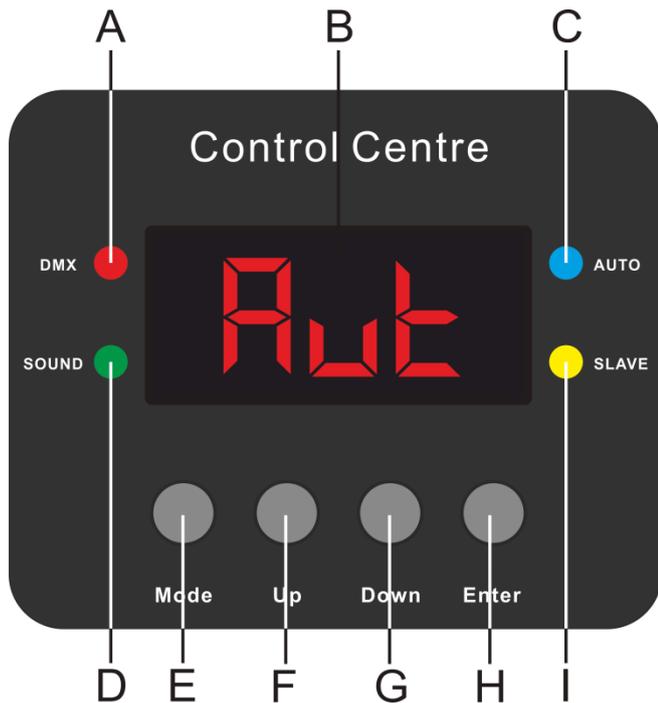
A) DMX LED
B) LED display
C) AUTO LED
D) SOUND LED
E) Mode button
F) Up button
G) Down button
H) Enter button
I) SLAVE LED

Fig. 07

Control Mode

The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond 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

The control panel on the back side of the device allows you to assign DMX fixture addresses, which is the first channel with which the Dominator will respond to the controller.
Please note, when you use the controller, the unit has **9** channels.
When using multiple Dominators, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Dominator should be **1(d001)**; the DMX address of the second Dominator should be **1+9=10 (d010**); the DMX address of the third Dominator should be **10+9=19 (d019)**, etc. Please, be sure that you do not have any overlapping channels in order to control each Dominator correctly. If two or more Dominators are addressed similarly, they will work similarly.

Controlling:

After having addressed all Dominator fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Dominator will automatically detect whether DMX 512 data is received or not.
If not, the problem may be:
- The XLR cable from the controller is not connected with the input of the Dominator.
- The controller is switched off or defective, the cable or connector is detective, 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.

Menu Overview

MODE

d001 – **d504**

Aut0 → UP-DOWN → **Aut1**

Aut2 UP/DOWN

Aut3 UP/DOWN

Aut4 UP/DOWN

Aut5 UP/DOWN

Aut6 UP/DOWN

MODE

ENTER → **S 0** – **S100**

Sou0 → UP-DOWN → **Sou1**

Sou2 UP/DOWN

Sou3 UP/DOWN

Sou4 UP/DOWN

Sou5 UP/DOWN

Sou6 UP/DOWN

SLA
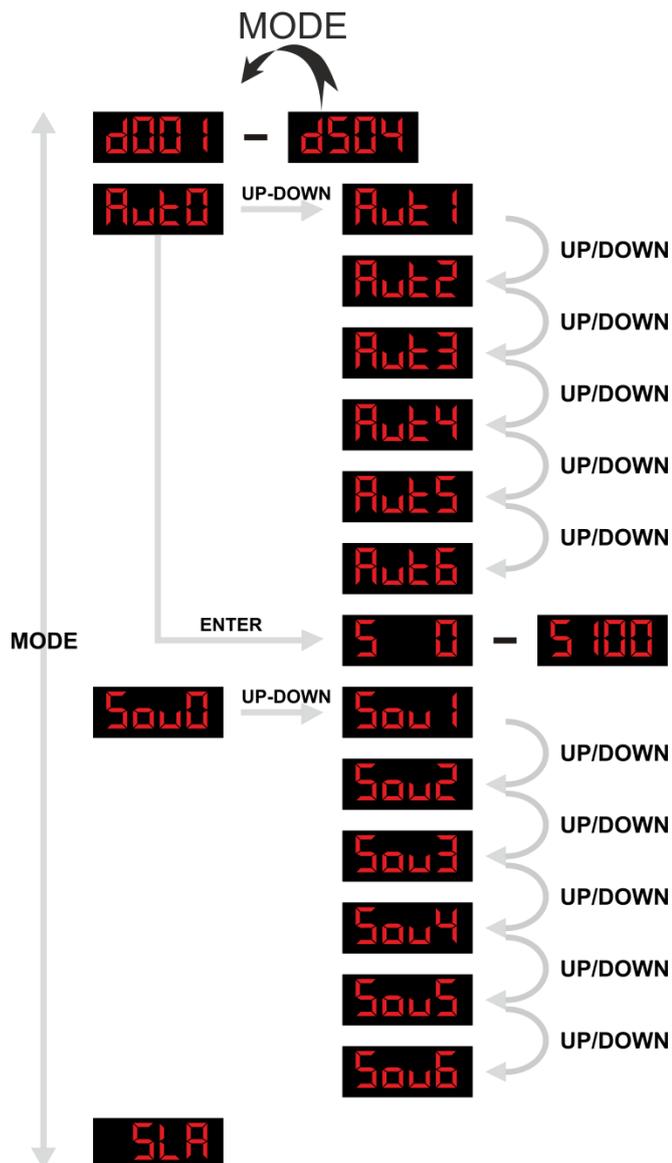
The Dominator 3-in1 will only show its version number at start-up !

U100

Main Menu Options

d001   DMX address

Aut0   Auto run

Sou0   Sound-controlled Mode

SLA   Slave mode

⚠ You can only change a certain setting when the display is blinking.
If you can't change a certain value, please press the **Mode**-button once and then change the value. ⚠

1. DMX address

With this menu you can set the DMX address.

01) Press the **Mode** button until the display shows `d001` .
02) You can choose 504 different DMX addresses.
03) Use the **Up/Down** buttons to select the required address from `d001` – `d504` .
04) Press the **Enter** button to store your setting.

2. Auto run mode

With this menu you can choose an auto run program.

01) Press the **Mode** button until the display shows `Aut0` .
02) Use the **Up/Down** buttons to scroll through the entire menu.

`Aut0`	Laser + RGBWA + 8x White LEDs
`Aut1`	Laser + RGBWA
`Aut2`	Laser + 8x White LEDs
`Aut3`	RGBWA + 8x White LEDs
`Aut4`	RGBWA
`Aut5`	Laser
`Aut6`	8x White LEDs

03) When you press the **Enter** button in Auto Mode, you can set the speed of each automatic program with the **Up/Down** buttons. The speed can be set between `S 0` – `S100` , from fast to slow.
04) Use the **Enter** button to store your setting.

3. Sound-controlled mode

With this menu you can activate the sound-controlled mode.

01) Press the **Mode** button until the display shows `Sou0` .
02) Use the **Up/Down** buttons to scroll through the entire menu.

`Sou0`	Laser + RGBWA + 8x White LEDs
`Sou1`	Laser + RGBWA
`Sou2`	Laser + 8x White LEDs
`Sou3`	RGBWA + 8x White LEDs
`Sou4`	RGBWA
`Sou5`	Laser
`Sou6`	8x White LEDs

03) The device is music-controlled by its built-in microphone. The audio sensitivity control (**6**) allows you to adjust the sensitivity of the device. A clockwise movement increases the sensitivity.
04) Use the **Enter** button to store your setting.

4. Slave Mode

With this menu you can set the device as a Slave.

01) Press the **Mode** button until the display shows `SLA`.

If the device has not been set to slave, it is automatically classified as a master device. All slave devices will follow the master movement. If the device has been set to slave, it will react the same as its master device.

DMX Channels

9 channels

Channel 1 – Built-in programs/ Sound-controlled mode

0-9	Blackout
10-24	Auto 1 (Strobe, Derby, Laser)
25-39	Auto 2 (Derby, Laser)
40-54	Auto 3 (Strobe, Laser)
55-69	Auto 4 (Derby, Strobe)
70-84	Auto 5 (Derby)
85-99	Auto 6 (Laser)
100-114	Auto 7 (Strobe)
115-129	Sound 1 (Strobe, Derby, Laser)
130-144	Sound 2 (Derby, Laser)
145-159	Sound 3 (Strobe, Laser)
160-174	Sound 4 (Derby, Strobe)
175-189	Sound 5 (Derby)
190-204	Sound 6 (Laser)
205-219	Sound 7 (Strobe)
220-255	DMX Mode

Channel 2 – Derby colors (CH1 must be set between 220-255 ⚠)

0-9	Blackout
10-14	Red
15-19	Green
20-24	Blue
25-29	Amber
30-34	White
35-39	White + Red
40-44	Red + Green
45-49	Green + Blue
50-54	Blue + Amber
55-59	Amber + White
60-64	White + Green
65-69	Green + Amber
70-74	Amber + Red
75-79	Red + Blue
80-84	Blue + White
85-89	Red + Green + Blue
90-94	Red + Green + Amber
95-99	Red + Green + White
100-104	Red + Amber + Blue
105-109	Red + Blue + White
110-114	Red + Amber + White
115-119	Amber + Green + Blue
120-124	Green + Blue + White
125-129	Amber + Green + White
130-134	Amber + White + Blue
135-139	Red + Green + Blue + Amber
140-144	Red + Green + Blue + White

145-149	Green + Blue + White + Amber
150-154	Red + Green + White + Amber
155-159	Red + Blue + White + Amber
160-164	Red + Green + Blue + White + Amber
165-209	Automatic (Single colors only)
210-255	Automatic (Two colors only)

Channel 3 – Derby speed (CH1 must be set between 220-255 and CH2 between 165-255 ⚠)

0-255	From slow to fast

Channel 4 – Strobe (CH1 must be set between 220-255 and CH2 between 10-255 ⚠)

0-4	Close
5-254	Strobe flash frequency, from fast to slow (30-0 Hz)
255	Sound-activated strobe

Channel 5 – White LEDs control (CH1 must be set between 220-255 ⚠)

0-9	Blackout
10-19	Program 1 from fast to slow
20-29	Program 2 from fast to slow
30-39	Program 3 from fast to slow
40-49	Program 4 from fast to slow
50-59	Program 5 from fast to slow
60-69	Program 6 from fast to slow
70-79	Program 7 from fast to slow
80-89	Program 8 from fast to slow
90-99	Program 9 from fast to slow
100-109	Program 10 from fast to slow
110-255	Full On All 8 LEDs

Channel 6 – Laser (CH1 must be set between 220-255 ⚠)

0-9	Blackout
10-49	Red laser
50-89	Green laser
90-129	Red + Green laser strobe separately and after each other
130-169	Green laser strobe + Red laser continuously ON
170-209	Red laser strobe + Green laser continuously ON
210-255	Red + Green laser strobe simultaneously

Channel 7 – Laser strobe (CH1 must be set between 220-255 and CH6 between 10-255 ⚠)

0-4	Blackout
5-254	Strobe flash frequency, from slow to fast (0-30 Hz)
255	Sound-activated strobe mode

Channel 8 – Rotating Derby (CH1 must be set between 220-255 and CH2 between 10-255 ⚠)

0-4	Stop
5-127	Rotate clockwise from slow to fast
128-133	Stop
134-255	Rotate counter-clockwise from slow to fast

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Channel 9 – Rotating Laser (CH1 must be set between 220-255 and CH6 between 10-255 ⚠)

0-4	Stop
5-127	Rotate clockwise from slow to fast
128-133	Stop
134-255	Rotate counter-clockwise from slow to fast

Maintenance

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) Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
04) The electric power supply cables must not show any damages or material fatigue.

The Dominator requires almost no maintenance. However, you should keep the unit clean.
Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.
The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.
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.

Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out.
If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below:
01) Unplug the unit from electric power source.
02) Insert a flat-headed screwdriver into a slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
03) Remove the used fuse. If brown or unclear, it is burned out.
04) Insert the replacement fuse into the holder. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

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.

No Light

If the light effect does not operate properly, refer servicing to a technician.
Suspect five potential problem areas as: the power supply, the laser, the White LEDs, the Derby LEDs, the fuse.
01) Power supply. Check that the unit is plugged into an appropriate power supply.
02) The laser, the White LEDs, the Derby LEDs. Return the Dominator to your Showtec dealer.
03) The fuse. Replace the fuse. See page 21 for replacing the fuse..
04) If all of the above appears to be O.K., plug the unit in again.
05) If you are unable to determine the cause of the problem, do not open the Dominator, as this may damage the unit and the warranty will become void.
06) Return the device to your Showtec dealer.

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No Response to DMX
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 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 the light
      effect to a qualified technician.

The fixture does not work, no laser and the fan does not work
01)   Check the connected power and main fuse.
02)   Check the mains voltage on the main connector.

The fixture is power on, but no laser coming out from aperture
01)   Check the laser aperture cover.
02)   Check the key switch.
03)   Check the remote interlock or interlock connector.
04)   Wait for at least 30 minutes to warm up in low temperature.
05)   Check whether it is in music mode without sound signal.
06)   Check whether it is in Slave mode.
07)   Check whether it is in DMX mode without a DMX signal being present.

The laser effect power is very weak
01)   Wait for at least 30 minutes to warm up in low temperature.
02)   Clean the scanner mirror with alcohol.
03)   Clean the aperture glass with alcohol.
04)   Check whether it is in DMX mode with a high strobe frequency.

The laser is on, but the pattern is not moving
01)   Check to see whether it is in Music/Sound mode without detecting sound signal.
02)   Check to see whether it is in DMX mode.
03)   Try to change the fixture to another stand-alone mode.
04)   Try to control the fixture via DMX to see the laser effect system.

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Problem	Probable cause(s)	Solution
One or more fixtures do not function at all	No power to the fixture	• Check if power is switched on and cables are plugged in
	Primary fuse blown.	• Replace fuse.
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected.	• Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	• 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	• 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	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	• Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	• Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture that behaves erratically
Shutter closes suddenly	The laser diode has lost its index position and the fixture is resetting the effect.	• Contact a technician for servicing the problem persists.
No light or LEDs or Laser cuts out intermittently	Fixture is too hot	• Allow the fixture to cool down • Clean the fan • Make sure air vents in control panel and the front lens are not blocked • Turn up the air conditioning
	LEDs or Laser damaged	• Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary

Product Specifications

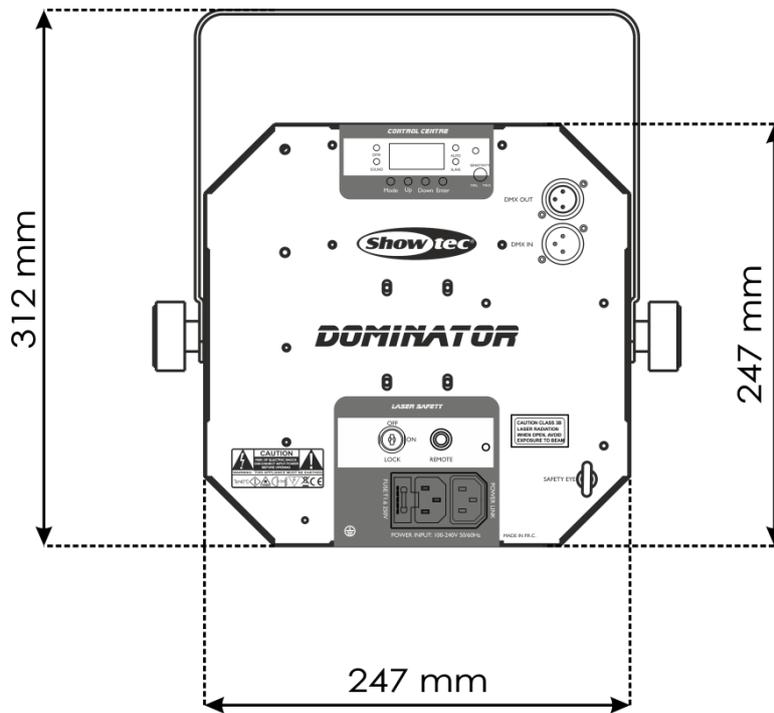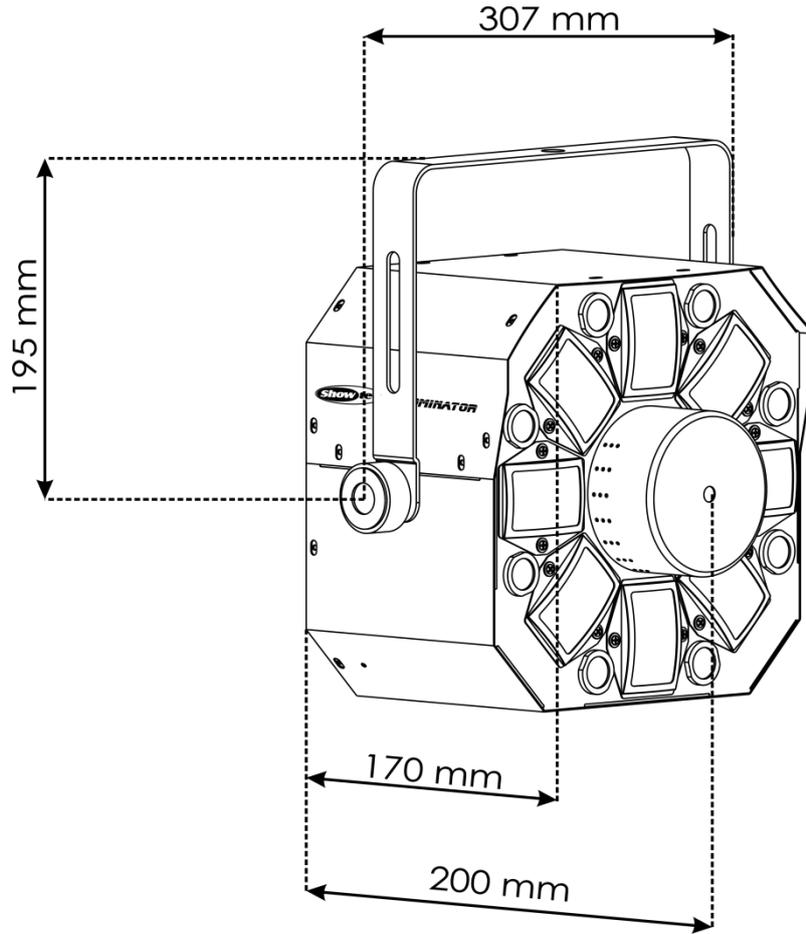|	
Model:	Showtec Dominator 3-in-1 Light effect
Input Voltage:	100-240 VAC, 50/60Hz
Power consumption:	66W (full output)
Fuse:	T1,6L / 250V
DMX linking:	30 pcs
Protection rate:	IP-20
Dimensions:	307 x 200 x 312 mm (incl. brackets) (LxWxH)
Weight:	3,92 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	9 channels
Signal input:	3-pin DMX IN
Signal output:	3-pin DMX OUT
Electro-mechanical effects:	
LED effect	
Colors:	RGBWA
Power:	8 x 3W
Current:	300mA each
Laser effect	
Laser Color:	Red, Green
Laser Power:	200mW (150mW 650nm Red, 50mW 532nm Green)
Laser Class:	3B
Safety Features:	Key switch, Interlock, Safety eye
Laser Safety:	EN/IEC 60825-1 Ed 2, 2007-03
Strobe effect	
LED:	8 x 1W White Power strobe LEDs
Current:	300mA
DMX-control:	via standard DMX-controller
On Board:	4 Digits LED for easy setup
Control:	Auto, Sound, Master/Slave, DMX
Connections:	IEC in- & output, 3 pole XLR (In/Out)
Cooling:	Cooling fan
Max. ambient temperature t_a:	35°C
Max. housing temperature t_B:	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

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

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Website: www.Showtec.info
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Dimensions

307 mm

195 mm

170 mm

200 mm

312 mm

247 mm

247 mm

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Notes