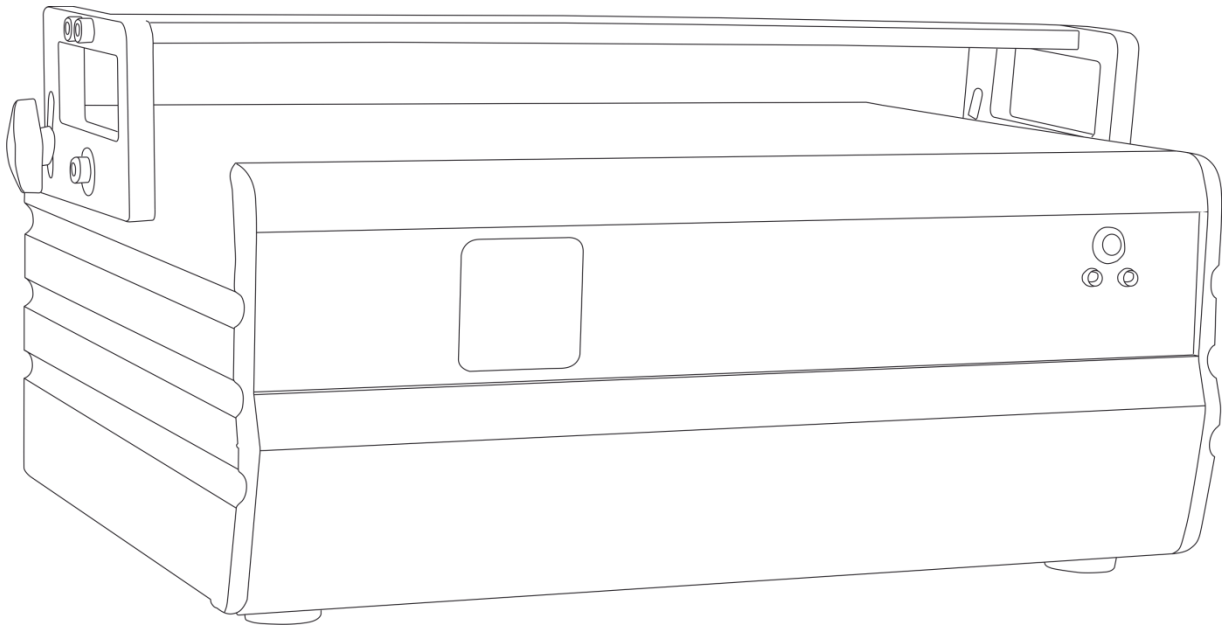
MANUAL



ENGLISH

Galactic G300 V1

Ordercode: 51332

Table of contents

Warning

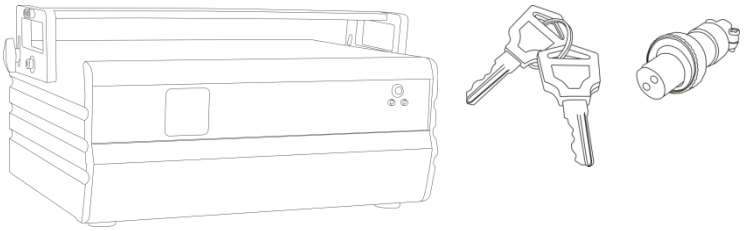
For your own safety, please read this user manual carefully before your initial start-up!

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 Galactic G300
- IEC power cable – 1,75 m
- Remote control plug
- 2 interlock keys
- User manual



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!

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 place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never aim the laser beam at people or animals!
- Never use the device during thunderstorms, unplug the device immediately.
- 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.
- 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.
- Do not switch the device on and off in short intervals, as this would reduce the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- 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.
- 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 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 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 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. 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.
- For replacement use fuses of same type and rating only.
- The operation of a class 4 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 Galactic G300. 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 15-35°C.
- 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.

CAUTION! Eyedamages!!!
Avoid looking directly into the lightsource!!!
(meant especially for epileptics)!!!

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 more than 1 meter.
- The maximum ambient temperature ta = 35°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 30° 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!

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.

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

Laser Safety and Compliance Information
The Galactic 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 and Cooling fan
Laser medium	wavelength 532 nm / Green (DPSS), 40mW
Output	300mW Green
Beam Diameter	<5mm at aperture
Scanning ILDA Standard	20Kpps
Divergence (each beam)	<2 mrad
Divergence (total light)	<90 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.

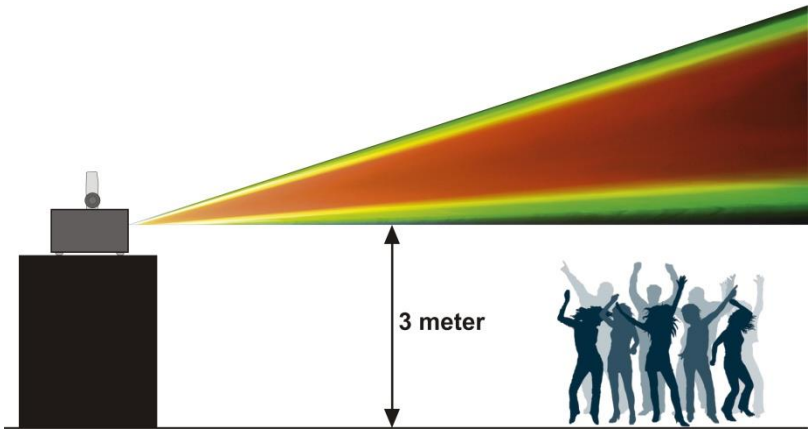
CAUTION: The use of corrective eye wear or optics for viewing at distances such as telescopes or binoculars within a distance of 100mm may pose an eye hazard.

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.

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



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

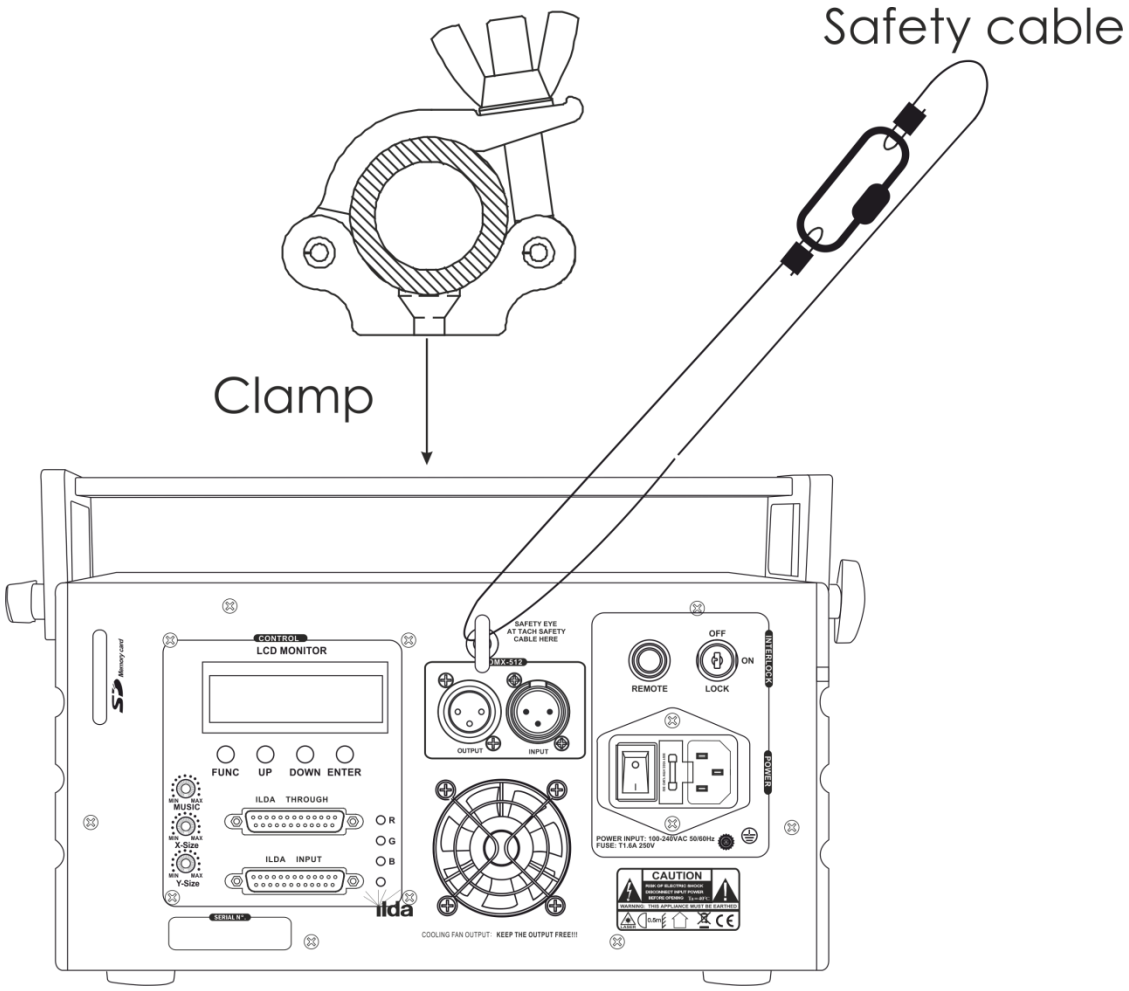
Rigging

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 Galactic is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Galactic, with the mounting-bracket, to the trussing system.
- The Galactic 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 Galactic, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.



The Galactic can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

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	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

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

Improper installation can cause serious damage to people and 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 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 Showtec Galactic G300 is a laser effect with high output and great effects.

- Green is the most impressive color for laser shows and because of the 300mW laser module this unit creates powerful beam shows
- If you like to create a more impressive show you can combine the G300 with the Showtec B1000 (51331).
- When using multiple units together, you can make a great and cost effective beam-show
- Create your own designs and shows, with any kind of ILDA laser software
- Equipped with a 20K scanner pair which makes faster and bigger projections possible with less flickering
- For rental solutions you can use the SD card slot to run pre-programmed shows without any controller
- Power Input: AC 100-240V, 50/60Hz
- Power Consumption: 38 Watt
- Scan Speed: 20K
- Beam Diameter <5mm at aperture
- Laser Class: 3B
- Laser Modulation: TTL
- Laser Safety: EN/IEC 60825-1 Ed 2, 2007-03
- Laser Power: 300mW 532nm Green
- Scan Angle: +/-40˚
- 2 x Auto Show + 2 x Music Show
- 85 Animated Graphic Show Patterns
- Auto Detected ILDA Signal Interface
- Beam, Wave, Text, Animation, Logo
- Control Modes: Auto, Sound, Master/Slave, DMX, ILDA, SD-Card
- Divergence (each beam) <2 mrad; Divergence (total light) <90 degrees
- 3-pin DMX In and 3-pin DMX Out, Sub-D 25 Pole
- Clear LCD display for all settings
- Compact strong metal housing
- Music-controlled via built-in microphone
- 13 DMX Channels
- Safety Features: Key switch, Interlock, Safety eye
- Fuse 1,6 A / 250V
- Dimensions: 385 x 310 x 165mm (LxWxH excl. bracket); Weight: 8,60 Kg

- Accessories: 2 Keys, Interlock test connector, flightcase, ILDA cable, 2Gb SD card

Overview

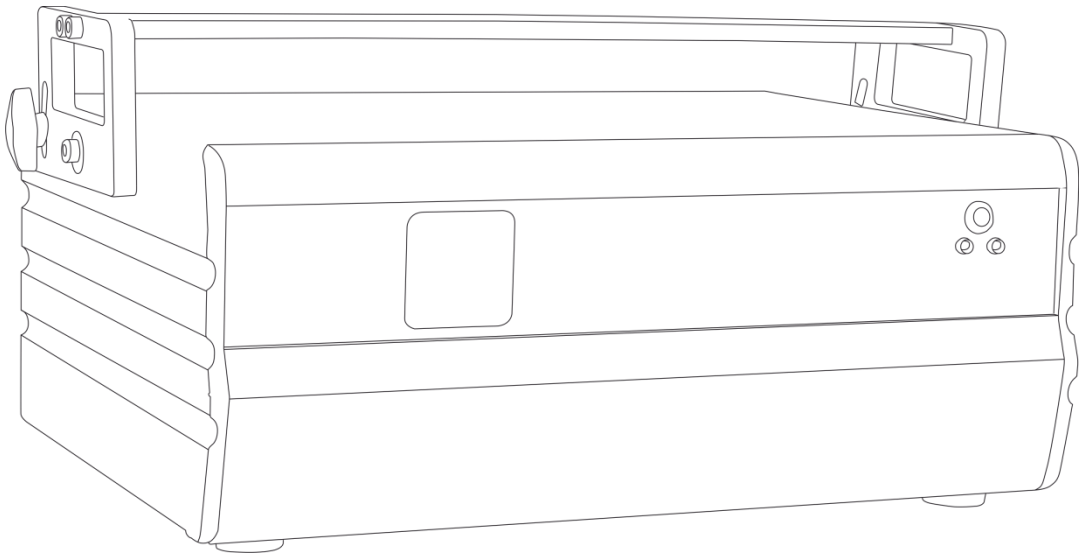


Fig. 01

Backside

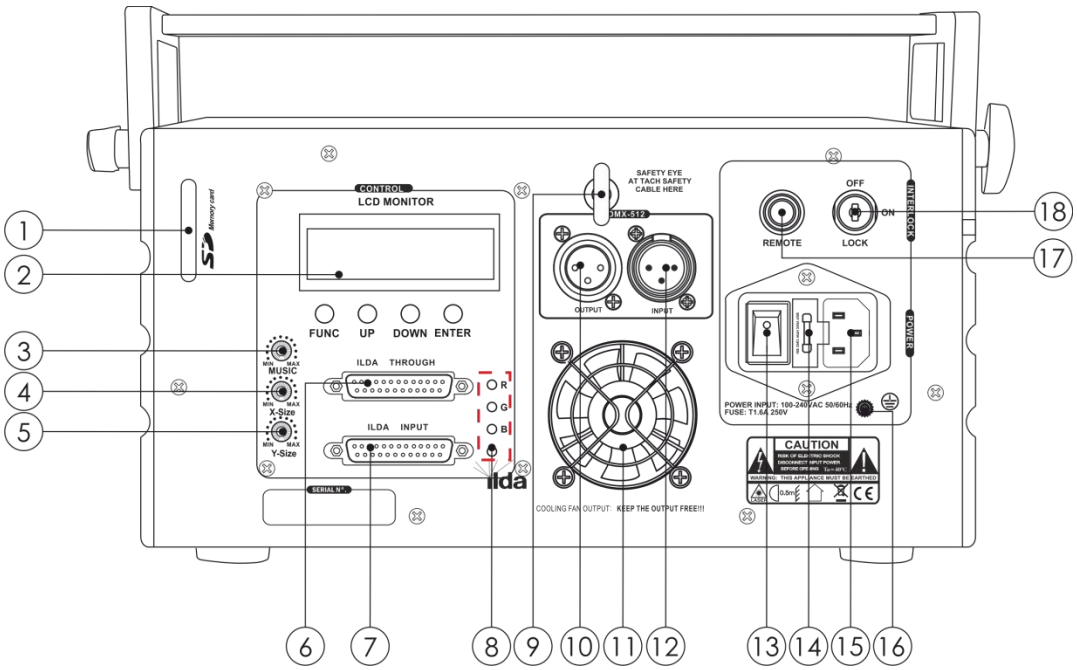


Fig. 02

01) SD Slot
02) LED display + control buttons + LED indicators
03) Music Sensitivity
04) X-Size
05) Y-size
06) ILDA Through
07) ILDA Input
08) RGB + ILDA LED
09) Safety Eye
10) 3-pin DMX signal connector OUT
11) Cooling Fan
12) 3-pin DMX signal connector IN
13) ON/OFF
14) Fuse 1,6A
15) IEC Powerconnector
16) Ground/Earth connection
17) Remote Interlock safety connection
18) Lock On/Off

Red ILDA LED = connection
Green ILDA LED = disconnection

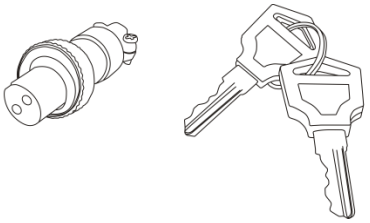
Installation

Remove all packing materials from the Galactic. 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)

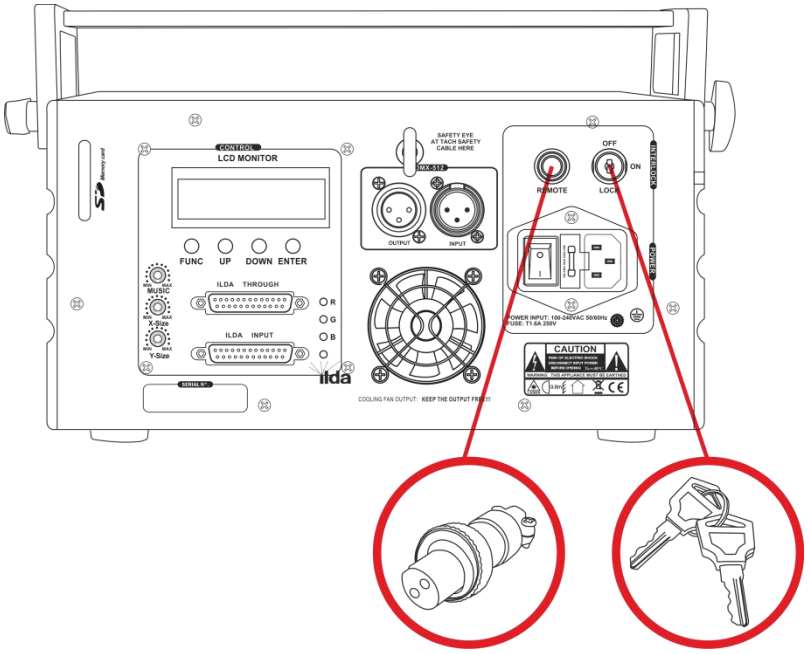


They should be kept with the Galactic laser !!!

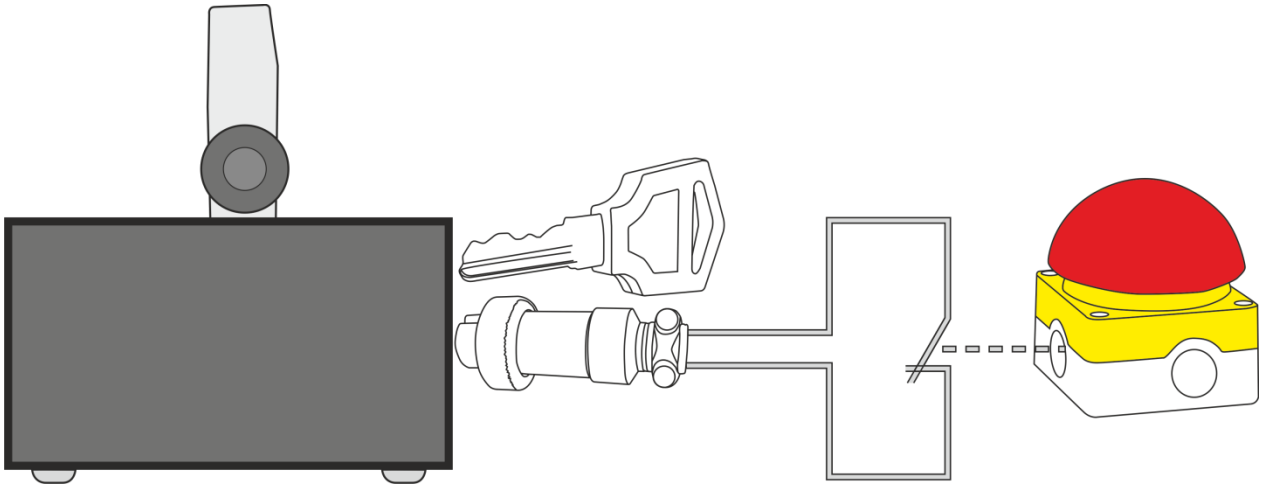
The following safety precautions should be followed:

- The remote control plug should be placed on the backside **(17)** of your Galactic laser.
- The keys should be put into the lock **(8)** of your Galactic laser.

Warning



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.



Control Modes

There are 4 modes:	•	Autoshow 1 Autoshow 2
	•	Musicshow 1 + Musicshow 2
	•	Master/Slave
	•	DMX-512 (13CH)

One Galactic (Autoshow 1+2)

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) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Galactic is not connected by a DMX-cable, it functions as a stand-alone device.
05) Please see page 14 for more information about the Autoshow effects.

One Galactic (Sound-controlled Musicshow 1+2)

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) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) When the Galactic is not connected with a DMX-cable, it functions as a stand-alone device.
05) Please see page 14 for more information about the Sound-controlled mode.

Multiple Galactics (Master/Slave Mode)

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) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-pin XLR cable to connect the Galactics.

The pins:

01) Earth
02) Signal (-)
03) Signal (+)

05) Link the units as shown in Fig. 03, 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 (Built-in or Sound-controlled). This means on the master device you can set your desired operation mode and all slave devices will react the same as the master device.

Multiple Galactics Master/Slave Set Up

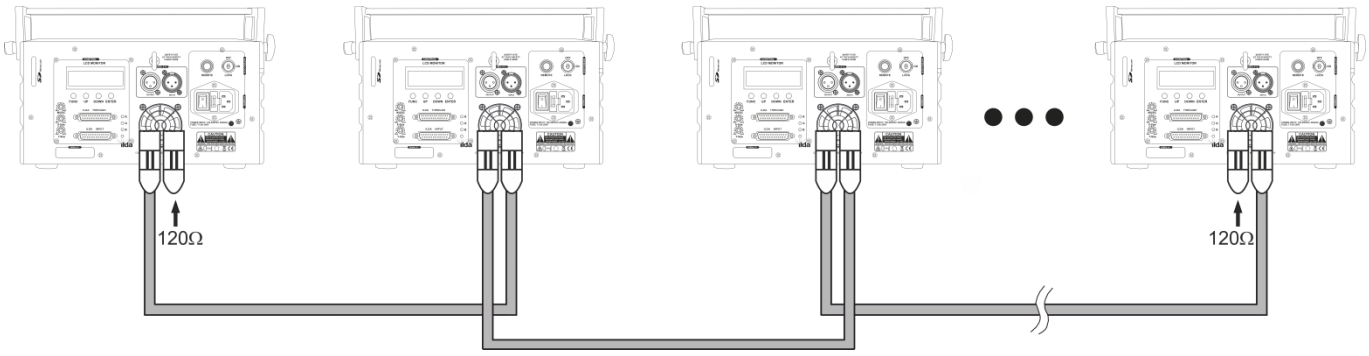
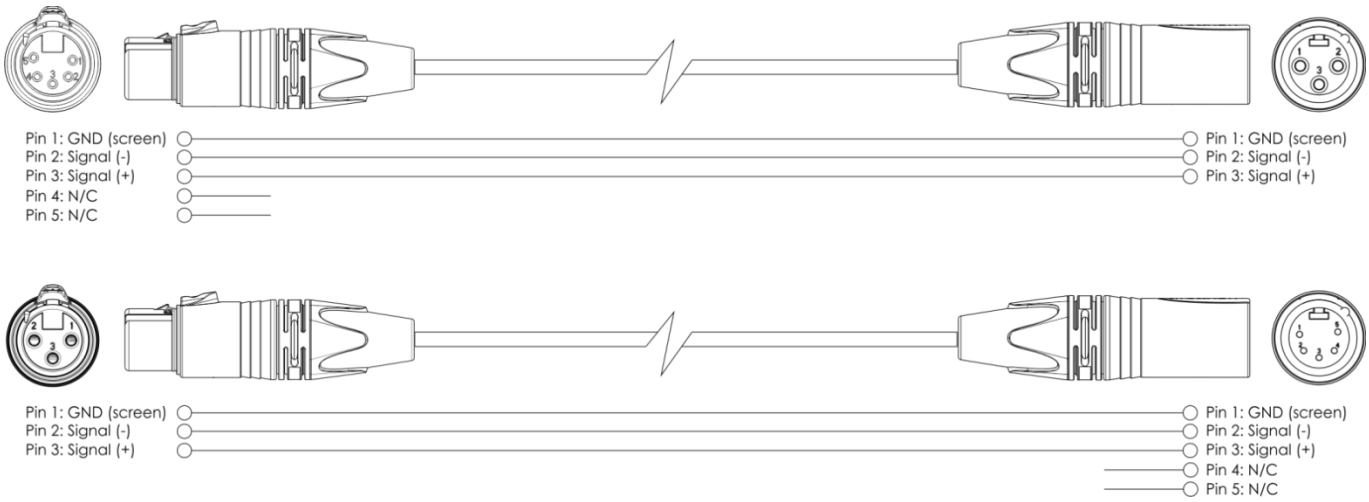


Fig. 03

Multiple Galactics (DMX Control)

01) Fasten the effect light onto firm trussing. Leave at least 1 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) Use a 3-p XLR cable to connect the Galactics and other devices.



05) Link the units as shown in Fig. 04, 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.
06) Supply electric power: Plug electric mains power cords into each unit's IEC 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 Galactics DMX Set Up

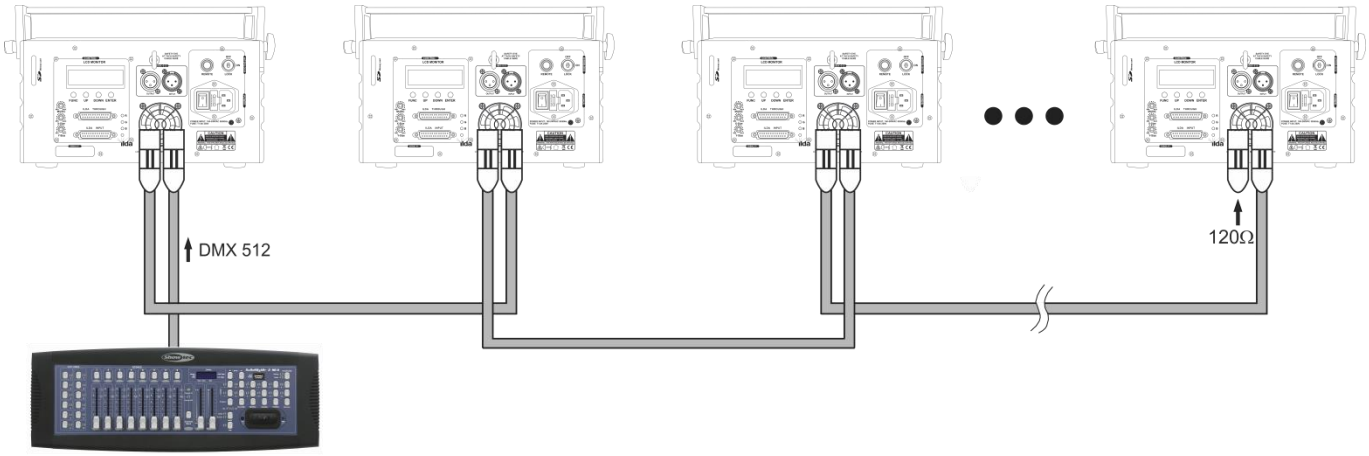


Fig. 04

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 on 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 one 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

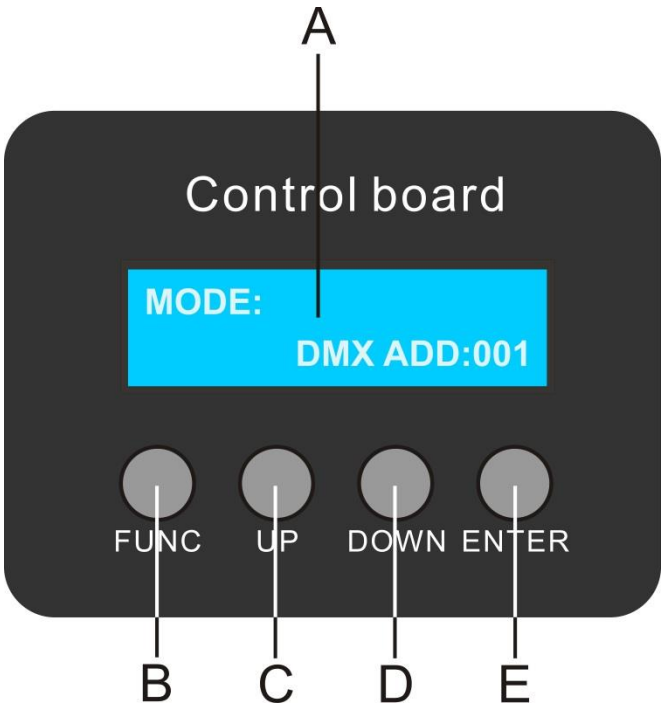
To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic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

DAP Audio Certified DMX Data Cables

- DAP Audio cable for all-round use. bal. XLR/M 3 p. > XLR/F 3 p.
  Ordercode FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. Ordercode FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m.).

The Galactic can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel



A) LED display
B) FUNC button
C) UP button
D) DOWN button
E) ENTER button

Fig. 05

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 the next time.)

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Galactic will respond to the controller.
Please note when you use the controller, the unit has **13** channels.
When using multiple Galactics, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Galactics should be **1(001)**; the DMX address of the second Galactic should be **1+13=14 (014)**; the DMX address of the third Galactic should be **14+13=27 (027)**, etc.
Please, make sure that you do not have any overlapping channels in order to control each Galactic correctly.
If two or more Galactics are addressed similarly, they will work similarly.

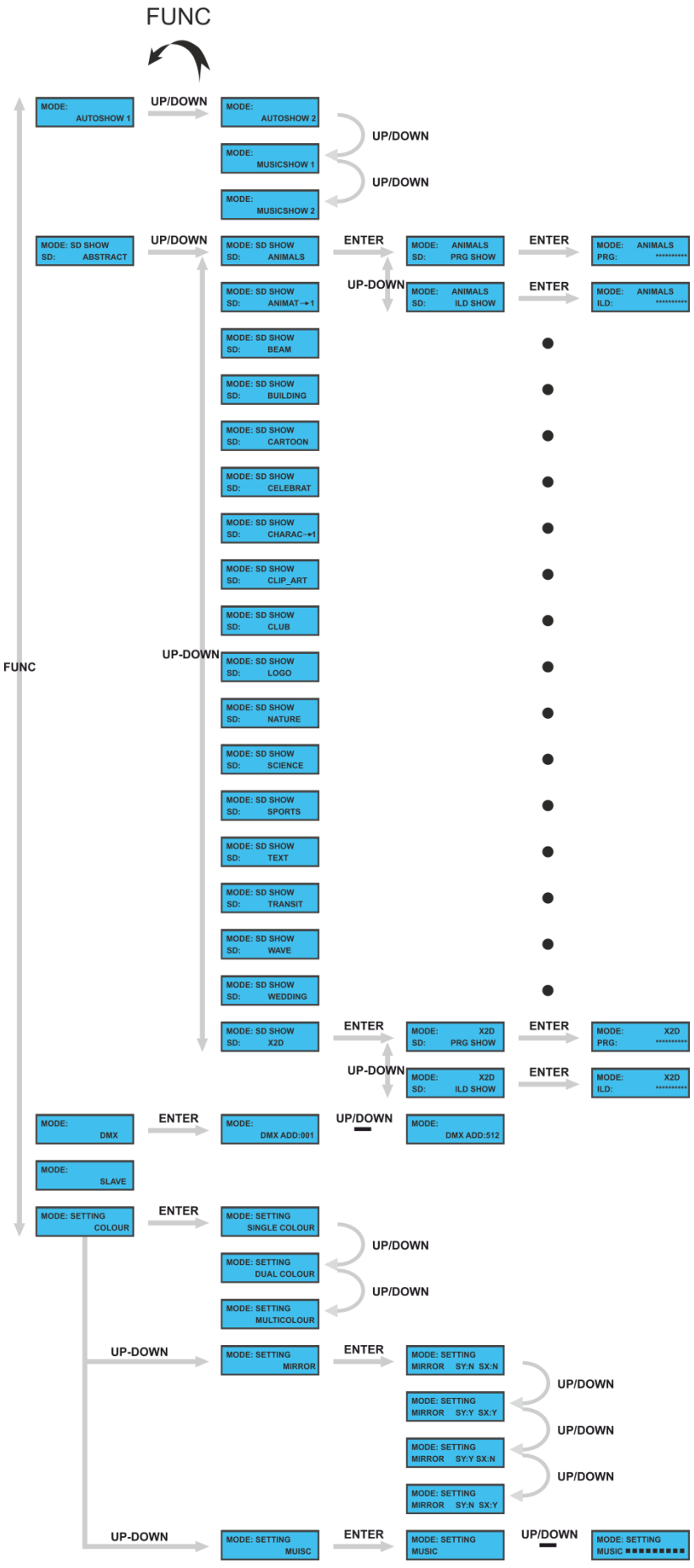
Controlling:

After having addressed all Galactic fixtures, you may now start operating these via your lighting controller.
Note: After switching on, the Galactic 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.
The problem may be:

- The XLR cable from the controller is not connected with the input of the Galactic.
- 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



Main Menu Options

MODE: AUTOSHOW 1	Automatic / Sound-controlled Show
MODE: SD SHOW SD: ABSTRACT	SD Show
MODE: DMX	DMX address
MODE: SLAVE	Master/Slave Mode
MODE: SETTING COLOUR	Setting Menu: Colours, Mirror, Sensitivity

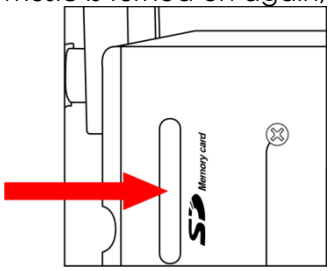
1. Automatic / Sound-controlled Show

01) Press the **FUNC** button, until the display shows MODE: AUTOSHOW 1.
02) Use the Up / Down buttons to scroll through the entire menu.

MODE: AUTOSHOW 1	is a fast and exhilarating show, which is better suited for disco applications
MODE: AUTOSHOW 2	is a slow and relaxing show, which is better suited for lounge applications
MODE: MUSICSHOW 1	is a fast and exhilarating show, which is better suited for disco applications
MODE: MUSICSHOW 2	is a slow and relaxing show, which is better suited for lounge applications

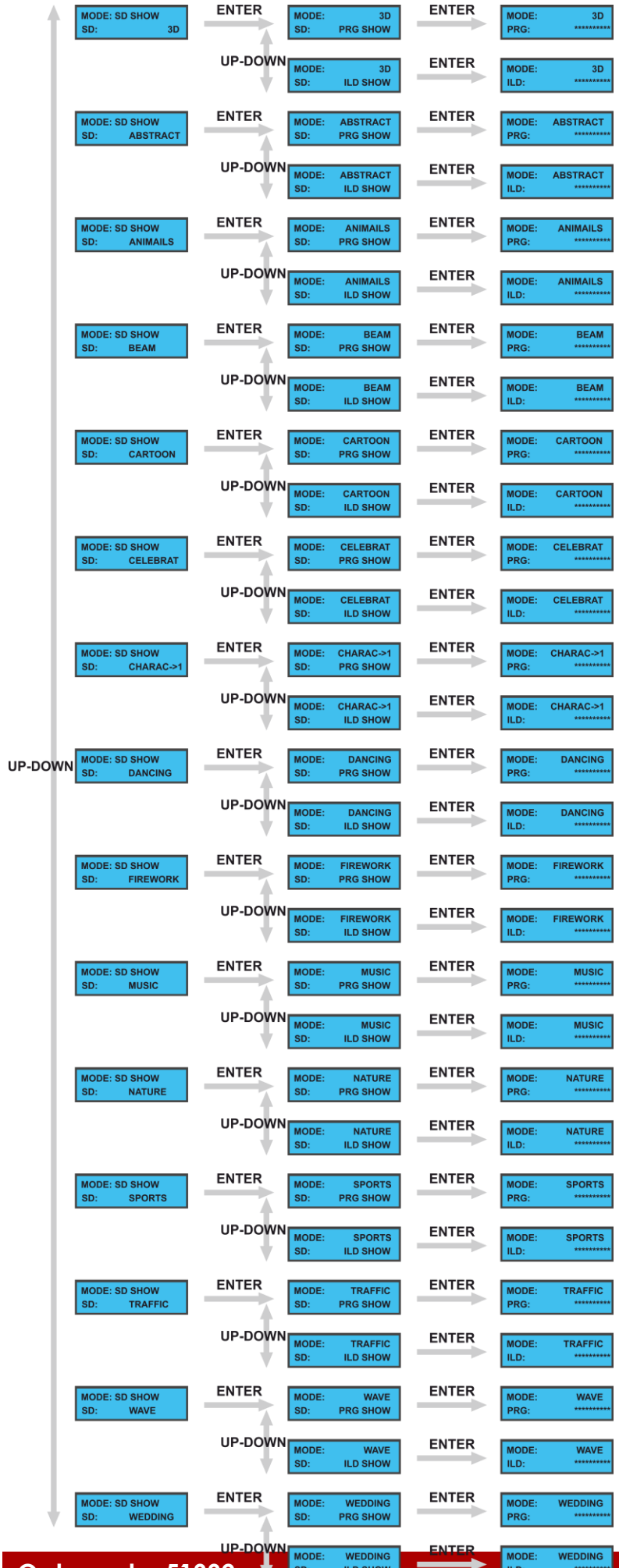
03) Use the ENTER button to store your setting.

Attention: When there is no sound/AUDIO/MIC signal for 3 seconds the laser will be OFF. As soon as the music is turned on again, the laser will go on.



2. SD Show

01) Make sure the SD card is placed into the slot on the back of the device.
02) Press the **FUNC** button, until the display shows: MODE: SD SHOW SD: ABSTRACT.
03) Use the Up / Down buttons to scroll through the entire menu.
04) Each folder name has to be 8 characters including letter or numbers. Any folder name with more than 8 characters cannot be shown on the LCD display.


MODE: SD SHOW
SD: 3D
ENTER
MODE: 3D
SD: PRG SHOW
ENTER
MODE: 3D
PRG: **********
UP-DOWN
MODE: 3D
SD: ILD SHOW
ENTER
MODE: 3D
ILD: **********
MODE: SD SHOW
SD: ABSTRACT
ENTER
MODE: ABSTRACT
SD: PRG SHOW
ENTER
MODE: ABSTRACT
PRG: **********
UP-DOWN
MODE: ABSTRACT
SD: ILD SHOW
ENTER
MODE: ABSTRACT
ILD: **********
MODE: SD SHOW
SD: ANIMAILS
ENTER
MODE: ANIMAILS
SD: PRG SHOW
ENTER
MODE: ANIMAILS
PRG: **********
UP-DOWN
MODE: ANIMAILS
SD: ILD SHOW
ENTER
MODE: ANIMAILS
ILD: **********
MODE: SD SHOW
SD: BEAM
ENTER
MODE: BEAM
SD: PRG SHOW
ENTER
MODE: BEAM
PRG: **********
UP-DOWN
MODE: BEAM
SD: ILD SHOW
ENTER
MODE: BEAM
ILD: **********
MODE: SD SHOW
SD: CARTOON
ENTER
MODE: CARTOON
SD: PRG SHOW
ENTER
MODE: CARTOON
PRG: **********
UP-DOWN
MODE: CARTOON
SD: ILD SHOW
ENTER
MODE: CARTOON
ILD: **********
MODE: SD SHOW
SD: CELEBRAT
ENTER
MODE: CELEBRAT
SD: PRG SHOW
ENTER
MODE: CELEBRAT
PRG: **********
UP-DOWN
MODE: CELEBRAT
SD: ILD SHOW
ENTER
MODE: CELEBRAT
ILD: **********
MODE: SD SHOW
SD: CHARAC->1
ENTER
MODE: CHARAC->1
SD: PRG SHOW
ENTER
MODE: CHARAC->1
PRG: **********
UP-DOWN
MODE: CHARAC->1
SD: ILD SHOW
ENTER
MODE: CHARAC->1
ILD: **********
UP-DOWN
MODE: SD SHOW
SD: DANCING
ENTER
MODE: DANCING
SD: PRG SHOW
ENTER
MODE: DANCING
PRG: **********
UP-DOWN
MODE: DANCING
SD: ILD SHOW
ENTER
MODE: DANCING
ILD: **********
MODE: SD SHOW
SD: FIREWORK
ENTER
MODE: FIREWORK
SD: PRG SHOW
ENTER
MODE: FIREWORK
PRG: **********
UP-DOWN
MODE: FIREWORK
SD: ILD SHOW
ENTER
MODE: FIREWORK
ILD: **********
MODE: SD SHOW
SD: MUSIC
ENTER
MODE: MUSIC
SD: PRG SHOW
ENTER
MODE: MUSIC
PRG: **********
UP-DOWN
MODE: MUSIC
SD: ILD SHOW
ENTER
MODE: MUSIC
ILD: **********
MODE: SD SHOW
SD: NATURE
ENTER
MODE: NATURE
SD: PRG SHOW
ENTER
MODE: NATURE
PRG: **********
UP-DOWN
MODE: NATURE
SD: ILD SHOW
ENTER
MODE: NATURE
ILD: **********
MODE: SD SHOW
SD: SPORTS
ENTER
MODE: SPORTS
SD: PRG SHOW
ENTER
MODE: SPORTS
PRG: **********
UP-DOWN
MODE: SPORTS
SD: ILD SHOW
ENTER
MODE: SPORTS
ILD: **********
MODE: SD SHOW
SD: TRAFFIC
ENTER
MODE: TRAFFIC
SD: PRG SHOW
ENTER
MODE: TRAFFIC
PRG: **********
UP-DOWN
MODE: TRAFFIC
SD: ILD SHOW
ENTER
MODE: TRAFFIC
ILD: **********
MODE: SD SHOW
SD: WAVE
ENTER
MODE: WAVE
SD: PRG SHOW
ENTER
MODE: WAVE
PRG: **********
UP-DOWN
MODE: WAVE
SD: ILD SHOW
ENTER
MODE: WAVE
ILD: **********
MODE: SD SHOW
SD: WEDDING
ENTER
MODE: WEDDING
SD: PRG SHOW
ENTER
MODE: WEDDING
PRG: **********
UP-DOWN
MODE: WEDDING
SD: ILD SHOW
ENTER
MODE: WEDDING
ILD: **********

05) Press ENTER to open a specific folder.
06) Press Up / Down buttons to choose your show mode: **ILDA** single show.
PRG preprogrammed show
07) Press ENTER to confirm the desired laser show.
08) Use the Up / Down buttons to scroll through the entire file menu.

Attention: Please **ONLY** put ILD-format laser shows on the SD card.
DO NOT save any other files on it.
The SD Card supports max. 100 folders with less than 255 files in each folder.
The SD Card has to be a FAT32 format system.

One of the PRG preprogrammed shows on the SD card is located in the folder ANIMATION.
To play a PRG preprogrammed show, a TXT file (with a WINDOW PC) has to be made in the same folder.
Once the file is created and saved, the TXT file has to be renamed to *.PRG

Create your own show

01) In the folder ANIMA folder, there are 3 ILD-files, they are ANIMA1.ild, ANIMA2.ild, ANIMA3.ild.
02) If you want to create your own preprogrammed show with these 3 files, you should create a TXT files with the following contents: ANIMA1.ild,12,3
ANIMA2.ild,20,1
ANIMA3.ild,18,4
03) Save this TXT file with name ANIMA.TXT.
04) Change the extension of the file name from ANIMA.TXT to ANIMA.PRG

Explanation: ANIMA1.ild,12,3
ANIMA1.ild is the **ILD** show name, **12** is the scanner speed, **3** is how many times you want this show to be repeated.

3. DMX Mode

With this menu you can set the DMX address.
01) When the laser is connected with DMX controlled device or if a DMX signal is present, the DMX LED on the front panel will light up RED.
02) Press the **FUNC** button, until the display shows: 

.
03) Press **ENTER** to open this menu.
04) You can choose 512 different DMX addresses.
05) Use the Up / Down buttons to select the required address from 

UP/DOWN


06) Use the **ENTER** button to store your setting.

4. Master/Slave Mode

In this menu you can set the fixture as a slave device.
01) Press the **FUNC** button, until the display shows . 

02) Use the **ENTER** button to store your setting.
03) The device is now operating in slave mode. It means that it will react the same as the master device.

5. Settings Mode

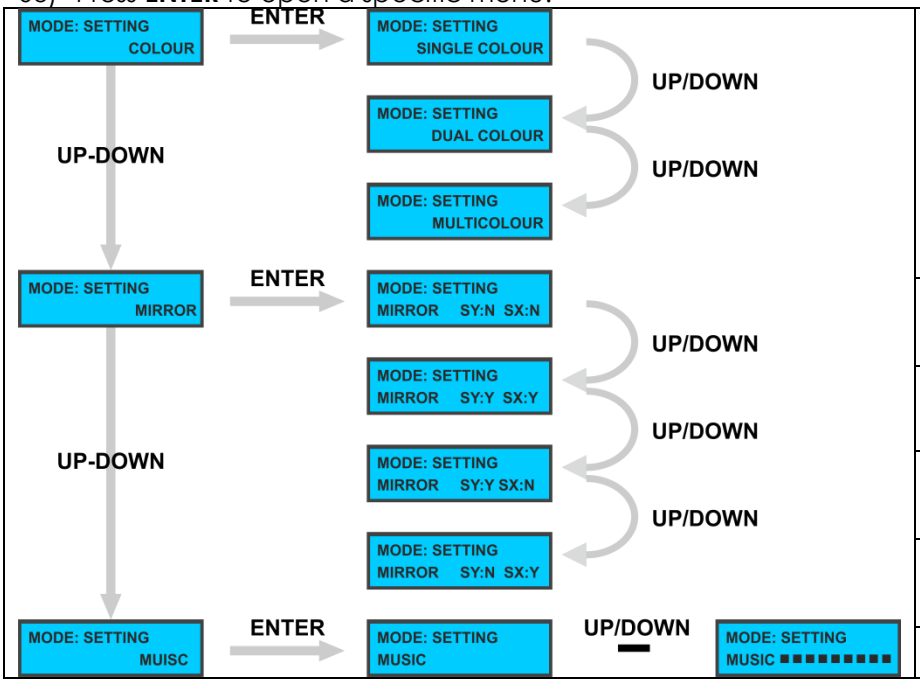
With this menu you are able to create a special setup.

01) Press the **FUNC** button, until the display shows 

.

02) Use the Up / Down buttons to choose between 3 main menus: Colour, Mirror or Music.

03) Press **ENTER** to open a specific menu.



Since this is a Blue laser, these 3 options have no function. This product will only show a blue laser.
Normal image
Image Y-axis mirror, X-axis mirror
Image Y-axis mirror, X-axis normal
Image Y-axis mirror, X-axis normal
Audio sensitivity

04) Use the **ENTER** button to store your setting.

ILDA Control Mode

This laser has an ILDA DB25 port, meaning it can be controlled by the PC.
There is an auto transform set in the unit's inside to transform the ILDA and preprogrammed shows. When connecting the 25 pin cable, the unit will be controlled by a PC. When you disconnect the unit, it will return to its preprogrammed program control.
In theory, as long as the ILDA B25 connector is connected, a PC can control this laser unit. But in reality, some software programs cannot control this unit, because pin 4 and 17 of the output card are not connected. In fact this is an easy to solve problem. As long as you connect them, you can control this unit.

DMX Channels

13 channels

Channel 1 – Built-in Programs / Sound-controlled Mode

0-73	Laser OFF
74-110	**PRG Show** only via the SD card
111-147	**ILD Show** only via the SD card
148-165	Auto Show 1
166-184	Auto Show 2
185-202	Music-controlled Show 1
203-221	Music-controlled Show 2
222-255	**DMX MODE** (CH2-13 activated)

Channel 2 – Folders on SD Card in PRG/ ILD Mode, only when CH1 is set between 74-147

0-255	Folders

Channel 2 – Shows on SD Card in PRG or ILD Mode, only when CH1 is set between 74-147

0-255	Shows

CH2-CH13 will only function, when CH1 is set between 222-255

Channel 2 – 85 patterns

0-255	85 Individual patterns (For exact values see page 20)

Channel 3 – Strobe

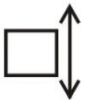
0-5	Laser OFF
6-10	Laser ON, but no strobe
11-199	Strobe from slow to fast
200-255	Sound-controlled Strobe

Channel 4 – X-axis Moving

0-125	125 different fixed positions on X Axis
126-185	Moving from slow to fast
186-225	Moving with random speed
226-245	Random Position
246-255	Sound-controlled to random position

Channel 5 – Y-axis Moving

0-125	125 different fixed positions on Y Axis
126-185	Moving from slow to fast
186-225	Moving with random speed
226-245	Random Position
246-255	Sound-controlled to random position



Channel 6 – Zoom

0-10	Original Size
11-100	Fixed Size (if angle <1°, the laser will shut down to prevent danger
101-150	Zooming Out from slow to fast
151-200	Zooming In from slow to fast
201-255	Zooming Out and In from slow to fast

Channel 7 – Y-axis Rolling

0-10	No Rolling
11-110	0-359 degree fixed Y Axis rolling
111-255	Rolling from slow to fast

Channel 8 – X-axis Rolling

0-10	No Rolling
11-110	0-359 degree fixed X Axis rolling
111-255	Rolling from slow to fast

Channel 9 – X-axis Rolling

0-1	No Rolling
1-180	0-359 degree fixed Z Axis rolling
181-217	Rolling Counter-clockwise from slow to fast
218-255	Rolling Clockwise from slow to fast

Channel 10 – Clipping

0-10	Original Pattern
11-74	Fixed Clipping (drawing the images)
75-104	Clipping Out from slow to fast (drawing clockwise)
105-144	Clipping In from slow to fast (drawing counterclockwise)
145-184	Clipping Out and In from slow to fast
185-224	Clipping On from slow to fast (showing image and then erasing CCW)
225-255	Clipping Off from slow to fast (showing image and then erasing CW)

Channel 11 – Wave

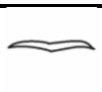
0-10	Original Pattern from slow to fast
11-199	Wave Effect in pattern with speed control from slow to fast
200-255	Wave Effect in pattern with amplitude control from slow to fast

Channel 12 – No Function

Channel 13 – Patterns

0-63	Original pattern
64-127	Pattern with bright points
128-191	Pattern blanking
192-255	Points to make a pattern

Patterns

000-001 	051-053 	102-104 	153-155 	207-209 
002-005 	054-056	105-107	156-158 	210-212 
006-008 	057-059	108-110 	159-161 	213-215 
009-011 	060-062 	111-113 	162-164 	216-218 
012-014 	063-065 	114-116 	165-167 	219-221 
015-017 	066-068 	117-119	168-173 	222-224 
018-020 	069-071 	120-122 	174-176 	225-227 
021-023	072-074 	123-125 	177-179 	228-230 
024-026 	075-077 	126-128 	180-182 	231-233 
027-029 	078-080 	129-131 	183-185 	234-236 
030-032 	081-083 	132-134 	186-188 	237-239 
033-035 	084-086 	135-137 	189-191 	240-242 
036-038	087-089 	138-140 	192-194 	243-245 
039-041 	090-092 	141-143 	195-197 	246-248
042-044 	093-095 	144-146 	198-200 	249-251 
045-047 	096-098 	147-149 	201-203 	252-254 
048-050 	099-101 	150-152 	204-206 	255 

ILD and PRG files

Abstract	DinRin.ild	plough.ild	glass.ild	Citsloet.ild
abs01.ild	Dog.ild	RHINO2.ild	LA^TERNR.ild	Dizzy.ild
abs02.ild	dragfire.ild	Roo.ild	PLANKS.ild	Dwntown.ild
abs03.ild	dragon1.ild	runrab.ild	set2.ild	easterI.ild
abs04.ild	dragon2.ild	sardine.ild	skullrot.ild	easteri1.ild
abs05.ild	eagle.ild	Seamonst.ild	tregrow.ild	easterIL.ild
abs06.ild	eagle1f.ild	shark.ild	wkinlite.ild	Factory.ild
abs08.ild	Eaglee.ild	Shark1a.ild	zipper.ild	Flyover.ild
abs09.ild	eleph.ild	sharkatt.ild		GCoast.ild
abs10.ild	Elepha.ild	sheep.ild	**Beam**	Ggate.ild
ABSTRAC1.ILD	fisbite1.ild	singlion.ild	8_circle.ild	ggate1.ild
Abstract.PRG	fisch.ild	slion.ild	8_flower.ild	glassoff.ild
Aurora1.ild	fish1.ild	snake.ild	9pm.ild	GTwallo.ild
Aurora100.ild	fishbig.ild	snake2.ild	AYAG.ild	halrotat.ild
Aurora6.ild	fishbite.ild	spider.ild	Barry.ild	henge.ild
Aurora7.ild	FISHEAT.ild	squak.ild	Beam.PRG	HydroEle.ild
Auroraa1.ild	fishlil.ild	tdaktyl.ild	beat.ild	Lighthou.ild
Beam_Fr.ild	fishswim.ild	trex.ild	cir_roat.ild	litehous.ild
SPRT2.ild	fishtrmp.ild	tronto.ild	cir_zoom.ild	Ltower.ild
SWIRL.ild	FISHY2.ild	walrus.ild	c_cirle.ild	Malaysia.ild
SWIRLB.ild	FLY.ild	wolf.ild	c_Line.ild	Observat.ild
SWIRLY.ild	Flying.ild	wombat.ild	d_circle.ild	oldhouse.ild
WAVLG.ild	ghofer.ild		fan.ild	pyramids.ild
x3.ild	ghound.ild	**Animation**	Feelup.ild	spcity.ild
	Heron.ild	Animation.PRG	flying.ild	Sphinxx.ild
Animals	hippo.ild	arro3f.ild	GRIDDOTS.ild	sphinxxx.ild
3D2DRudy.ild	horse3.ild	Balaim.ild	KLF.ild	sydneop.ild
3monkey.ild	hound.ild	banaroll.ild	launch.ild	uluru2.ild
abird.ild	ilddolf.ild	blindsHZ.ild	lines.ild	
Animals.PRG	kangaroo.ild	bonerot.ild	Line_cir.ild	**Cartoon**
Batfl.ild	koala.ild	boom.ild	line_x.ild	Auroraa2.ild
batfly.ild	kroo.ild	Brkthru.ild	Lovely.ild	bacter1.ild
BELUGAS.ild	kroo1.ild	broom.ild	mainsho.ild	bear.ild
bigcat.ild	lion1.ild	celuloid.ild	Moby.ild	bizmon.ild
bird1.ild	lion2.ild	circwipe.ild	p_cross.ild	brain.ild
birdsil.ild	lion3.ild	claww.ild	radiance.ild	BUGSb.ild
birdy.ild	liontmp.ild	closing.ild	rect.ild	Cartoon.PRG
Bpanther.ild	lionwlk.ild	comet.ild	spat3.ild	cow_.ild
bugfly.ild	MINGO.ild	curl.ild	Sun.ild	Dickdas.ild
bullpen.ild	octypus2.ild	diamdizz.ild	turbine.ild	fakir1.ild
camel.ild	octypuss.ild	dissolv.ild	x_circle.ild	goat_.ild
carp.ild	octyrun.ild	fire.ild		Goofy.ild
cateyes1.ild	octywave.ild	fire1.ild	**Building**	ham_nail.ild
catfish.ild	ORCA.ild	fire2.ild	acencity.ild	hippo1.ild
chchuk.ild	OSTRIH.ild	flag1.ild	ArcD.ild	kitty.ild
Cheeta.ild	owl.ild	flag2.ild	bagdad.ild	lion.ild
chorsetk.ild	parott.ild	flowerop.ild	barn1.ild	Magoo.ild
clam.ild	PeaceDo.ild	floweroq.ild	beltwer1.ild	moose.ild
coka2.ild	Pelican.ild	ghost2f.ild	Building.PRG	newsboy.ild
crabrun.ild	pitbull.ild	GHOSTY.ild	chur360.ild	nova2.ild

nova3e.ild	cardgive.ild	Deckchr.ild	Led.ild	falls1.ild
npaper.ild	chainsa.ild	fishskel.ild	mmann.ild	falls2.ild
Oscar.ild	Character.PRG	flower.ild	NEON.ild	falls3.ild
pencil.ild	Chef.ild	FRANKN.ild	notemv.ild	grassmv.ild
pinky&B.ild	Coolie.ild	ghost.ild	ohmike.ild	grfire.ild
sweeper.ild	demon.ild	Goul.ild	PIANO.ild	h20splsh.ild
zippy.ild	eskimo.ild	Griffin.ild	piano2.ild	lightnin.ild
	eyeblnk.ild	Iguana.ild	strip.ild	Nature.PRG
Celebrat	Facemorf.ild	lizz.ild	taenzer.ild	Oaktree.ild
beer.ild	fistslam.ild	LovArro.ild	Telefon.ild	ovthhil1.ild
candle.ild	gradg.ild	morff.ild	tomtom.ild	RAIN.ild
Celebrat.PRG	handle.ild	mumhead.ild	Vbearid.ild	rain1.ild
clap.ild	jogger.ild	optical.ild	WOODDOOR.ild	sea.ild
Clapping.ild	king&Q.ild	pagerip1.ild		SEAROLL.ild
confetti.ild	kite.ild	redstar.ild	**Logo**	seashore.ild
count.ild	mageye.ild	skull1.ild	Audi.ild	waterfal.ild
creeping.ild	maggymay.ild	unicorn.ild	belfas.ild	wavcrash.ild
crowds.ild	Mofsteel.ild	yingyang.ild	Benz.ild	wavedraf.ild
Elf.ild	moses.ild		bmw.ild	wavez.ild
elfrun.ild	neptune.ild	**Club**	Cadillac.ild	wavroll1.ild
FIREWKS1.ild	ontheph.ild	2002count	Coke.ild	wavrush.ild
FIREWKS2.ild	peek.ild	ANI017.ild	eagles.ild	wfalani1.ild
FIREWKS3.ild	Pirate1.ild	ANI066.ild	ferrari.ild	wfalanim.ild
FIREWRK4.ild	Pirate2.ild	bass.ild	FOOTYT.ild	wfall.ild
Food.ild	pullgun.ild	bbcmic.ild	Ford.ild	wfallzom.ild
Games.ild	rhood.ild	behind.ild	Harley.ild	
North.ild	runna.ild	bells.ild	Holden.ild	**Science**
play.ild	salute.ild	blam.ild	ILPLOGO.ild	acog.ild
Presents.ild	smann.ild	brekdce.ild	Jaguar.ild	atemp.ild
Santa2.ild	stepup.ild	calnder.ild	keno.ild	bang.ild
Santaf.ild	torchand.ild	clapper.ild	klm.ild	belltel.ild
santapop.ild	warrior.ild	Club.PRG	Logo.PRG	book.ild
santlaf.ild	witch1.ild	clubber.ild	mvworld.ild	BOOKOP.ild
SantList.ild	wizard1.ild	clubbera.ild	plez.ild	CableJ.ild
santread.ild	XTEMCLIF.ild	conduct.ild	qcon1.ild	cameras.ild
sleigh.ild		conduct1.ild	redbull.ild	cellph.ild
snoflake.ild	**CLIP_ART**	conga.ild	ruski.ild	cell_phs.ild
stremers.ild	2face.ild	convict.ild	Shell.ild	circ_saw.ild
tree.ild	alien1.ild	count	TAB.ild	Claw.ild
treednce.ild	Ark.ild	dblbass.ild	tabcorp.ild	cog1.ild
xmas.ild	Attache.ild	flik.ild	Toyota.ild	coggbigg.ild
xmastree.ild	bach.ild	give.ild		crash.ild
yes.ild	ballons.ild	gwalk.ild	**Nature**	cyberman.ild
	batz.ild	hamhitt.ild	3palms.ild	e3dsimp.ild
Character	bookop.ild	heartbrk.ild	bubbles.ild	Earth3d.ild
alice.ild	bug1.ild	hiphop.ild	cldown.ild	earth60v.ild
Babyl.ild	capsicum.ild	Hiphop2.ild	Cloudpan.ild	evolu.ild
bazooka1.ild	CLIP_ART.PRG	instrum.ild	clouds.ild	gridpers.ild
bikini.ild	corpse.ild	keyb.ild	Desert.ild	lantern.ild
boss.ild	curtains.ild	keybord.ild	falls.ild	light.ild

litehous.ild	Sports.PRG.bak	f11.ild	PLASMA.ild		
movcam.ild	sprinter.ild	formula1.ild	SPIND.ild		
oilderek.ild	style.ild	frigate.ild	spiral.ild		
ph.ild	surfer2.ild	gallsea.ild	stargrid.ild		
Phring.ild	swingg.ild	heli.ild	SWIRL.ild		
pliers.ild	volball.ild	helibig.ild	tunnel.ild		
plnetexp.ild	windsur.ild	hor&carr.ild	wall.ild		
pour.ild		jeepdus1.ild	WUERFEL.ild		
reelcam.ild	**Text**	jeepdust.ild	X2D.PRG		
robofoot.ild	Birthday.ild	Jet.ild			
robot1.ild	Crazy.ild	rikshaw.ild			
saveth.ild	Dance.ild	skydive.ild			
Science.PRG	DANCE2.ild	subpop.ild			
ship.ild	Disco.ild	subway32.ild			
shutter1.ild	Good.ild	tanker.ild			
sparkx.ild	Happy.ild	train.ild			
SPtank.ild	HIPHOP.ild	Transit.PRG			
SSHIP1.ild	ILOVEYOU.ild	turrtgun.ild			
sship2.ild	Love.ild	WIWil.ild			
sship3.ild	LOVE2.ild				
sship4.ild	Music.ild	**Wave**			
sshipA.ild	Party.ild	2wave.ild			
sshipb.ild	Ready.ild	circle_w.ild			
starexpl.ild	Start.ild	dot_wave.ild			
teargas.ild	Stop.ild	d_wave.ild			
thermo.ild	Text.PRG	free.ild			
	Thank.ild	m_wave.ild			
Sports	Welcome.ild	swiming.ild			
arotrget.ild	Win.ild	tri_wave.ild			
athlete.ild	Worldcup.ild	Wave.PRG			
bearer.ild	Xmas.ild	Wave.PRG.bak			
Boarder.ild		wave2.ild			
bowling.ild	**Transit**	xwave.ild			
BRONCO.ild	747.ild				
cricket.ild	amblance.ild	**Wedding**			
cyclist.ild	balloon.ild	2heart.ild			
Golfer.ild	biplane.ild	diamond.ild			
golfswin.ild	biplane1.ild	diaring.ild			
gymfloor.ild	boat.ild	fireworks.ild			
gymnast.ild	caddy.ild	fireworks2.ild			
hurdle.ild	carbike.ild	flower.ild			
Jockey.ild	carjump.ild	rose.ild			
Jockey1.ild	chase.ild	Valen.ild			
lifter.ild	Classic.ild	Wedding.PRG			
para.ild	crane.ild				
skirace.ild	DAYBOAT.ild	**X2D**			
snoboard.ild	driveby.ild	3Dcity.ild			
snooker.ild	express.ild	3_cube.ild			
soccer.ild		maze.ild			
Sports.PRG		molecule.ild			

Maintenance

The Showtec Galactic 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. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. 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-relating 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-relating 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.

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 screwdriver into the 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 where the old fuse was. 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.
Response: Suspect three potential problem areas as: the power supply, the laser, the fuse.
01) Power supply. Check that the unit is plugged into an appropriate power supply.
02) The laser. Return the Galactic to your Showtec dealer.
03) The fuse. Replace the fuse. See page 27 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 Galactic, as this may damage the unit and the warranty will become void.
06) 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 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.

Problem	Probable cause(s)	Remedy
One or more fixtures do not function at all	No power to the fixture.	• Check that 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 regained: 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 laser cuts out intermittently	Fixture is too hot.	• Allow fixture to cool. • Make sure air vents at control panel and front lens are not blocked. • Turn up the air conditioning .
	Laser damaged	• Disconnect fixture and return 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:	Galactic G300
Input Voltage:	AC 100-240V, 60/50Hz
Continuous Power:	38 Watt
Fuse:	1,6 A / 250V
Dimensions:	385 x 310 x 165mm (LxWxH excl. bracket)
Weight:	8,6 kg
Operation and Programming	
Signal pin OUT:	pin 1 earth, pin 2 (-), pin 3 (+)
Set Up and Addressing:	Red LED display for all settings
DMX Channels:	13 channels
Signal input:	3-pin DMX signal connector IN
Signal output:	3-pin DMX signal connector OUT
	Sub-D 25 Pole
Electro-mechanical effects	
Laser Class:	3B
Laser Power:	300mW 532nm Green
Laser Modulation	TTL
Scan Angle	+/-40˚
Cooling:	Cooling fans and TE Cooling
Scan Speed	20K
Scanning ILDA Standard	20Kpps
Beam diameter:	<5mm at aperture
Divergence (each beam):	<2 mrad;
Divergence (total light):	<90 degrees
Safety Features:	Key switch, Interlock, Safety eye
DMX-control:	Via standard DMX-controller
Control Modes:	Auto, Sound, Master/Slave, DMX, ILDA, SD-Card
Housing:	Compact strong metal housing
Connections:	Dedicated IEC Power & Data connector
Clear LCD display for all settings	
Music-controlled via built-in microphone	
Beam, Wave, Text, Animation, Logo	
2 x Auto Show + 2 x Music Show	
85 Animated Graphic Show Patterns	
Auto Detected ILDA Signal Interface	
Accessories	2 Keys, Interlock test connector
Laser Safety:	EN/IEC 60825-1 Ed 2, 2007-03
Max. ambient temperature t_a:	40°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.

CE

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Dimensions