Galactic B1000

ORDERCODE 51331

SHOWELECTRONICS FOR PROFESSIONALS

Congratulations!

You have bought a great, innovative product from Showtec.
The Showtec Galactic B1000 brings excitement to any venue.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec Galactic B1000 ™ Product Guide

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:
• Galactic B1000
• IEC powercable 1,75m
• Remote plug and 2 keys
• 2GB micro SD card + micro SD adapter
• User manual

DANGER

LASER CLASS 4

CAUTION- LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

CAUTION ! EYEDAMAGES !!!
NEVER LOOK DIRECTLY INTO THE LIGHTSOURCE !!!
NEVER PROJECT A SINGLE LASER POINT !!!

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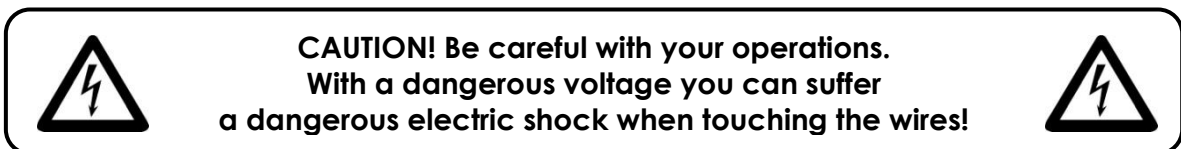**Unplug mains lead before opening the housing!**

FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY
BEFORE YOUR INITIAL START-UP!

Safety Instructions

Every person involved with the installation, operation and maintenance of this device have to:
- be qualified
- follow the instructions of this manual

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

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

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

Please consider that damages caused by manual modifications to the device are not subject to warranty. This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

IMPORTANT:

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

- Never let the power-cord come into contact with other cables! Handle the power-cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not open the device and do not modify the device.
- 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.
- 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.
- Avoid flames and do not put close to flammable liquids or gases.
- Always check the regulations when using a class 4 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. Light 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 user is responsible for correct positioning and operating of the Galactic B1000. 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 safety for a Class 4 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 Galactic Laser has been designed to comply with FDA and IEC Standards for it classification. The Galactic is a Class 4 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 4
Cooling: TE Cooling & Fan Cooling
Laser medium: wavelength 450nm blue
Output: 1000mW blue
Scanning ILDA Standard: 20K
Beam Diameter <5mm at aperture
Divergence (each beam) <2 mrad
Divergence (total light) <90 degrees

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 4 LASER RADIATION WHEN
OPEN AVOID DIRECT EXPOSURE TO BEAM

This laser product is a Class 4 laser and has an Interlocked housing.

WARRANTY VOID
If seal is broken or has been tampered with

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

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

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

Model

Serial Number

Date of Manufacture

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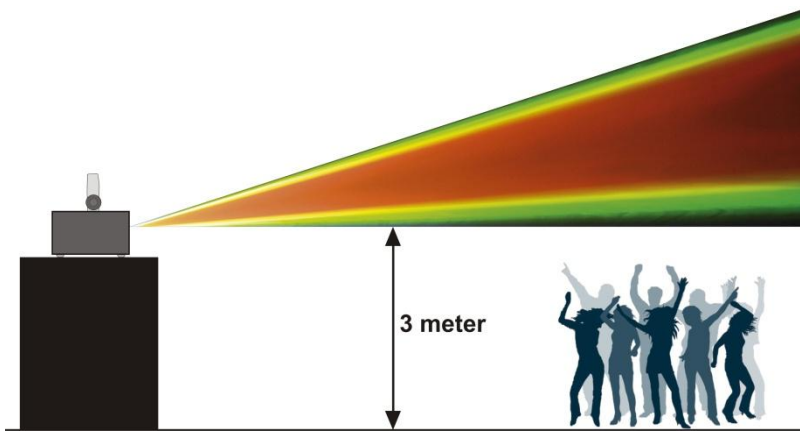
According to FDA Regulations you should operate this product as stated on the left.

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 more than 0.5 meter.
- The maximum ambient temperature t_a = 45°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 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 device, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

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	FASE
N	BLUE	BLACK	SILVER	NULL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

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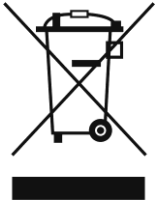

⚠ Return Procedure ⚠

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail 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:
1) Your name
2) Your address
3) Your phone number
4) 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 B1000 is a laser effect with high output and great effects.
- Due to the strong 1W output this unit is capable of making great beam shows at in- and outdoor events
- If you like to create a more impressive show you can combine the B1000 with the Showtec G300 (51332)
- 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: 40 Watt
- Scan Speed: 20K
- Laser Class: 4
- Laser Modulation: TTL
- Laser Safety: EN/IEC 60825-1 Ed 2, 2007-03
- Laser Power: 1000mW 450nm Blue
- 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
- 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: 387 x 281 x 162mm (LxWxH excl. bracket); Weight: 8 Kg

- Accessories: 2 Keys, Interlock test connector, 2Gb micro SD card + adapter

Overview

Fig. 1

Backside
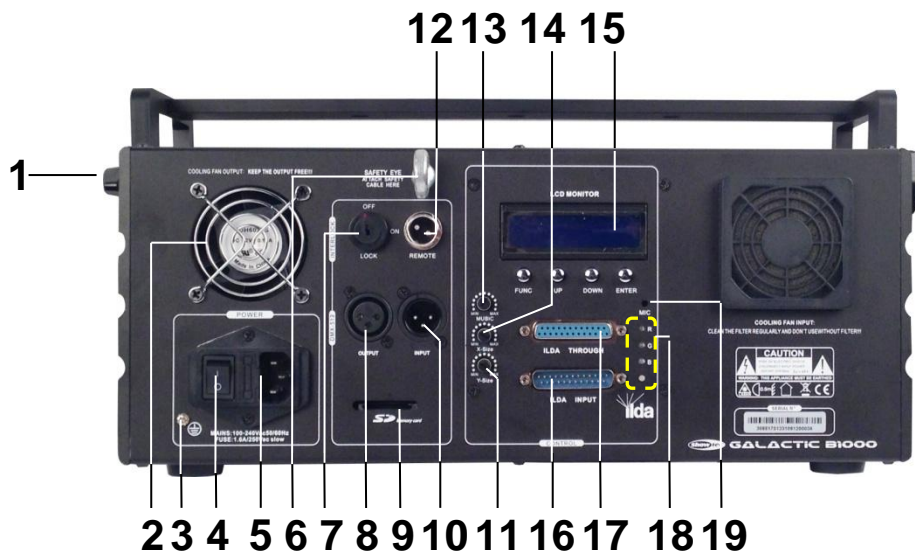
Fig.2

1) Mountingbracket with adjustment screw
2) Cooling Fan
3) Earth connection
4) ON/OFF
5) IEC Powerconnector + Fuse 1,6A
6) Safety Eye
7) Lock On/Off
8) 3-pin DMX Out
9) SD Slot
10) 3-pin DMX In

11) Y-size
12) Remote Interlock safety connection
13) Music Sensitivity
14) X-Size
15) LCD Display + Menu Buttons
16) ILDA Input
17) ILDA Through
18) RGB + ILDA LEDs
19) Microphone

Red ILDA LED = connection
Green ILDA LED = disconnection
All RGB LEDS on = Laser is active

Installation

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

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 music-controlled by its 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 interlock plug should be placed on the backside (**12**) of your Galactic laser.
-The keys should be put into the lock (**7**) of your Galactic laser.

⚠️ 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.

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 check your national laws with the authorities: We don't take any responsibility for eventual discrepancies, changes or adaptions regarding lawful use of laser devices.
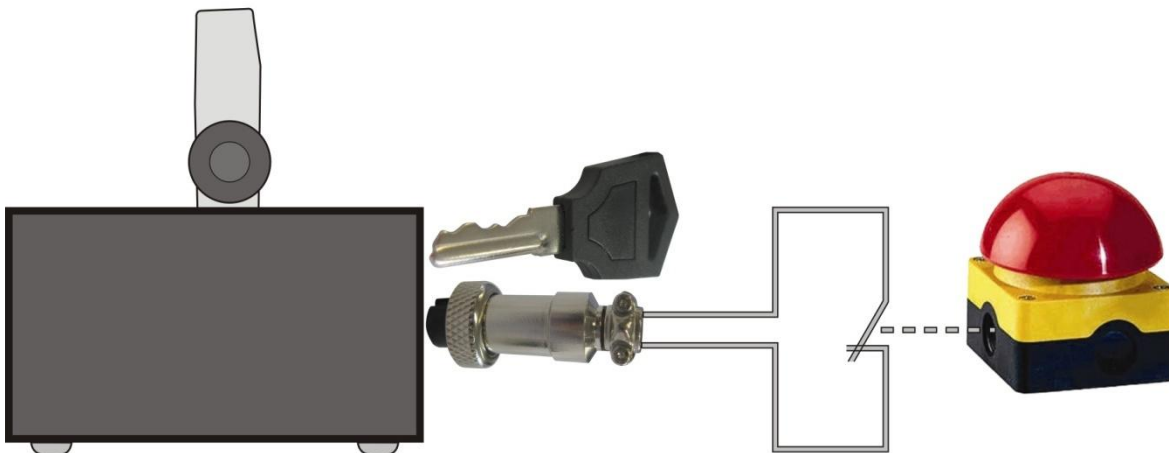
Control Modes

There are 4 modes:
- Autoshow 1 + Autoshow 2
- Musicshow 1 + Musicshow 2
- Master/Slave
- DMX512

One Galactic (Autoshow 1 + Autoshow 2)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the Galactic is not connected by a DMX-cable, it functions as a stand-alone device.
   Please see page 14 for more information about the Autoshow effects.

One Galactic (Sound-controlled Musicshow 1+2)

1. Fasten the effect light onto firm trussing Leave at least 1 meter on all sides for air circulation.
2. Turn on the music. If the device is set to sound, then the Galactic will react to the beat of the music.
   Please see page 14 for more information about the sound-control options.

Multiple Galactics (Master/Slave control)

1. Fasten the effect light onto firm trussing Leave at least 1 meter on all sides for air circulation.
2. Always use a safety cable (ordercode 70140 / 70141).
3. Use a 3-p XLR cable to connect the Galactic lasers.
   The pins:

   1.   Earth
   2.   Signal -
   3.   Signal +

4. Link the units as shown in (Fig. 3), 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 14 (Autoshow 1+2 or Musicshow 1+2). 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 control)

120Ω   120Ω

Fig. 3

Multiple Galactic (DMX Control)

1. Fasten the effect light onto firm trussing Leave at least 1 meter on all sides for air circulation.
2. Always use a safety cable (ordercode 70140 / 70141).
3. Use a 3-p XLR cable to connect the Galactic lasers.
4. Link the units as shown in (figure 4), 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.
5. Supply electric power: Plug the end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

Multiple Galactics Set Up
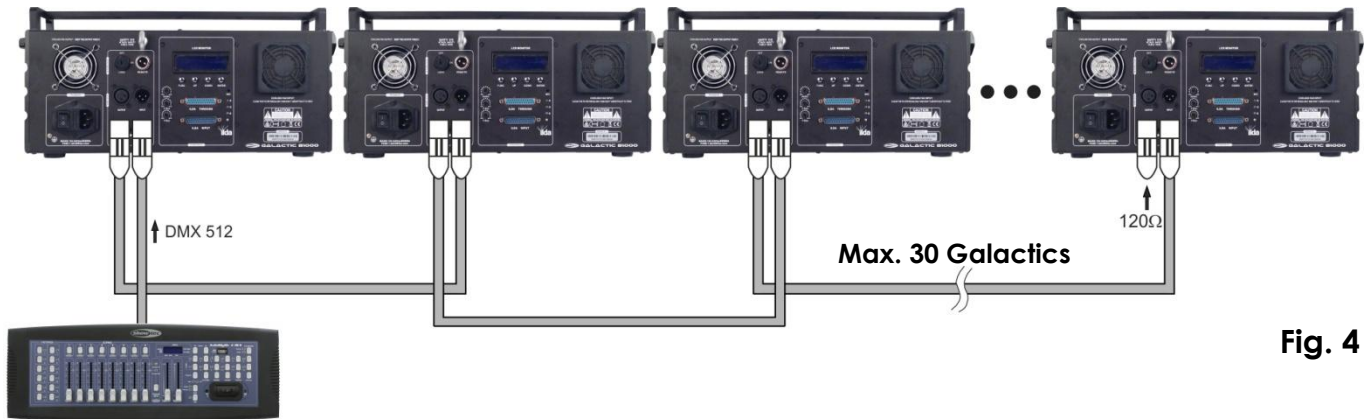
Fig. 4

Note : Link all DMX cables and set dip switches before connecting electric power

6. Do not supply power before the whole system is set up and connected properly. Design your show according to your DMX controller functions. See page 16 for more about DMX programming.

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 Galactics 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 Basic microphone cable for allround 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.).

Control Panel
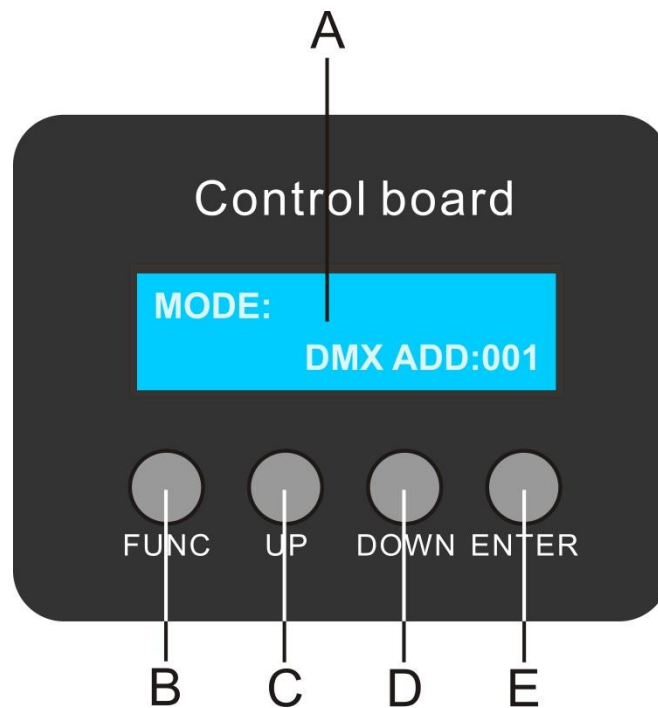
Fig. 5

A. LED Display   **D.** Down Button
B. Func Button   **E.** Enter Button
C. Up Button

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.

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 max. **13** channels.
When using multiple Galactic's, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Galactic should be **1(001)**; the DMX address of the second Galactic should be **1+13=14**; the DMX address of the third Galactic should be **14+13=27**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Galactic correctly. If two or more Galactic's are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under DMX-Mode on page 16

Controlling:
After having addressed all Galactic's, 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.
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's necessary to insert a XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.

Menu Overview

FUNC

MODE: AUTOSHOW 1 → **UP/DOWN** → **MODE:** AUTOSHOW 2

UP/DOWN ⇄ **MODE:** MUSICSHOW 1

UP/DOWN ⇄ **MODE:** MUSICSHOW 2

MODE: SD SHOW SD: ABSTRACT → **UP/DOWN** → **MODE: SD SHOW** SD: ANIMALS → **ENTER** → **MODE:** ANIMALS SD: PRG SHOW → **ENTER** → **MODE:** ANIMALS PRG: **********

UP-DOWN ↕ **MODE:** ANIMALS SD: ILD SHOW → **ENTER** → **MODE:** ANIMALS ILD: **********

MODE: SD SHOW SD: ANIMAT→1

MODE: SD SHOW SD: BEAM

MODE: SD SHOW SD: BUILDING

MODE: SD SHOW SD: CARTOON

MODE: SD SHOW SD: CELEBRAT

MODE: SD SHOW SD: CHARAC→1

MODE: SD SHOW SD: CLIP_ART

MODE: SD SHOW SD: CLUB

UP-DOWN **MODE: SD SHOW** SD: LOGO

MODE: SD SHOW SD: NATURE

MODE: SD SHOW SD: SCIENCE

MODE: SD SHOW SD: SPORTS

MODE: SD SHOW SD: TEXT

MODE: SD SHOW SD: TRANSIT

MODE: SD SHOW SD: WAVE

MODE: SD SHOW SD: WEDDING

(●●●●●●●●●●●●●●●●●●)

MODE: SD SHOW SD: X2D → **ENTER** → **MODE:** X2D SD: PRG SHOW → **ENTER** → **MODE:** X2D PRG: **********

UP-DOWN ↕ **MODE:** X2D SD: ILD SHOW → **ENTER** → **MODE:** X2D ILD: **********

MODE: DMX → **ENTER** → **MODE:** DMX ADD:001 → **UP/DOWN** → **MODE:** DMX ADD:512

MODE: SLAVE

MODE: SETTING COLOUR → **ENTER** → **MODE: SETTING** SINGLE COLOUR

UP/DOWN ⇄ **MODE: SETTING** DUAL COLOUR

UP/DOWN ⇄ **MODE: SETTING** MULTICOLOUR

UP-DOWN → **MODE: SETTING** MIRROR → **ENTER** → **MODE: SETTING** MIRROR SY:N SX:N

UP/DOWN ⇄ **MODE: SETTING** MIRROR SY:Y SX:Y

UP/DOWN ⇄ **MODE: SETTING** MIRROR SY:Y SX:N

UP/DOWN ⇄ **MODE: SETTING** MIRROR SY:N SX:Y

UP-DOWN → **MODE: SETTING** MUISC → **ENTER** → **MODE: SETTING** MUSIC → **UP/DOWN** → **MODE: SETTING** MUSIC ■■■■■■■■■

13

Main Menu Options

MODE: **AUTOSHOW 1**	1. Automatic / Sound-controlled Show
MODE: SD SHOW **SD:** **ABSTRACT**	2. SD Show
MODE: **DMX**	3. DMX address
MODE: **SLAVE**	4. Master/Slave Mode
MODE: SETTING **COLOUR**	5. Setting Menu: Colours, Mirror, Sensitivity

1. Automatic / Sound-controlled Show

1) Press the **FUNC** button, until the display shows `MODE: AUTOSHOW 1` .

2) 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

3) 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

Make sure the SD card is placed into the slot on the back of the device.

1) Press the **FUNC** button, until the display shows `MODE: SD SHOW SD: ABSTRACT` .

2) Use the Up / Down buttons to scroll through the entire menu.

3) Each folder name has to be 8 characters including letters or numbers. Any folder name with more than 8 characters cannot be shown on the LCD display.

UP-DOWN

| 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: ANIMALS | ENTER → | MODE: ANIMALS / SD: PRG SHOW | ENTER → | MODE: ANIMALS / PRG: ********* |
| UP-DOWN | MODE: ANIMALS / SD: ILD SHOW | ENTER → | MODE: ANIMALS / ILD: ********* |

| MODE: SD SHOW / SD: ANIMAT→1 | ENTER → | MODE: ANIMAT→1 / SD: PRG SHOW | ENTER → | MODE: ANIMAT→1 / PRG: ********* |
| UP-DOWN | MODE: ANIMAT→1 / SD: ILD SHOW | ENTER → | MODE: ANIMAT→1 / 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: BUILDING | ENTER → | MODE: BUILDING / SD: PRG SHOW | ENTER → | MODE: BUILDING / PRG: ********* |
| UP-DOWN | MODE: BUILDING / SD: ILD SHOW | ENTER → | MODE: BUILDING / 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: ********* |

| MODE: SD SHOW / SD: CLIP_ART | ENTER → | MODE: CLIP_ART / SD: PRG SHOW | ENTER → | MODE: CLIP_ART / PRG: ********* |
| UP-DOWN | MODE: CLIP_ART / SD: ILD SHOW | ENTER → | MODE: CLIP_ART / ILD: ********* |

| MODE: SD SHOW / SD: CLUB | ENTER → | MODE: CLUB / SD: PRG SHOW | ENTER → | MODE: CLUB / PRG: ********* |
| UP-DOWN | MODE: CLUB / SD: ILD SHOW | ENTER → | MODE: CLUB / ILD: ********* |

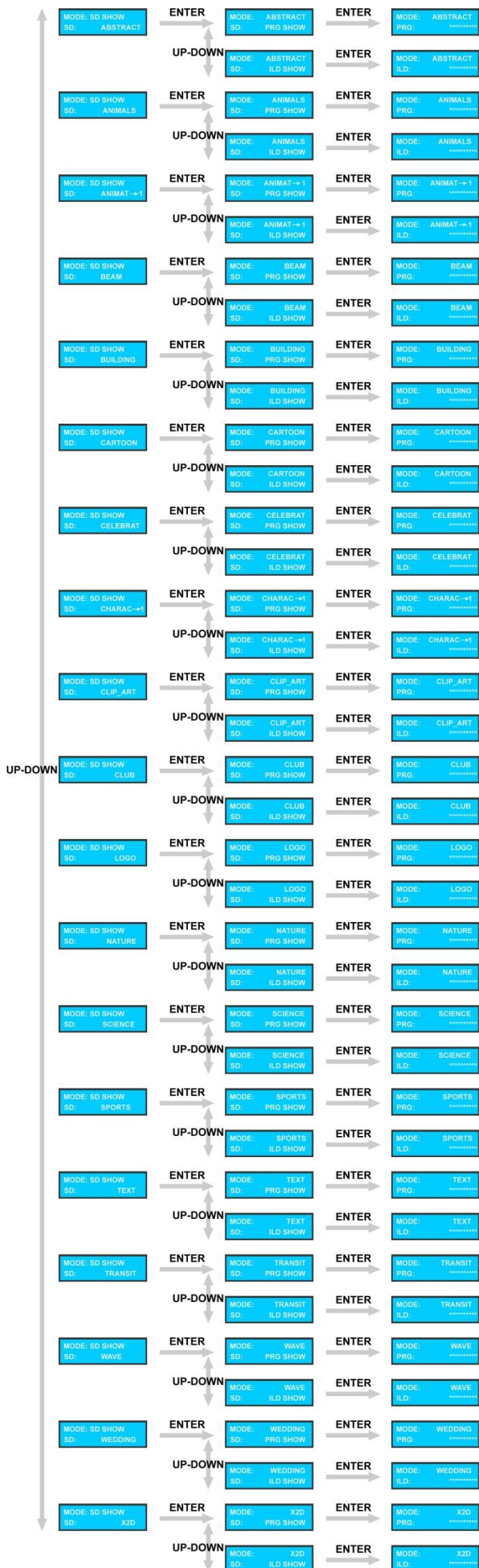| MODE: SD SHOW / SD: LOGO | ENTER → | MODE: LOGO / SD: PRG SHOW | ENTER → | MODE: LOGO / PRG: ********* |
| UP-DOWN | MODE: LOGO / SD: ILD SHOW | ENTER → | MODE: LOGO / ILD: ********* |

| 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: SCIENCE | ENTER → | MODE: SCIENCE / SD: PRG SHOW | ENTER → | MODE: SCIENCE / PRG: ********* |
| UP-DOWN | MODE: SCIENCE / SD: ILD SHOW | ENTER → | MODE: SCIENCE / 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: TEXT | ENTER → | MODE: TEXT / SD: PRG SHOW | ENTER → | MODE: TEXT / PRG: ********* |
| UP-DOWN | MODE: TEXT / SD: ILD SHOW | ENTER → | MODE: TEXT / ILD: ********* |

| MODE: SD SHOW / SD: TRANSIT | ENTER → | MODE: TRANSIT / SD: PRG SHOW | ENTER → | MODE: TRANSIT / PRG: ********* |
| UP-DOWN | MODE: TRANSIT / SD: ILD SHOW | ENTER → | MODE: TRANSIT / 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: ********* |

| MODE: SD SHOW / SD: X2D | ENTER → | MODE: X2D / SD: PRG SHOW | ENTER → | MODE: X2D / PRG: ********* |
| UP-DOWN | MODE: X2D / SD: ILD SHOW | ENTER → | MODE: X2D / ILD: ********* |

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4) Press ENTER to open a specific folder.

5) Press Up / Down buttons to choose your show mode: **ILDA** single show

                         PRG preprogrammed show.

6) Press ENTER to confirm the desired laser show.

7) 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

1) In the folder ANIMA folder, there are 3 ILD-files, they are ANIMA1.ild, ANIMA2.ild, ANIMA3.ild.

2) If you want to create your own preprogrammed show with these 3 files, you should create a TXT file
 with the following contents: ANIMA1.ild,12,3

                ANIMA2.ild,20,1

                ANIMA3.ild,18,4

3) Save this TXT file with name ANIMA.TXT.

4) 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.

1) When the laser is connected with a DMX controlled device or if a DMX signal is present, the DMX LED
 on the front panel will light up RED.

2) Press the **FUNC** button, until the display shows   MODE: DMX .

3) Press **ENTER** to open this menu.

4) You can choose 512 different DMX addresses.
 Use the Up / Down buttons to select the required address from MODE: DMX ADD:001 **UP/DOWN** MODE: DMX ADD:512
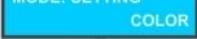
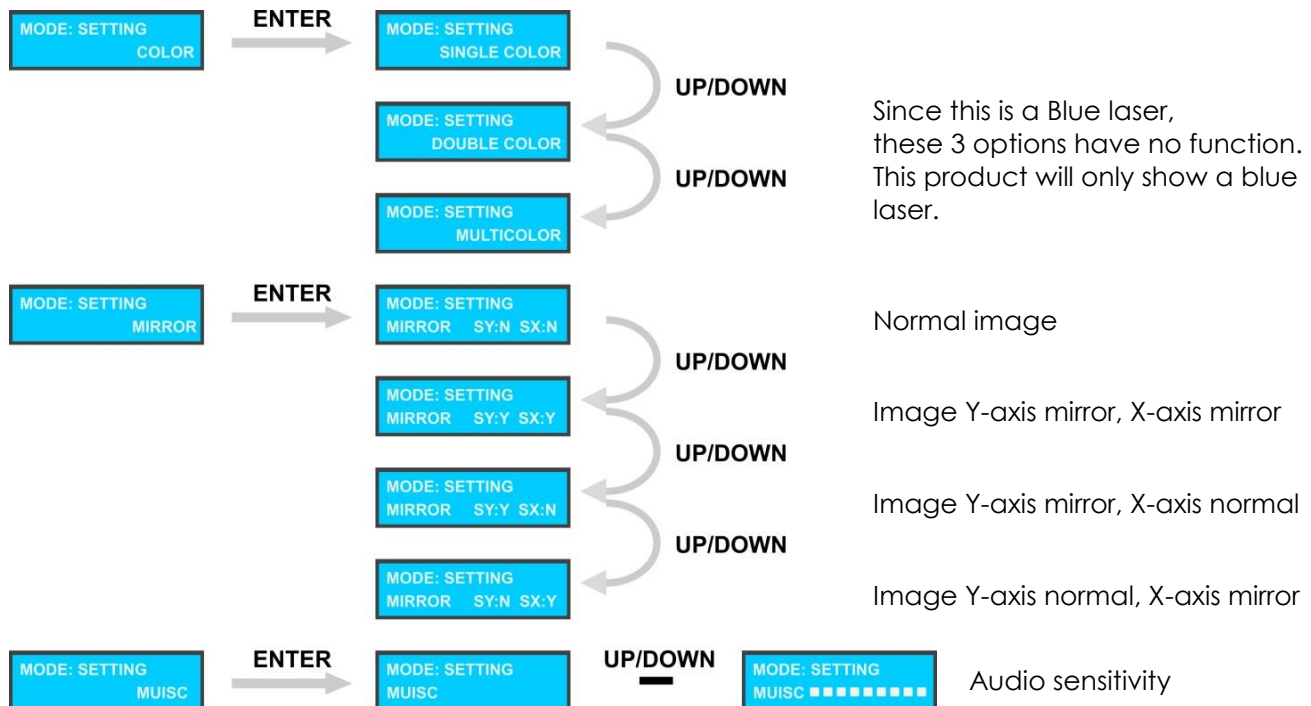**5)** Use the **ENTER** button to store your setting.

4. Slave Mode

With this menu you are able to set the device as a slave device.

1) Press the **FUNC** button, until the display shows MODE: SLAVE .

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

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

1) Press the **FUNC** button, until the display shows [MODE: SETTING COLOR] .
2) Use the Up / Down buttons to choose between 3 main menus: Color, Mirror or Music.
3) Press **ENTER** to open a specific menu.

MODE: SETTING COLOR	**ENTER** → MODE: SETTING SINGLE COLOR	
	UP/DOWN MODE: SETTING DOUBLE COLOR	Since this is a Blue laser, these 3 options have no function. This product will only show a blue laser.
	UP/DOWN MODE: SETTING MULTICOLOR	
MODE: SETTING MIRROR	**ENTER** → MODE: SETTING MIRROR SY:N SX:N	Normal image
	UP/DOWN MODE: SETTING MIRROR SY:Y SX:Y	Image Y-axis mirror, X-axis mirror
	UP/DOWN MODE: SETTING MIRROR SY:Y SX:N	Image Y-axis mirror, X-axis normal
	UP/DOWN MODE: SETTING MIRROR SY:N SX:Y	Image Y-axis normal, X-axis mirror
MODE: SETTING MUISC	**ENTER** → MODE: SETTING MUISC	**UP/DOWN** MODE: SETTING MUISC ■■■■■■■■ — Audio sensitivity

4) 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 3 – 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
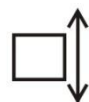
Channel 6 – Zoom

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 – Z-axis Rolling

0	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
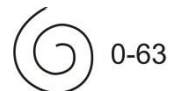
0-63

64-127

128-191

192-255

Patterns
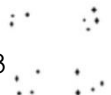
000-001	051-053	102-104	153-155	207-209
003-005	054-056	105-107	156-158	210-212
006-008	057-059	108-110	159-161	213-215
009-011	060-062	111-113	162-164	216-218
012-014	063-065	114-116	165-167	219-221
015-017	066-068	117-119	168-173	222-224
018-020	069-071	120-122	174-176	225-227
021-023	072-074	123-125	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
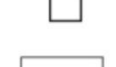
20
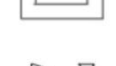
ILD and PRG files on SD Card

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. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. Keep connections clean. Disconnect electric power, and then wipe the 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 four years 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:
1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

Replacing a 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 to do so.
1. Unplug the unit from electric power source.
2. Insert a screwdriver into the slot in the fuse cover. Gently pry up the fuse cover. The fuse will come out.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. 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.
1. If the device does not operate properly, unplug the device.
2. Check the power from the wall, the fuse, all cables etc.
3. If all of the above appears to be O.K., plug the unit in again.
4. 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.
5. Return the machine to your Showtec dealer.

No Light

This troubleshooting guide is meant to help solve simple problems. If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps. If the laser effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas: the power supply, the laser, the fuse.
1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The laser. Return the device to your Showtec dealer.
3. The fuse. See page 22 for replacing the fuse.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
1. Check the DMX setting. Make sure that DMX addresses are correct
2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
3. 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.

See next page for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	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.
No laser	The power supply settings do not match local AC voltage and frequency.	• Disconnect fixture. Check settings and correct if necessary.
	Laser damaged.	• Disconnect fixture. Check settings and correct if necessary.

Product Specification

The Showtec Galactic B1000 is a laser effect with high output and great effects.
• Due to the strong 1W output this unit is capable of making great beam shows at in- and outdoor events
• If you like to create a more impressive show you can combine the B1000 with the Showtec G300 (51332)
• 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: 40 Watt
• Scan Speed: 20K
• Laser Class: 4
• Laser Modulation: TTL
• Laser Safety: EN/IEC 60825-1 Ed 2, 2007-03
• Laser Power: 1000mW 450nm Blue
• 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,
• 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: 387 x 281 x 162mm (LxWxH excl. bracket); Weight: 8 Kg

• Accessories: 2 Keys, Interlock test connector, 2Gb micro SD card + adapter

Minimum distance:
Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 0.8m

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

CE

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