



# XB-Dreamer DMX

ORDERCODE 43069



**SHOWELECTRONICS FOR PROFESSIONALS**

## **Congratulations!**

You have bought a great, innovative product from Showtec.

The Showtec XB-Dreamer brings excitement to any venue. Whether you want simple plug-&-play action or a sophisticated DMX show, this product provides the effect you need.

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](mailto: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!



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## WARNING

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

### Unpacking Instructions

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

#### Your shipment includes:

- Showtec XB-Dreamer DMX with IEC powercable 0,9m
- User manual



### LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. It is estimated that a viable lifespan of 40,000 to 50,000 hours will be achieved under normal operational conditions. If improving on this lifespan expectancy is of a higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.



**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 lift the fixture by holding it at the projector-head, as the mechanics may be damaged. Always hold the fixture at the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this would reduce the LED's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes hot). Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep case closed while operating.
- Always allow free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power-cord is never crimped or damaged. Check the device and the power-cord from time to time.
- If the lens is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. Lighteffect 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.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



**CAUTION ! EYEDAMAGES !.**  
**Avoid looking directly into the light source.**  
**(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  $t_a = 45^\circ\text{C}$  must never be exceeded.
- 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, lamp explosion, 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 projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting-bracket, to the trussing system.
- The projector 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 projector, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The XB-Dreamer can be placed on a flat stage floor or mounted to any kind of truss by 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 | FASE  |
| N                                                                                   | BLUE         | BLACK    | SILVER        | NUL   |
|  | 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](mailto: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 shortcomings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

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

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

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

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

## Description of the device

### Features

The Showtec XB-Dreamer is a light effect with very high output and great effects.

- Blackout/static/strobe
- Individual control of red, green and blue LEDs within each cluster (6 total)
- Mount multiple units together with adjustable, optional bracket (XB-BRACKET)
- Additional power output: max. 27 units @ 240V
- Bright light output
- DMX-controlled
- 10 DMX Channels
- 3-pin DMX In and 3-pin DMX Out
- Power consumption: 24 Watt
- Coverage angle: 96°
- Light source: 192 LEDs (72 Red, 72 Green, 48 Blue)
- Music-controlled via built-in microphone
- Operating Modes: built-in programs, Auto run, DMX, Sound active, Master/Slave
- Fuse 1 A / 250V

### Overview



**Fig. 1**

1) Mountingbracket



## Backside

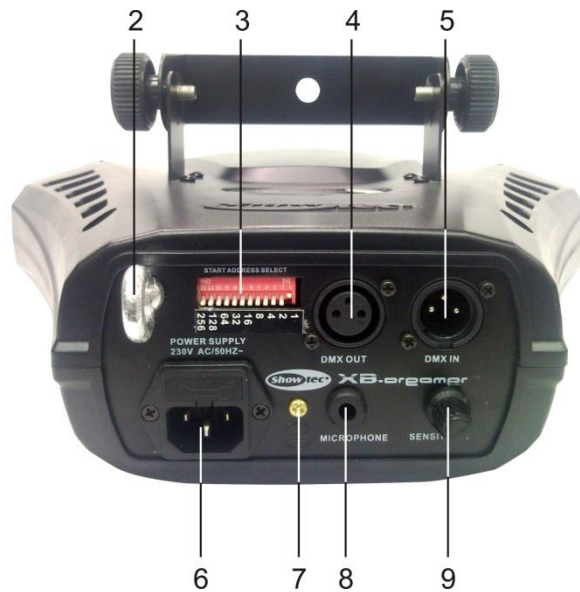


Fig. 2

- |                |                                      |
|----------------|--------------------------------------|
| 2) Safety Eye  | 6) IEC Powerconnector + Fuse 1A/250V |
| 3) Dipswitches | 7) Earth connection                  |
| 4) DMX Out     | 8) Built-in Microphone               |
| 5) DMX In      | 9) Audio Sensitivity                 |

## Installation

Remove all packing materials from the XB-Dreamer. 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.

When the mounting bracket (1) isn't fitted, you will first have to fit the mounting bracket in order to hang it from a ceiling. You can also place this device on the floor.

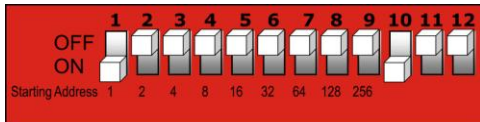
Connect the device to the main power supply. The device is music-controlled by its built-in microphone.

## Control Modes

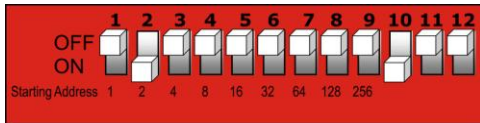
There are 4 Modes:   1) Custom Settings  
                              2) Sound-controlled  
                              3) Master/Slave  
                              4) DMX512 (10 Channels)

### One XB-Dreamer (Custom Mode)

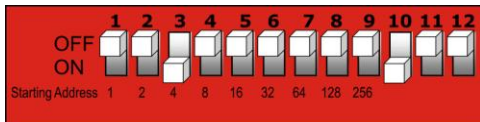
1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the XB-Dreamer is not connected by a DMX-cable, it functions as a stand-alone device.  
Dipswitch #10 must always be set to OFF for custom control.  
You can set dipswitch #1, #2, #3, #4, #5, #7, #8 or #9 to your desired operating mode.



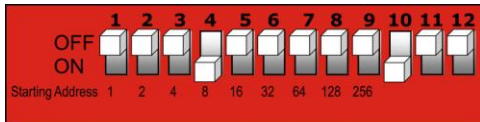
Single LED move from left to right and up to down



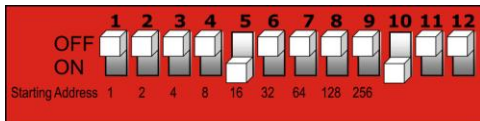
Single row LED move from up to down



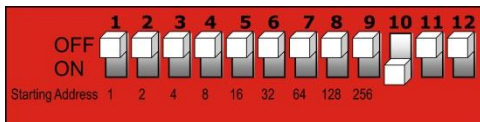
Single row LED move from left to right



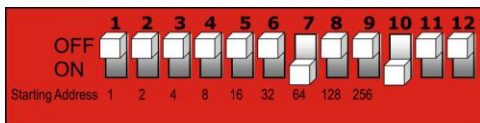
LED move from up to down and left to right



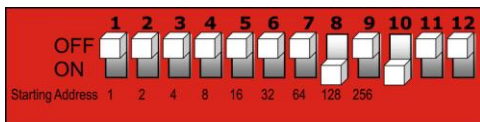
Top and Bottom row move from up to down and left to right



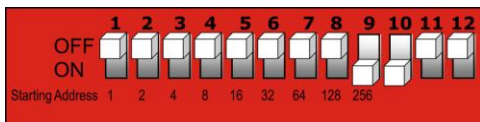
LED1.2.3.4 eye light bounce-Slow



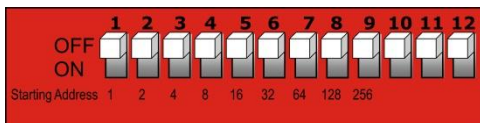
LED1.2.3.4 eye light bounce-Medium



LED1.2.3.4 eye light bounce-Fast



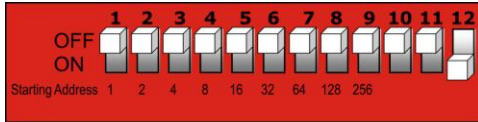
Strobe



Auto program

## One XB-Dreamer (Sound-control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.  
Plug the end of the electric mains power cord into a proper electric power supply socket.
2. The dipswitces have no influence during the Sound controlled modus.
3. When the device is not connected by a DMX-cable, it functions as a stand-alone device.  
For sound control dipswitch #12 must be set to ON. The other dipswitches must be OFF.  
Turn on the music, then the XB-Dreamer will react to the beat of the music.  
You can also adjust the Sensitivity, by using the sensitivity control.



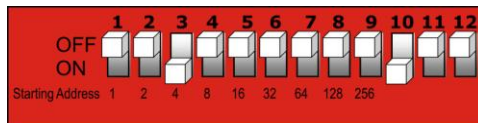
## Multiple XB-Dreamers (Master/Slave control)

1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Use a 3-p XLR cable to connect the XB-Dreamer.  
The pins:

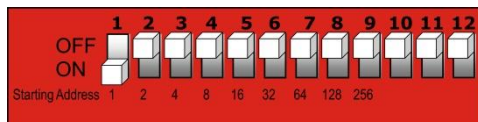


1. Earth
2. Signal -
3. Signal +

3. 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.
4. Set DMX dip switches as follows



**Master Control:** Use dipswitch #1-#12 to play your the desired mode.



**Slave Control:** Dipswitch #1 should be ON



You can use the same functions on the master device as described on page 8+9 (Custom and Music control)

This means on the master device you can use Dipswitch #1-#12 depending on your desired operation Mode and all slave devices will react the same as the master device.

## Multiple XB-Dreamers (Master/Slave control)

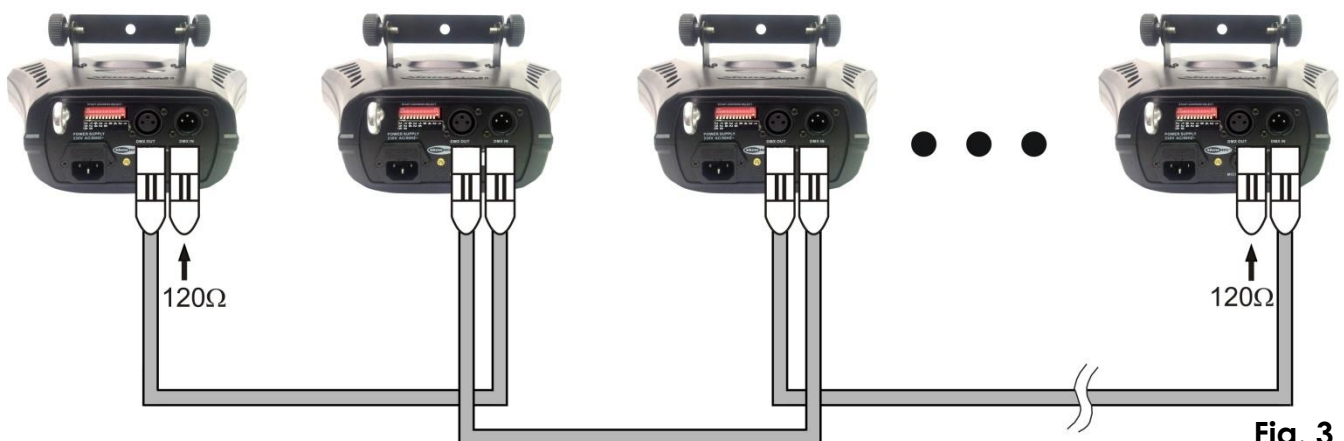
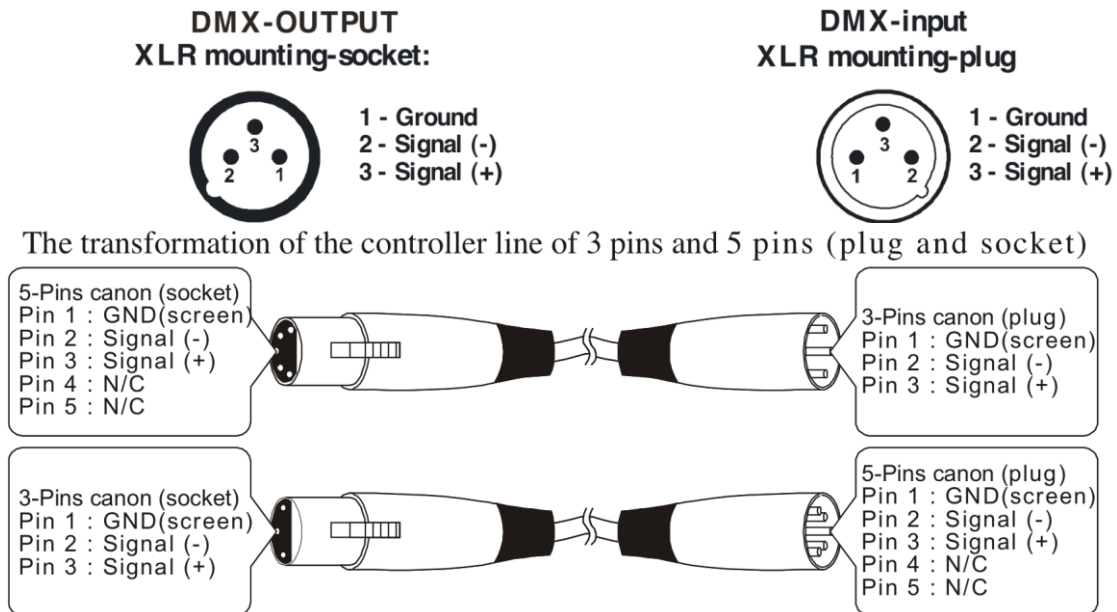


Fig. 3

## Multiple XB-Dreamers (DMX Control)

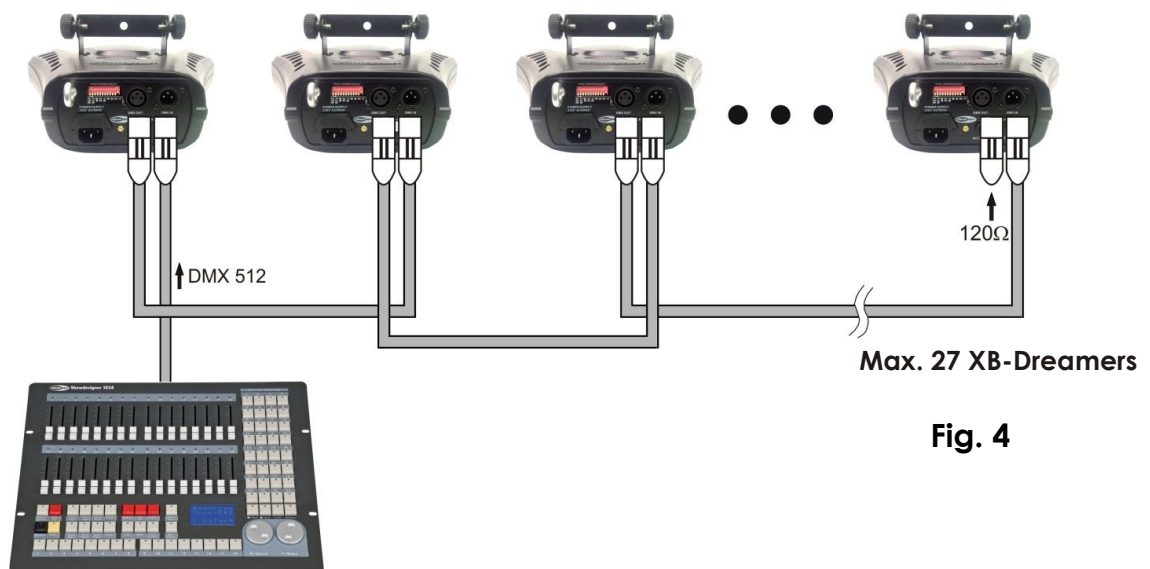
1. Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
2. Always use a safety cable (ordercode 70140 / 70141).
3. Use a 3-p XLR cable to connect the XB-Dreamers and other devices.

### Occupation of the XLR-connection:



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 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 XB-Dreamers (DMX)



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

After switching on, the XB-Dreamer will automatically detect whether DMX 512 data is received or not. If there is no data received, the problem may be:

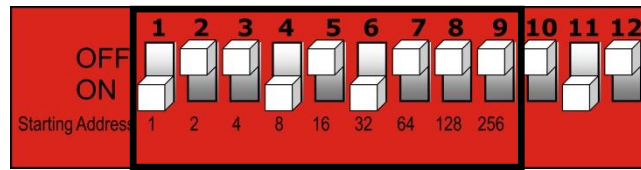
- The XLR cable from the controller is not connected with the input of the XB-Dreamer.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

**Note:** It'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.

## Dipswitch setting for DMX Mode

DMX products must have their own "address" to receive DMX signals.

Addresses on the controller are set by flipping the appropriate DMX dip switches #1 - #9.



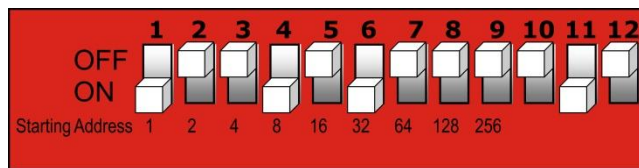
You need to know that DMX address settings are the sum of the dip switch values.

A standard DMX address for a Showtec XB-Dreamer, which has 8 channels is as follow:

### Example

**XB-Dreamer**      **Address Value**      **DMX Dip Switches "ON"**  
Unit 5                      41                      #1 , #4, #6

| Switch    | Value |
|-----------|-------|
| #1        | 1     |
| #4        | 8     |
| #6        | 32 +  |
| Total sum | 41    |



Explanation: Since each unit has 10 channels, each address advances 10 values (See Address Value above).

Once address values are determined, add DMX dip switch values to obtain the appropriate address (DMX Dip Switches "ON") for each unit. Flip appropriate DMX dip switches on each unit.

### Example:

1. If you want to give a XB-Dreamer DMX address 133, you first have to find the number 133 in the DMX Chart. (See page 11)
2. Then look at the left side (Dip Switches #1-#5) horizontally from 133.  
In the Table you'll see #1=ON, #2=OFF, #3=ON, #4=OFF, #5=OFF.
3. Finally look at the upper side of the table (Dip Switches #6-#9) vertically from 133.  
In the Table you'll see #6=OFF, #7=OFF, #8=ON, #9=OFF.

## DMX Address Quick Reference C

| DMX DIP SWITCH SET |    |    |    |    | #9 |    |    |     |     |     |   |
|--------------------|----|----|----|----|----|----|----|-----|-----|-----|---|
| 0=OFF              |    |    |    |    | #8 | 0  | 0  | 0   | 0   | 0   | 0 |
| 1=ON               |    |    |    |    | #7 | 0  | 0  | 1   | 1   | 0   | 0 |
|                    |    |    |    |    | #6 | 0  | 1  | 0   | 1   | 0   | 1 |
| #1                 | #2 | #3 | #4 | #5 |    |    |    |     |     |     |   |
| 0                  | 0  | 0  | 0  | 0  |    | 32 | 64 | 96  | 128 | 160 |   |
| 1                  | 0  | 0  | 0  | 0  | 1  | 33 | 65 | 97  | 129 | 161 |   |
| 0                  | 1  | 0  | 0  | 0  | 2  | 34 | 66 | 98  | 130 | 162 |   |
| 1                  | 1  | 0  | 0  | 0  | 3  | 35 | 67 | 99  | 131 | 163 |   |
| 0                  | 0  | 1  | 0  | 0  | 4  | 36 | 68 | 100 | 132 | 164 |   |
| 1                  | 0  | 1  | 0  | 0  | 5  | 37 | 69 | 101 | 133 | 165 |   |
| 0                  | 1  | 1  | 0  | 0  | 6  | 38 | 70 | 102 | 134 | 166 |   |



# DMX Address Quick Reference Chart

Dip Switch Position

| DMX DIP SWITCH SET<br><br>0=OFF<br><br>1=ON |    |    |    |    | #9 | 0  | 0  | 0   | 0   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1   | 1   | 1   | 1   |   |   |
|---------------------------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
|                                             |    |    |    |    | #8 | 0  | 0  | 0   | 0   | 1   | 1   | 1   | 1   | 0   | 0   | 0   | 0   | 1   | 1   | 1   | 1 | 1 |
|                                             |    |    |    |    | #7 | 0  | 0  | 1   | 1   | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 1   | 0   | 0   | 1   | 1 | 1 |
|                                             |    |    |    |    | #6 | 0  | 1  | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1   | 0   | 1 | 1 |
| #1                                          | #2 | #3 | #4 | #5 |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |   |   |
| 0                                           | 0  | 0  | 0  | 0  |    | 32 | 64 | 96  | 128 | 160 | 192 | 224 | 256 | 288 | 320 | 352 | 384 | 416 | 448 | 480 |   |   |
| 1                                           | 0  | 0  | 0  | 0  | 1  | 33 | 65 | 97  | 129 | 161 | 193 | 225 | 257 | 289 | 321 | 353 | 385 | 417 | 449 | 481 |   |   |
| 0                                           | 1  | 0  | 0  | 0  | 2  | 34 | 66 | 98  | 130 | 162 | 194 | 226 | 258 | 290 | 322 | 354 | 386 | 418 | 450 | 482 |   |   |
| 1                                           | 1  | 0  | 0  | 0  | 3  | 35 | 67 | 99  | 131 | 163 | 195 | 227 | 259 | 291 | 323 | 355 | 387 | 419 | 451 | 483 |   |   |
| 0                                           | 0  | 1  | 0  | 0  | 4  | 36 | 68 | 100 | 132 | 164 | 196 | 228 | 260 | 292 | 324 | 356 | 388 | 420 | 452 | 484 |   |   |
| 1                                           | 0  | 1  | 0  | 0  | 5  | 37 | 69 | 101 | 133 | 165 | 197 | 229 | 261 | 293 | 325 | 357 | 389 | 421 | 453 | 485 |   |   |
| 0                                           | 1  | 1  | 0  | 0  | 6  | 38 | 70 | 102 | 134 | 166 | 198 | 230 | 262 | 294 | 326 | 358 | 390 | 422 | 454 | 486 |   |   |
| 1                                           | 1  | 1  | 0  | 0  | 7  | 39 | 71 | 103 | 135 | 167 | 199 | 231 | 263 | 295 | 327 | 359 | 391 | 423 | 455 | 487 |   |   |
| 0                                           | 0  | 0  | 1  | 0  | 8  | 40 | 72 | 104 | 136 | 168 | 200 | 232 | 264 | 296 | 328 | 360 | 392 | 424 | 456 | 488 |   |   |
| 1                                           | 0  | 0  | 1  | 0  | 9  | 41 | 73 | 105 | 137 | 169 | 201 | 233 | 265 | 297 | 329 | 361 | 393 | 425 | 457 | 489 |   |   |
| 0                                           | 1  | 0  | 1  | 0  | 10 | 42 | 74 | 106 | 138 | 170 | 202 | 234 | 266 | 298 | 330 | 362 | 394 | 426 | 458 | 490 |   |   |
| 1                                           | 1  | 0  | 1  | 0  | 11 | 43 | 75 | 107 | 139 | 171 | 203 | 235 | 267 | 299 | 331 | 363 | 395 | 427 | 459 | 491 |   |   |
| 0                                           | 0  | 1  | 1  | 0  | 12 | 44 | 76 | 108 | 140 | 172 | 204 | 236 | 268 | 300 | 332 | 364 | 396 | 428 | 460 | 492 |   |   |
| 1                                           | 0  | 1  | 1  | 0  | 13 | 45 | 77 | 109 | 141 | 173 | 205 | 237 | 269 | 301 | 333 | 365 | 397 | 429 | 461 | 493 |   |   |
| 0                                           | 1  | 1  | 1  | 0  | 14 | 46 | 78 | 110 | 142 | 174 | 206 | 238 | 270 | 302 | 334 | 366 | 398 | 430 | 462 | 494 |   |   |
| 1                                           | 1  | 1  | 1  | 0  | 15 | 47 | 79 | 111 | 143 | 175 | 207 | 239 | 271 | 303 | 335 | 367 | 399 | 431 | 463 | 495 |   |   |
| 0                                           | 0  | 0  | 0  | 1  | 16 | 48 | 80 | 112 | 144 | 176 | 208 | 240 | 272 | 304 | 336 | 368 | 400 | 432 | 464 | 496 |   |   |
| 1                                           | 0  | 0  | 0  | 1  | 17 | 49 | 81 | 113 | 145 | 177 | 209 | 241 | 273 | 305 | 337 | 369 | 401 | 433 | 465 | 497 |   |   |
| 0                                           | 1  | 0  | 0  | 1  | 18 | 50 | 82 | 114 | 146 | 178 | 210 | 242 | 274 | 306 | 338 | 370 | 402 | 434 | 466 | 498 |   |   |
| 1                                           | 1  | 0  | 0  | 1  | 19 | 51 | 83 | 115 | 147 | 179 | 211 | 243 | 275 | 307 | 339 | 371 | 403 | 435 | 467 | 499 |   |   |
| 0                                           | 0  | 1  | 0  | 1  | 20 | 52 | 84 | 116 | 148 | 180 | 212 | 244 | 276 | 308 | 340 | 372 | 404 | 436 | 468 | 500 |   |   |
| 1                                           | 0  | 1  | 0  | 1  | 21 | 53 | 85 | 117 | 149 | 181 | 213 | 245 | 277 | 309 | 341 | 373 | 405 | 437 | 469 | 501 |   |   |
| 0                                           | 1  | 1  | 0  | 1  | 22 | 54 | 86 | 118 | 150 | 182 | 214 | 246 | 278 | 310 | 342 | 374 | 406 | 438 | 470 | 502 |   |   |
| 1                                           | 1  | 1  | 0  | 1  | 23 | 55 | 87 | 119 | 151 | 183 | 215 | 247 | 279 | 311 | 343 | 375 | 407 | 439 | 471 | 503 |   |   |
| 0                                           | 0  | 0  | 1  | 1  | 24 | 56 | 88 | 120 | 152 | 184 | 216 | 248 | 280 | 312 | 344 | 376 | 408 | 440 | 472 | 504 |   |   |
| 1                                           | 0  | 0  | 1  | 1  | 25 | 57 | 89 | 121 | 153 | 185 | 217 | 249 | 281 | 313 | 345 | 377 | 409 | 441 | 473 | 505 |   |   |
| 0                                           | 1  | 0  | 1  | 1  | 26 | 58 | 90 | 122 | 154 | 186 | 218 | 250 | 282 | 314 | 346 | 378 | 410 | 442 | 474 | 506 |   |   |
| 1                                           | 1  | 0  | 1  | 1  | 27 | 59 | 91 | 123 | 155 | 187 | 219 | 251 | 283 | 315 | 347 | 379 | 411 | 443 | 475 | 507 |   |   |
| 0                                           | 0  | 1  | 1  | 1  | 28 | 60 | 92 | 124 | 156 | 188 | 220 | 252 | 284 | 316 | 348 | 380 | 412 | 444 | 476 | 508 |   |   |
| 1                                           | 0  | 1  | 1  | 1  | 29 | 61 | 93 | 125 | 157 | 189 | 221 | 253 | 285 | 317 | 349 | 381 | 413 | 445 | 477 | 509 |   |   |
| 0                                           | 1  | 1  | 1  | 1  | 30 | 62 | 94 | 126 | 158 | 190 | 222 | 254 | 286 | 318 | 350 | 382 | 414 | 446 | 478 | 510 |   |   |
| 1                                           | 1  | 1  | 1  | 1  | 31 | 63 | 95 | 127 | 159 | 191 | 223 | 255 | 287 | 319 | 351 | 383 | 415 | 447 | 479 | 511 |   |   |

Dip Switch Position

DMX Address

## 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 27 devices should be connected on one data link. Connecting more than 27 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 XB-Dreamers on a DMX data link: 27 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 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.).

## DMX Channels

### Channel 1 – Colors

|         |                          |
|---------|--------------------------|
| 0-14    | Blackout                 |
| 15-19   | Red                      |
| 20-24   | Green                    |
| 25-29   | Blue                     |
| 30-34   | Red+Green                |
| 35-39   | Red+Blue                 |
| 40-44   | Green+Blue               |
| 45-49   | Red+Green+Blue           |
| 50-99   | Select CH2-CH10 DMX Mode |
| 100-255 | Built-in Auto Program    |

### Channel 2 – Built-in programs (Only works when CH1 is set between 50-99 )

|       |                        |
|-------|------------------------|
| 0-255 | Built-in Auto Programs |
|-------|------------------------|

### Channel 3 – Speed (Only works when CH1 is set between 50-99 )

|       |                         |
|-------|-------------------------|
| 0-255 | Speed from slow to fast |
|-------|-------------------------|

### Channel 4 – LED movement 1 (Only works when CH1 is set between 50-99 )

|       |                              |
|-------|------------------------------|
| 0-255 | Up to down from slow to fast |
|-------|------------------------------|

### Channel 5 – LED movement 2 (Only works when CH1 is set between 50-99 )

|       |                                 |
|-------|---------------------------------|
| 0-255 | Left to right from slow to fast |
|-------|---------------------------------|

### Channel 6 – LED movement 3 (Only works when CH1 is set between 50-99 )

|       |                                     |
|-------|-------------------------------------|
| 0-255 | Inside to outside from slow to fast |
|-------|-------------------------------------|

### Channel 7 – LED movement 4 (Only works when CH1 is set between 50-99 )

|       |                                                                |
|-------|----------------------------------------------------------------|
| 0-255 | Up to down, left to right, inside to outside from slow to fast |
|-------|----------------------------------------------------------------|

### Channel 8 – Strobe (Only works when CH1 is set between 0-99 )

|       |                          |
|-------|--------------------------|
| 0-255 | Strobe from slow to fast |
|-------|--------------------------|

### Channel 9 – Dimmer (Only works when CH1 is set between 0-99 )

|        |                                          |
|--------|------------------------------------------|
| 0-14   | Full On                                  |
| 15-255 | Dimmer intensity from brightest to black |

### Channel 10 – Lens Selection (Only works when CH1 is set between 0-99 )

|         |                      |
|---------|----------------------|
| 0-127   | 6 lenses illuminated |
| 128-190 | 4 lenses illuminated |
| 191-255 | 2 lenses illuminated |



## Maintenance

The Showtec XB-Dreamer 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 XB-Dreamer, as this may damage the unit and the warranty will become void.
5. Return the device 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 light effect does not operate properly, refer servicing to a technician.

Response: Suspect three potential problem areas: the power supply or the LEDs.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The LEDs. Return the XB-Dreamer to your Showtec dealer.
3. The fuse. Replace the fuse. See page 15 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 cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
2. 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.

## Product Specification

Model: Showtec XB-Dreamer

Power: AC 110-230V, 50Hz/60Hz

Power consumption: 24 Watt

Light source: 192 LEDs (72 Red, 72 Green, 48 Blue)

Coverage angle: 96°

3-pin DMX In and 3-pin DMX Out

DMX-controlled

10 DMX Channels

Music-controlled via built-in microphone

Blackout/static/strobe

Individual control of red, green and blue LEDs within each cluster (6 total)

Mount multiple units together with adjustable, optional bracket (XB-BRACKET)

Additional power output: max. 27 units @ 240V

Operating Modes: built-in programs, Auto run, DMX, Sound active, Master/Slave

Fuse 1A / 250V

Dimensions: 300x385x230mm (LxWxH)

Weight: 2,02 kg



### 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.



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