



User manual



X-DIMMER-1 PRO



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1. Safety instructions



- This device is suitable for indoor use only.
- All modifications to the device will void the warranty.
- Repairs are to carry out by skilled personnel only.
- Use only fuses of the same type and original parts as spare parts.
- Protect the unit from rain and humidity to avoid fire and electric shocks.
- Make sure to unplug the power supply before opening the housing.

1.1. FOR SAFE AND EFFICIENT OPERATION

Be careful with heat and extreme temperature

Avoid exposing it to direct rays of the sun or near a heating appliance.

Not put it in a temperature bellow 32°F /0°C, or exceeding 104°F /40°C.

Keep away from humidity, water and dust

Do not place the set in a location with high humidity or lots of dust.

Containers with water should not be placed on the set.

Keep away from sources of hum and noise

Such as transformer motor, tuner, TV set and amplifier.

To avoid placing on un-stable location

Select a level and stable location to avoid vibration.

Do not use chemicals or volatile liquids for cleaning

Use a clean dry cloth to wipe off the dust, or a wet soft cloth for stubborn dirt.

If out of work, contact sales agency immediately

Any troubles arose, remove the power plug soon, and contact with an engineer for repairing, do not open the cabinet by yourself, it might result a danger of electric shock.

Take care with the power cable

Never pull the power cable to remove the plug from the receptacle, be sure to hold the plug.

When not using the device for an extended period of time, be sure to disconnect the plug from the receptacle.



Important: Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems. Make sure the electrical connection is carried out by qualified personnel. All electrical and mechanical connections have to be carried out according to the European safety standards.

2. Introduction

Thanks for purchasing our product. Read the manual carefully before using our BOTEK X-DIMMER-1 PRO. This unit serves as a signal channel dimmer. A maximum of up to 6A loads are allowed on a single output, DMX address are addressed by flipping the dip switch. The dimmer is available in DMX Control Mode, Manual Dim Mode and features 0-10V analog input. The intensity of LED products can be dimmed in the Manual Dim Mode.

3. Delivery package

Check for transport damage.

You should be in possession of the following items:

- 1 X-DIMMER-1 PRO
- 1 Manual
- 1 Screwdriver
- 1 Connecting part

Should you discover transport damage after unpacking the equipment, inform the hauler immediately. Never connect a damaged device. You may also contact your supplier.



4. Technical data

Power requirement	12~24VDC 6.5A max.
Output (6A max.)	3-pin terminal connector for DMX out 4-pin terminal connector for LOAD
Input	2-pin terminal connector for Power In 2-pin terminal connector for Analog In 3-pin terminal connector for DMX In
Ingress Protection Rating	IP20
Housing	Black plastic
Control Protocol	DMX 512 (1990)
Connection	Terminal
Listing	CE certified
Operation temperature	0°C – 40°C
Dimensions (L x W x H)	90 x 40 x 20 (mm)
Weight	50g

5. Operation

5.1. DMX Control Mode (DMX Addressing)

In this mode, the dip switch 10 is flipped to the “ON” position. DMX address can be addressed and the intensity of LED products is dimmable.



DMX is short for Digital Multiplex. This is a universal binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.

Dip Switch	Address
1	1
2	2
3	4
4	8
5	16
6	32
7	64
8	128
9	256



START CH#	SWITCHES ON	START CH#	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	511	1,2,3,4,5,6,7,8,9

A DMX value (address) is set by combining the different dip switches that will add up to the value you wish to achieve, for example:

- Setting DMX address for 21. Flip switches 1, 3 & 5 to the "ON" position.
 $1=1, 3=4, 5=16$
 $1+4+16=21$
- Setting DMX address for 201. Flip switches 1, 4, 7 & 8 to the "ON" position.
 $1=1, 4=8, 7=64, 8=128$
 $1+8+64+128=201$

5.2. Manual Control Mode

In this mode, the dip switch 10 is flipped to the "OFF" position. Flip the dip switch 1~8 to set the intensity of LED products. Each dip switch represents a binary value.



Dip Switch	Address
1	1
2	2
3	4
4	8
5	16
6	32
7	64
8	128



Intensity Value	SWITCHES ON	Intensity Value	SWITCHES ON
1	1	11	1,2,4
2	2	12	3,4
3	1,2	13	1,3,4
4	3	14	2,3,4
5	1,3	15	1,2,3,4
6	2,3	:	:
7	1,2,3	:	:
8	4	:	:
9	1,4	:	:
10	2,4	255	1,2,3,4,5,6,7,8

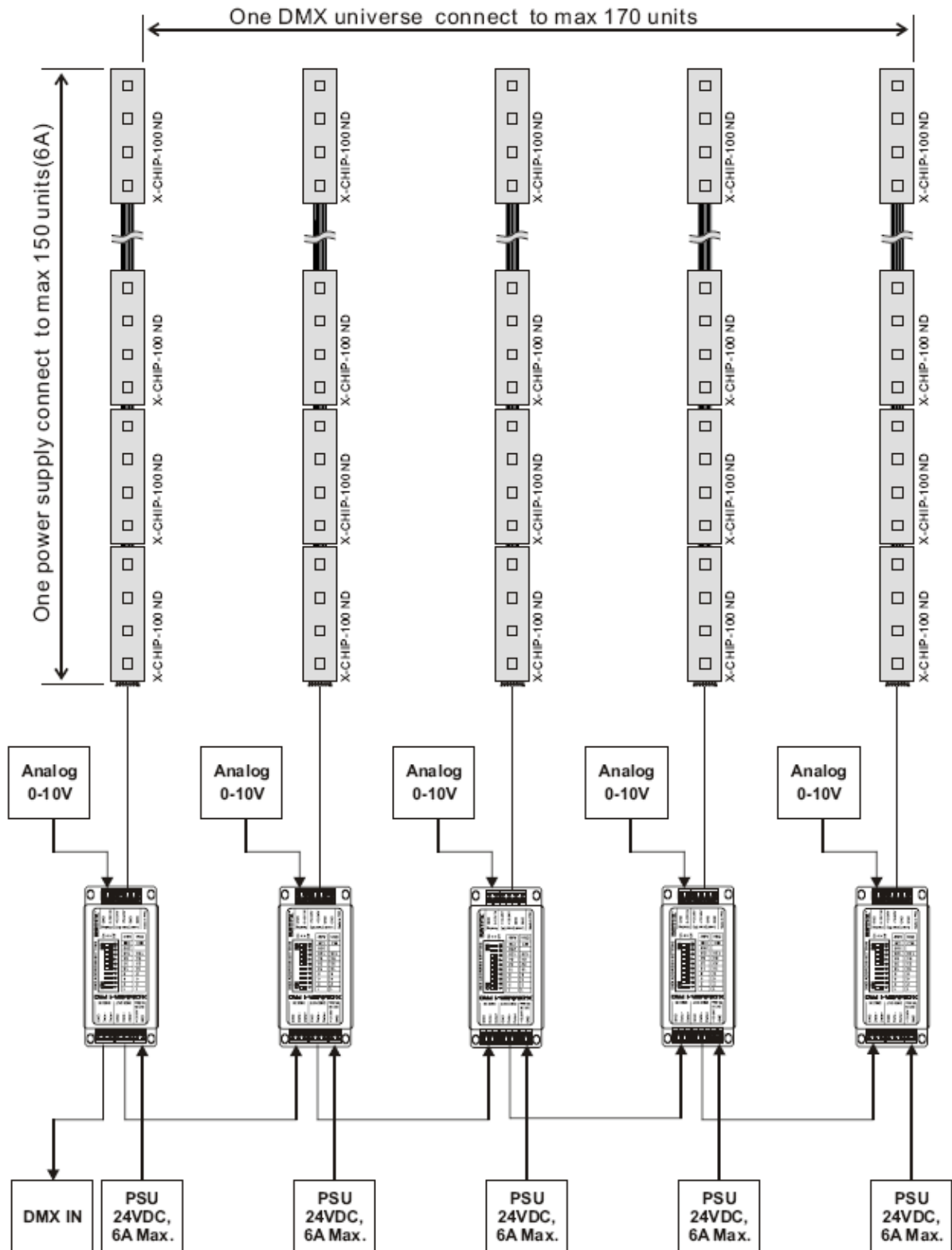
The intensity is set by combining the different dip switches that will add up to the value you wish to achieve for example:

- Setting the Intensity for 21. Flip switches 1, 3 & 5 to the “ON” position.
 $1=1, 3=4, 5=16$
 $1+4+16=21$
- Setting the Intensity for 201. Flip switches 1, 4, 7 & 8 to the “ON” position.
 $1=1, 4=8, 7=64, 8=128$
 $1+8+64+128=201$



6. Technical Drawing

Connecting the X-CHIP-100 ND modules to the X-DIMMER-1 PRO





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