

## X-BAR-PRO Instruction Manual

### Product Description

This is a waterproof LED lighting bar with fantastic lighting effect. It's RGB, WW, CW and Blue LEDs are available for user selection. We can also provide you 3 series X-BAR-PROs with different sizes as your desire. Such as **X-BAR-PRO-500**; **X-BAR-PRO-1000 series** (X-BAR-PRO-625 ,X-BAR-PRO-875, X-BAR-PRO-1000);**X-BAR-PRO-1500 Series** (X-BAR-PRO-1250,X-BAR-PRO-1500). More X-BAR-PRO can be connected for use. A proper system configuration must be established before performing this unit into application. Please read this manual thoroughly for operation guide in details.

### Programming

#### 1. Slave Control Mode

A LED Setup Tool (depicted here) \_XB-R1 is required to program the X-BAR-PROs Lighting. For further information, please refer to its accompanying manual. There are different **Work Modes** for Slave Control according to the desired X-BAR-PRO with different sizes as you desire. Please refer to followings:



A LED Setup Tool(XB-R1)  
(Sold separately)

- **X-BAR-PRO-500**

For **X-BAR-PRO-500**, there are **9 Work Modes** in **Slave Control, Work Modes** include:

4 RGB Mode	4 C&B Mode	4 COLOR Mode
2 RGB Mode	2 C&B Mode	2 COLOR Mode
1 RGB Mode	1 C&B Mode	1 COLOR Mode

- **X-BAR-PRO-1000 Series include 3 different sizes:**

**X-BAR-PRO-625( 5 RGB 625mm)**  
**X-BAR-PRO-875 ( 7 RGB 875mm)**      **X-BAR-PRO-1000 ( 8 RGB 1000mm)**  
**(X-Bar-PRO-1000-Blue is consulted by factory)**

For **X-BAR-PRO-1000 Series**, there are **12 Work Modes** in **Slave Control, Work Modes** include:

8 RGB Mode	8 C&B Mode	8 COLOR Mode
4 RGB Mode	4 C&B Mode	4 COLOR Mode
2 RGB Mode	2 C&B Mode	2 COLOR Mode
1 RGB Mode	1 C&B Mode	1 COLOR Mode

**NOTE:** the functions of X-BAR-PRO-1000 of Blue LEDs are same with X-Bar-PRO-1000 of RGB LEDs.

- **X-BAR-PRO-1500 Series include 2 different sizes:**

**X-BAR-PRO-1250( 10 RGB 1250mm)**  
**X-BAR-PRO-1500( 12 RGB 1500mm)**

For **X-BAR-PRO-1500 Series**, there are **18 Work Modes** in **Slave Control, Work Modes** include:

12 RGB Mode	12 C&B Mode	12 COLOR Mode
6 RGB Mode	6 C&B Mode	6 COLOR Mode
4 RGB Mode	4 C&B Mode	4 COLOR Mode
3 RGB Mode	3 C&B Mode	3 COLOR Mode
2 RGB Mode	2 C&B Mode	2 COLOR Mode
1 RGB Mode	1 C&B Mode	1 COLOR Mode

**\*NOTE:** Please refer to User Manual on the connected Setup Controller  
**C&B=Color And Bright**

**Take X-BAR-PRO-1000 as an example**, the followings are **12 Work Modes** and Parameter Details for **Slave Control**.

**MODE-1** Standard mode(24 channels in total=8x3 channels)

8 RGB mode: has 8 groups with RGB output, of which each group consists of 3 channels(24 channels in total).

Color(R/G/B)	Channel 1-24 / Group 1-8							
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Red	1	4	7	10	13	16	19	22
Green	2	5	8	11	14	17	20	23
Blue	3	6	9	12	15	18	21	24

**MODE-2** Color and intensity mode(16 channels in total=8x2 channels)

8 C&B mode: has 8 groups with color and intensity C&B output, of which each group consists of 2 channels (16 channels in total).

C & B	Channel 1-16 / Group 1-8							
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Color	1	3	5	7	9	11	13	15
Brightness	2	4	6	8	10	12	14	16

**MODE-3** Color mode(8 channels in total=8x2 channels)

(3) 8 COLOR mode: has 8 groups with Color control, of which each group consists of 1 channel (8 channels in total). The brightness is always 100% in this mode.

C & B	Channel 1-8 / Group 1-8							
	Output 1	Output 2	Output 3	Output 4	Output 5	Output 6	Output 7	Output 8
	Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Color	1	2	3	4	5	6	7	8
Brightness	100%	100%	100%	100%	100%	100%	100%	100%

**MODE-4** Patch mode RGB of 24 outputs---->12 outputs(4x3 channels)

4 RGB mode: in this mode, 2 outputs are patched. The driver has 4 identical outputs distributed over 8 groups.

Color (R/G/B)	Channel 1-12 / Group 1-4			
	Output 1-2	Output 3-4	Output 5-6	Output 7-8
	Group 1	Group 2	Group 3	Group 4
Red	1	4	7	10
Green	2	5	8	11
Blue	3	6	9	12

**MODE-5** Patch mode C&B of 16 outputs---->8 outputs(4x2 channels)

4 C&B mode: has 4 groups with C&B output, of which each group consists of 2 outputs that are controlled by 2 channels(8 channels ly).

C & B	Channel 1-8 / Group 1-4			
	Output 1-2	Output 3-4	Output 5-6	Output 7-8
	Group 1	Group 2	Group 3	Group 4
Color	1	3	5	7
Brightness	2	4	6	8

#### MODE-6 Patch mode Color of 8 outputs---->4 outputs(4x1 channels)

4 COLOR mode: has 4 groups with Color control, of which each group consists of 2 outputs that are controlled by 1 channel(4 channels in total). The brightness is always 100% in this mode.

C & B	Channel 1-4 / Group 1-4			
	Output 1-2	Output 3-4	Output 5-6	Output 7-8
	Group 1	Group 2	Group 3	Group 4
Color	1	2	3	4
Brightness	100%	100%	100%	100%

#### MODE-7 Patch mode RGB of 24 outputs---->6 outputs(2x3 channels)

2 RGB mode: in this mode, 4 outputs are patched. The driver has 12 identical outputs distributed over 2 groups.

Color (R/G/B)	Channel 1-6	
	Output 1-4	Output 5-8
	Group 1	Group 2
Red	1	4
Green	2	5
Blue	3	6

#### MODE-8 Patch mode C&B of 16 outputs---->4 outputs(2x2 channels)

2 C&B mode: has 2 groups with C&B output, of which each group consists of 4 outputs that are controlled by 2 channels (4 channels in total).

C & B	Channel 1-4/Group1-2	
	Output 1-4	Output 5-8
	Group 1	Group 2
Color	1	3
Brightness	2	4

#### MODE-9 Patch mode Color of 8 outputs---> 2 outputs(2x1 channel)

2 COLOR mode: has 2 groups with Color control, of which each group consists of 2 outputs that are controlled by 1 channel (2 channels in total). The brightness is always 100% in this mode.

C & B	Channel 1-2/Group1-2	
	Output 1-4	Output 5-8
	Group 1	Group 2
Color	1	2
Brightness	100%	100%

#### MODE-10 Patch mode RGB of 24 outputs---->3 outputs(3x1 channels)

1 RGB mode: in this mode, 8 outputs are patched. The driver has 24 identical outputs distributed over 1 group.

Color (R/G/B)	Channel 1-3
	Group 1/ Output 1-8
Red	1
Green	2
Blue	3

## MODE-11 Patch mode C&B of 16 outputs---->2 outputs(2x1 channels)

1 C&B mode: has 1 group with C&B output, which consists of 8 outputs that are controlled by 2 channels.

C & B	Channel 1-2
	Group 1/ Output 1-8
Color	1
Brightness	2

## MODE-12 Patch mode Color of 8 outputs---->1 outputs(1x1 channels)

1 COLOR mode: has 1 group with Color control, which consists of 1 output that is controlled by 1 channel. The brightness is always 100%.

C & B	Channel 1
	Group 1/ Output 1-8
Color	1
Brightness	100%

### NOTE:

1. The Glide Effect function can be switched on(YES) or off(NO). The transition from one level to another is smoother when this function is switched on.
2. When this function is switched off, the lighting intensity will changed from one level to another abruptly.(thus, when a quick lighting effect is required, the Guide Effect function should be switched off.)
3. If the DMX signal is interrupted, the driver will keep the last received DMX signal(information) until the driver is switched off or a new and valid DMX signal is sent.

## **2.Master Control**

AUTO mode and MANUAL mode are for Master Control. Relevant functions are as below:

### (1) AUTO mode:

Preset programs:1-10 programs and "AUTO" program ("AUTO"program is the sequential running of these1-10 programs.)

Auto Speed: 1~100. Auto Fadetime: 0%~100%.

### (2) MANUAL mode:

BLUE/ Duration: 0%~100%. RED / Speed : 0%~100%. GREEN / Dimmer: 0%~100%.

### NOTE:

1. The LEDs will turn red in Slave Control mode.

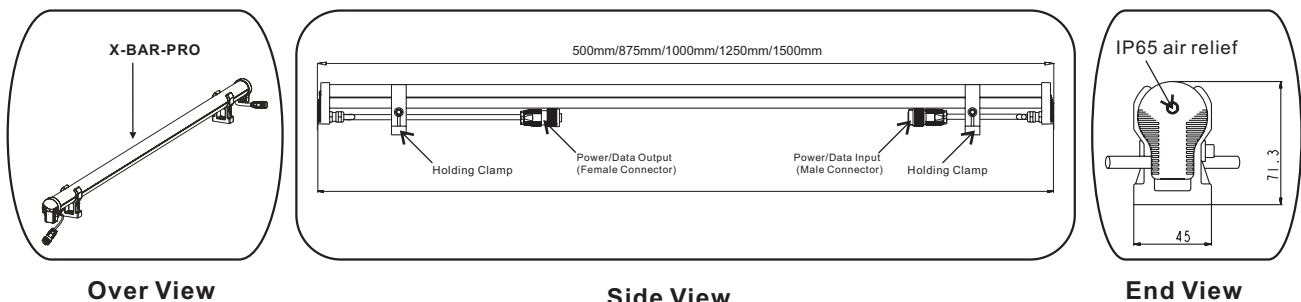
The LEDs will give responding sensitive when the parameters are adjusted in Master Control.

2. If the LED is not selected in "Setup with answer", it will turn red.

If the LED is not selected in :Setup no answer", it will switch off.

When the user confirms the settings of the LED products, the LEDs will flash momentarily to confirm that the setting have been saved.

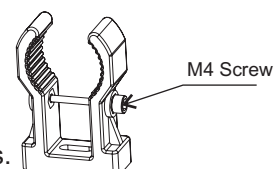
## **Schematic Diagram**



## **Accessories**

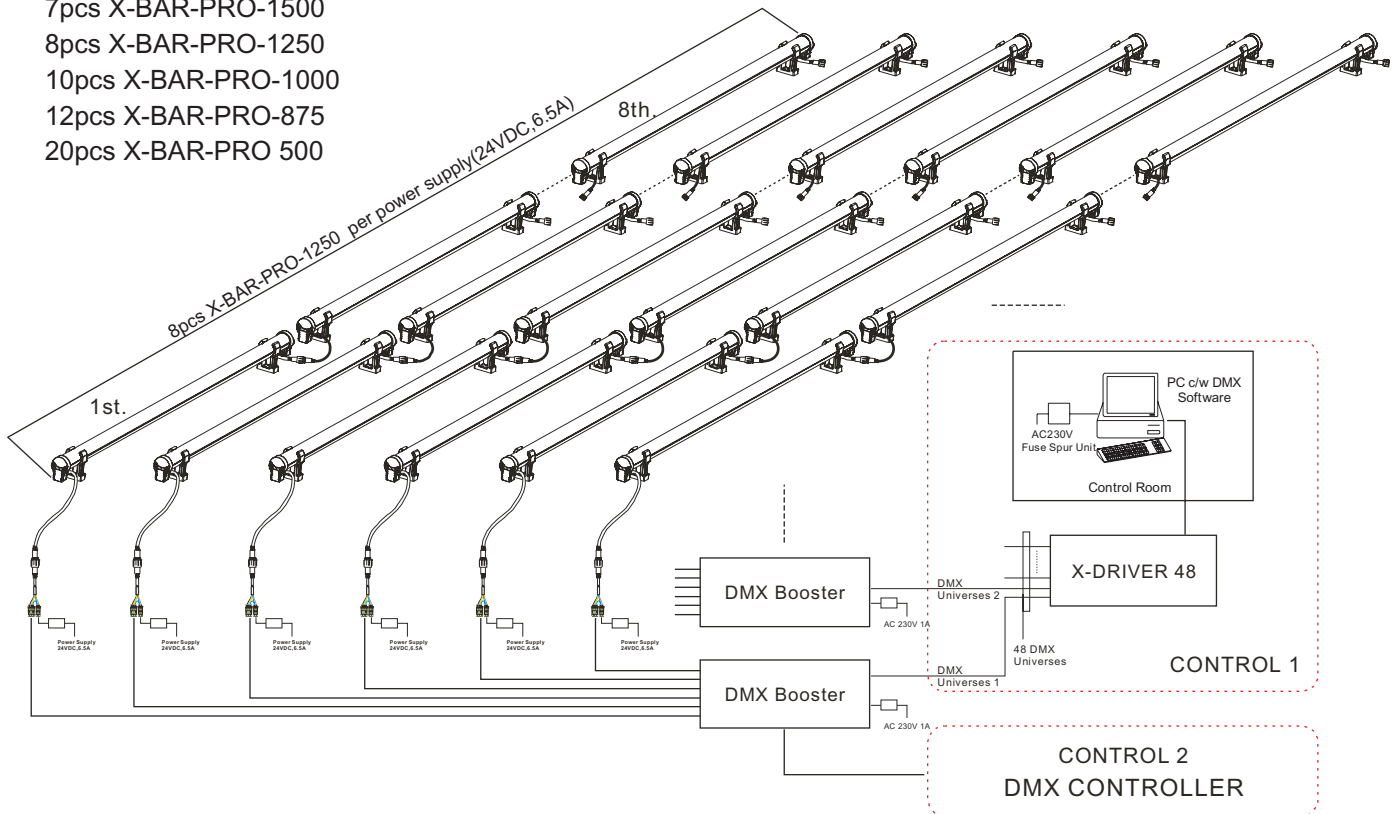
Holding clamp- 2pcs holding clamps per X-BAR-PRO.

NOTE: M4 hexagon screw is used to tighten and secure your X-Bar-PROs.

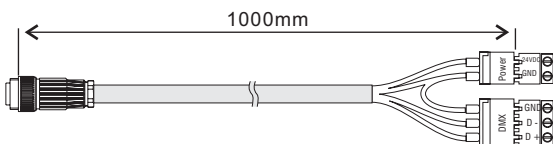


## Appendix: System Connection

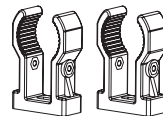
1pcs power supply(24VDC,6.5A) and 1pcs Power/Data starter cable can drive up to  
 7pcs X-BAR-PRO-1500  
 8pcs X-BAR-PRO-1250  
 10pcs X-BAR-PRO-1000  
 12pcs X-BAR-PRO-875  
 20pcs X-BAR-PRO 500



Remark: Add signal repeater if data cable over 100m



Power/Data Starter cable per 8pcs X-BAR-PRO



2 x Holding clamp



2 x M4 Screw

The Power/Data Cable is used to connect your X-BAR-PROs with the power device and the DMX Controller. Please notice its above pin assignment.

### **\*Note:**

- Before installation, make sure the end with built-in IP 65 air relief should be downward.
- As the above illustration shows, how many X-BAR-PROs that 1pcs power supply and 1pcs power/data cable can drive depends on the current of the power supply.
- Only when using the same series in link, the Master X-BAR-PRO can control the activity of Slave X-BAR-PROs.
- In case you have to use different series in link, you can control the activity of all desired X-BAR-PROs by an external DMX Controller.
- Please connect the power/data cable and the DMX controller correctly indicated by the above illustration.

### **\*Special Note:**

- For reducing signal errors and avoiding signal transmission problems and interference, it is always advisable to connect 120 ohm impedance DMX signal cable and DMX terminator for signal connection.
- X-BAR-PRO applies to graphical display. When its working Gross Power exceeds 80% of the Maximum Power, the duration should not exceed 30 minutes. Otherwise the product capability especially the operation life will be affected.

## Technical Specifications

Power Requirement.....	24VDC, 250mA for X-BAR-Pro-500
.....	24VDC, 400mA for X-BAR-Pro-875
.....	24VDC, 450mA for X-BAR-Pro-1000
.....	24VDC, 550mA for X-BAR-Pro-1250
.....	24VDC, 650mA for X-BAR-Pro-1500
Lighting source.....	RGB, WW,CW or Blue LEDs
IP rating.....	IP 65
Dimensions.....	Ø=35mm
Accessories(Included).....	1xPower/Data cable
	2xHolding Clamps per X-BAR-PRO

### Caution!

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- Improvements on specifications, design and this manual are subject to change without any prior notice.