

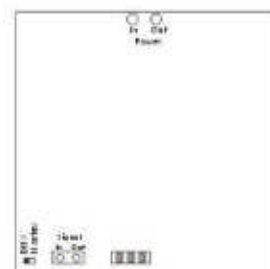
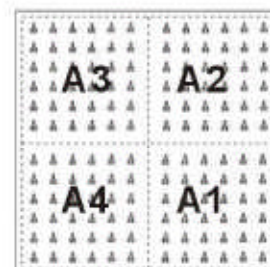
# LED PANEL-SLIM TYPE

ITEM NO.:  
**LED PAN-50x50-slim type**

## INSTRUCTION OF LED PAN-50x50-Slim type

### A. Technical parameters

Size: 500\* 500\* 50mm  
Weight: 3.5kgs  
Material: ABS  
LED quantity: 432Pcs (R-144,G-144,B-144)  
Working temp.: -20℃ ~ 45℃  
Working humidity: 0~95%  
Input Volt.: AC 100~240V  
Working Volt.: DC 24V  
Working current: 1.50A  
MAX Power: 36W  
Protection: IP 20



### B. Working mode

Independent mode: with remote controller  
Master / Slave mode  
DMX mode

### C. Function and setup

#### C-1 Independent mode

Choose the functions, pattern, combination of color and brightness as well speed, please refer more details to instruction of remoter controller.

#### C-2 Master/Slave mode

Once many pieces panel have been connected together, switch one panel to Master, and others in DMX, then the panels will work under Master/Slave mode, the remote controller is only valid to Master one, all the rest panels will synchronously work as per Master panel.

#### C-3 DMX mode

Switch the panel into DMX mode, then use the remote controller to set up the address of each panel, the digital LED on the back will show the number.

DMX channel Sheet

| 1st CH in DMX controller | 1-50        | 51-100         | 101-150        | 151-200        | 201-255        |
|--------------------------|-------------|----------------|----------------|----------------|----------------|
| Combine                  | A1+A2+A3+A4 | A1+A2, A3+A4   | A1+A4, A2+A3   | A1+A3, A2+A4   | A1, A2, A3, A4 |
| CH1                      | R: 0~255    | R/A1+A2: 0~255 | R/A1+A4: 0~255 | R/A1+A3: 0~255 | R/A1: 0~255    |
| CH2                      | G: 0~255    | G/A1+A2: 0~255 | G/A1+A4: 0~255 | G/A1+A3: 0~255 | G/A1: 0~255    |
| CH3                      | B: 0~255    | B/A1+A2: 0~255 | B/A1+A4: 0~255 | B/A1+A3: 0~255 | B/A1: 0~255    |
| CH4                      | NULL        | R/A3+A4: 0~255 | R/A2+A3: 0~255 | R/A2+A4: 0~255 | R/A2: 0~255    |
| CH5                      | NULL        | G/A3+A4: 0~255 | G/A2+A3: 0~255 | G/A2+A4: 0~255 | G/A2: 0~255    |
| CH6                      | NULL        | B/A3+A4: 0~255 | B/A2+A3: 0~255 | B/A2+A4: 0~255 | B/A2: 0~255    |
| CH7                      | NULL        | NULL           | NULL           | NULL           | R/A3: 0~255    |
| CH8                      | NULL        | NULL           | NULL           | NULL           | G/A3: 0~255    |
| CH9                      | NULL        | NULL           | NULL           | NULL           | B/A3: 0~255    |
| CH10                     | NULL        | NULL           | NULL           | NULL           | R/A4: 0~255    |
| CH11                     | NULL        | NULL           | NULL           | NULL           | G/A4: 0~255    |
| CH12                     | NULL        | NULL           | NULL           | NULL           | B/A4: 0~255    |

\*\*\* In order to use the pannel more conveniently, address the panel will be from 002, because the 1st Channel in DMX controller/console will be always used to define the combination of the A1,A2,A3,A4!!!

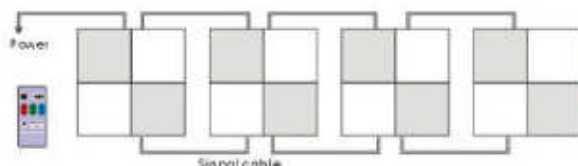
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## D. Connection:

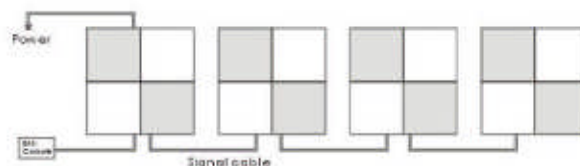
### INDEPENDENT MODE/ Master/Slave MODE (with remote controller)

- \*\*\* Signal amplifier is required between every 30 piece!!!  
\*\*\* Only one switch in the back of panel in Master, rest in DMX position.



### DMX MODE

- \*\*\* Signal amplifier is required between every 30 piece!!!  
\*\*\* ALL switch in the back of panel in DMX position.

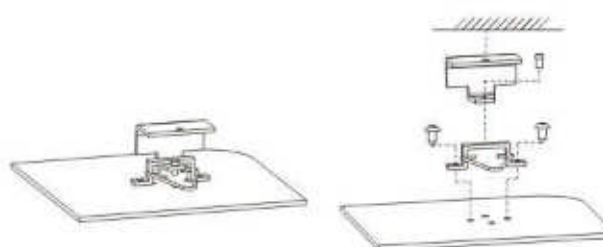


## E. Installation

Please see right picture for installation reference:

## F. Caution

1. Do not plug them into power when the Panel is still in package;
2. Make sure that the screen was safely and reliable connected.
3. Make proper steps to the connection to avoid shock;
4. Do not use the Panel when the light was damaged;
5. Make installation under guide of this manual;
6. Do not dismantle the products.



## Appendix

### Remoter for LED Panel-50x50-Slim

#### A. Specification and technical parameters:

|                              |                           |
|------------------------------|---------------------------|
| Outer size:                  | 86x40x6.7mm               |
| Signal emitting:             | Infrared emit             |
| Power source:                | Cell button battery       |
| Operating temperature:       | -20℃ ~ 45℃                |
| Operating humidity:          | 0-95%                     |
| Remote Controlling distance: | Max. 6 m (point to point) |



#### B. Panel & Remoter

| PRODUCT | SWITCH ON THE BACK OF PANEL                                                                                                                                                 |                                                                                                                                                                                                                                                      | REMARK                                                                                                                                                                                                                                                                               |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | DMX                                                                                                                                                                         | MASTER                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                      |
| PANEL   | 1. Receiving IR signal from remoter for DMX addressing.<br>2. Receiving DMX signal from DMX controller via XLR-3.<br>3. As slave panel, receiving signal from Master panel. | 1. Receiving IR signal from remoter for built-in programs.<br>2. As Master panel, sending signal to Slave panels, to work synchronously in built-in programs.                                                                                        | Master panel is forbidden used in DMX system, and more than two Master Panel is forbidden used in Master/slave mode, if under the two error mode, di, di... voice will be emitted from the panel continuously!<br>Please correct it immediately, avoid any damage to the products!!! |
| REMOTER | 1. All button invalid in this mode except <b>DMX</b> .<br>2. Press button <b>DMX</b> to set up the DMX address.                                                             | 1. All button is valid, sending the IR signal to panel for choosing the built-in programs adjusting parameters. Please see details via button specification sheet.<br>2. <b>DMX</b> is equal Auto Run, including: Strobe, static, fading and change. | When DMX addressing:<br>                                                                                                                                                                                                                                                             |

\*\*\*Any panels can be controlled by any remoters!!!

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## C. Description of button



Power on/off. Please note the off status stop the signal output ONLY, please cut off the power supplier (unplugging) for saving energy. In off status, all buttons are invalid.

| Button                                                                              | Description                                                                                                                                                                                    |    |  |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | Selection on area combination/Option:<br>1: A1, 2: A2, 3: A3, 4: A4, 5: A1A2, 6: A2A3,<br>7: A3A4, 8: A1A4, 9: A1A3, 10: A2A4, 11: A1A2A3,<br>12: A2A3A4, 13: A1A3A4, 14: A1A2A4, 15: A1A2A3A4 | /                                                                                                                                                                                                                                                          | Option: 1~15                                                                        |
|    | Strobe of 7 color/Option:<br>1: Red, 2: Green, 3: Blue, 4: Yellow, 5: Cyan, 6: Purple,<br>7: White, 8: Auto RUN                                                                                | R: 0~255; G: 0~255<br>B: 0~127<br>***Brightness of each options;                                                                                                                                                                                           | Speed: 0~10                                                                         |
|    | Fading of 7 color/Option:<br>1: Red, 2: Green, 3: Blue, 4: Yellow, 5: Cyan, 6: Purple,<br>7: White, 8: Auto RUN                                                                                | R: 0~255; G: 0~255<br>B: 0~255<br>***Brightness of each options;                                                                                                                                                                                           | Speed: 0~10                                                                         |
|    | Static of 7 color/Option:<br>1: Red, 2: Green, 3: Blue, 4: Yellow, 5: Cyan, 6: Purple,<br>7: White                                                                                             | R: 0~255; G: 0~255<br>B: 0~255<br>***Brightness of each options;                                                                                                                                                                                           | Dimmer: 0~100                                                                       |
|  | Changing of 7 color/Option:<br>1: A1→A2→A3→A4 (as a big circle)<br>2: A4→A3→A2→A1 (anticlockwise)<br>3: A1→A2→A3→A4 (clockwise)                                                                | R: 0~255; G: 0~255<br>B: 0~255<br>***Brightness of each options;                                                                                                                                                                                           | Speed: 0~10                                                                         |
|  | DMX addressing/Switch in DMX position<br>Range: 002-510                                                                                                                                        | R: 0~5; G: 0~9; B: 0~9<br>***Slowed in numeric LED on the back                                                                                                                                                                                             | DMX Add: 002~510                                                                    |
|                                                                                     | Auto Run/Switch in Master position                                                                                                                                                             | R: 0~255; G: 0~255<br>B: 0~255<br>***Brightness of each options;                                                                                                                                                                                           | Cycle: 1~10                                                                         |

## Cautions:

1. Please read the manual carefully before using the products.
2. Please take out of the battery from the remote controller if out of use in a long time.
3. Please change the battery if the remote controller can't control screen light fluently.
4. Do not press the Addr during application, if the address of the lighting has been set.
5. Do not shield the receiver or emitter in product.

## Warning!!!

1. The panel can be only addressed when switch position(back of panel) on DMX side, and without connection to any DMX signal or in Master/slave;
2. Please addressing the panel separately BEFORE installation, avoid any mistake or repeated work after installation; If one panel need to be re-addressed after installation, please dismantle it from system and setup the DMX address solely;
3. Remoter controller is forbidden to be used in DMX mode AFTER installation or during application!
4. When di, di, di... voice be emitted from the panels continuously, please checking the panels and correct setup immediately, so as to avoid any damage to the products!!!
5. If the panel with rear switch on DMX position cannot receive signal from DMX controller or Master panel, it will enter into blackout automatically.
6. Do not adjust Master/DMX switch on the back of panel during OFF status via button of remote controller, which will lead to failure of proper working.