



JC50-64 Color Wall Panel Instruction

A. Technical Parameter

Voltage	Power	Size	Weight	Work Temp.	Material	environment
DC9V/3A	27W	500*500*60MM	4.5KG	-10°C-40°C	Acrylic +LED	Indoor

B. Packaging and Accessories

1、JC50-64 Color Wall Panel



2、Controller and Accessories

A、UE-TXV2 out line controller B、UE-TXV1 in line controller C、Signal conversion line



D、Signal and power Extension line



E、manual



F、software



G、power

H、UE-TXV2 out line controller signal internet line

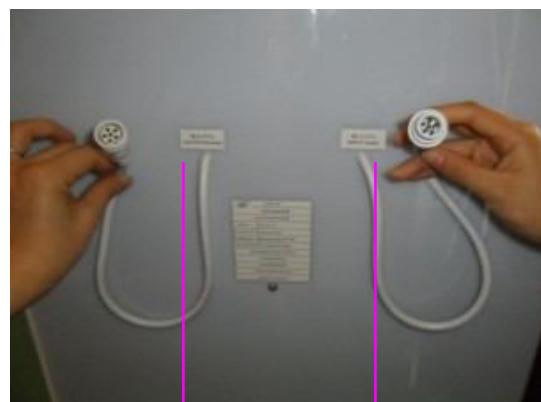


I、 UE-TXV1 in line controller signal internet line (Online control signal cable arrangement with the network cable is different, please note that the label on the packaging)

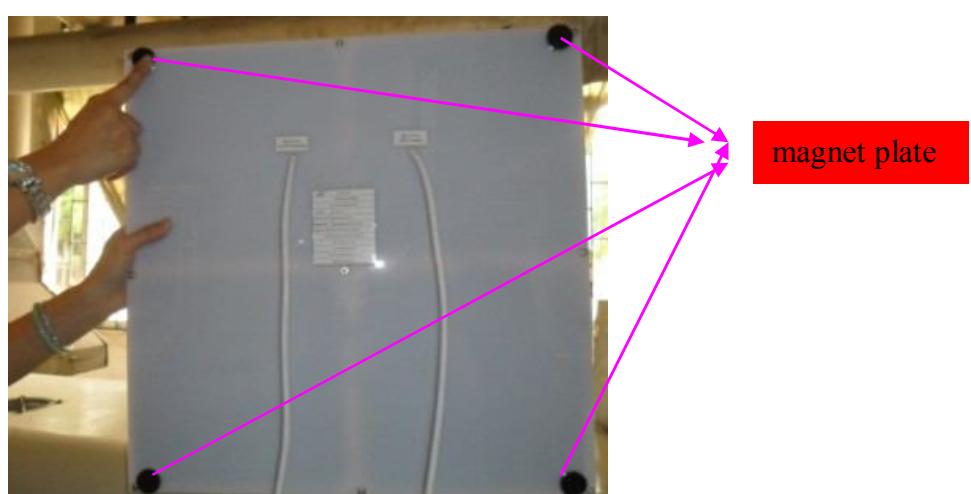


C. Functional Characteristics

- 1, Controlled by UE-TXV2 /UE-TXV1 controller, any editing program can be run, you can DIY.
- 2, PWM output resolution of 256 grey.
- 3, changes in the soft, new brilliant colors can be animated effects.
- 4, comes with built-in programs can be run stand-alone method.



Female OUTPUT Male INPUT



magnet plate

D. UE-TXV2 out line Color controller main function:



UE-TXV2 out line Controller Instruction

1、Controller parameters

A. Processing capacity

- (1) Chip: TM1803/4
- (2) Ports: 8
- (3) Load capacity per port: ≤ 1024
- (4) The maximum amount of system control: ≤ 131072
15 frames / sec

B. Transfer / interface

- (1) transmission mode: Synchronization between the controller and the controller signal transmission using UTP cable or RS485

- (2) transmission distance:

C. Voltage/Power

Voltage: 5VDC

Power: 8W

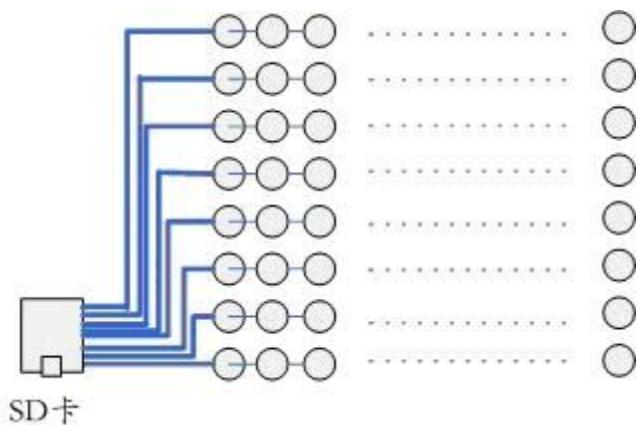
D. Physical parameters

(1)Size: 175mm (L) *90mm (W) *30mm (H)

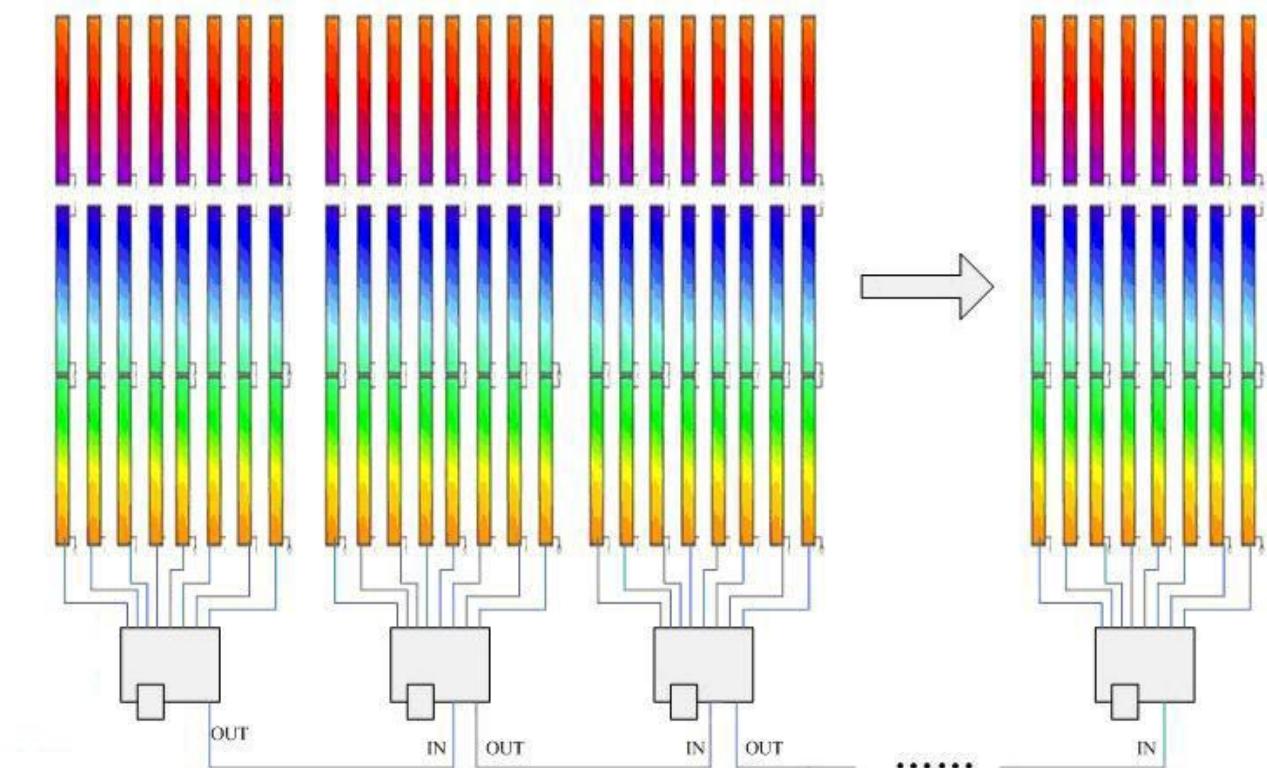
(2)Physical Weight: 0.6KG

transmission mode	transmission distance
Controller OUT To Controller IN	≤ 400 Meters
TTL	≤ 40 Meters
RS485	≤ 300 Meters

2、Control system framework



Framework of a single controller (the controller can store up to 16 files, multiple files will be copied to an SD card)



1. Offline playing, Synchronization signal line.
2. 8 Ports Output, each port can load 512/1024 lights, each controller can load 4096/8192 lights. (each port load 512 lights, the speed can be reach 30 frames/sec, if more than 512 lights, the speed will reduce.
3. Can split the screen, can play more than one combination of large-scale video.
4. Unlimited expansion controllers.
5. Automatic identification and set the first controller as main control, others is sub-controller.

Framework for multiple controllers (Software will create multiple *.LED files, then copy the files to each homologous controller.)



Then, respectively: “1.led” copied to first controller SD card, “2.led” copied to second controller SD card, “3.led” copied to third controller SD card, “4.led” copied to fourth controller SD card.

3、Product Picture



Front of controller

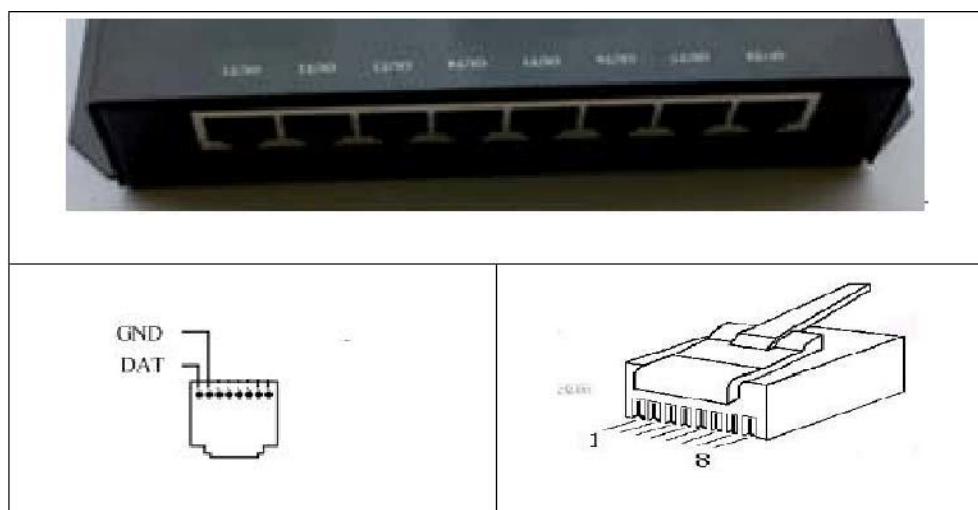


Rear of controller

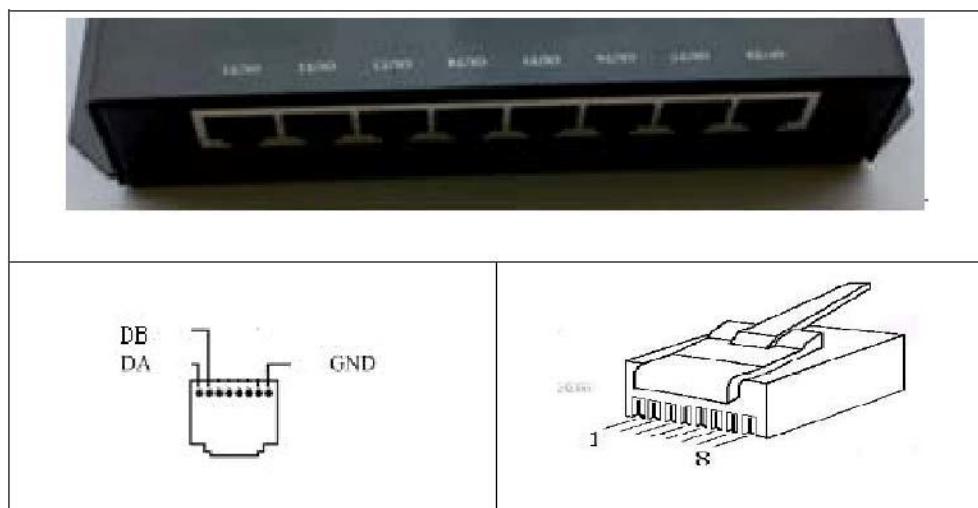
4、Connection Definition

(a) Signal wiring

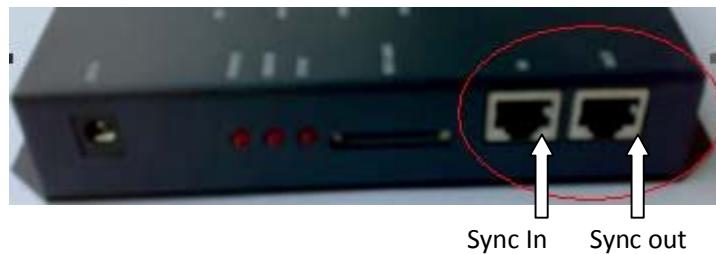
(1) TTL Interface Connection:



(2) fRS485 Interface Connection::



(b) Controllers TO Controller Wiring: UTP straight-through cable



Note: Use UTP straight-through cable for multiple controllers' connection, the distance between two controllers maximum 1000 meters.

5、Status Indicator

6、Key features

DC5V	+5V Power supply in
POWER	Power LED
ERROR	Error LED
SYNC	Synchronization signal indicator
SD CARD	SD Card Slot

SPEED-	Speed Down
SPEED+	Speed Up
MODE	Switch program
SET	Save Settings (If you press the SET button, the current settings file and the playback speed is saved, click here to play after the next power on) .

Note: In the case of multiple controllers, only the main controller (No.1 machine) the key is work, others sub-controllers' key does not work.

7、Memory card parameters

Type: SD Card (High-speed card is recommended if large number lights)

Capacity: 256MB—2GB

Format: FAT16 (when you format the card, select FAT)

Document: *.led

Operation: Power plug (not hot-swap)

E、UE-TXV1 in line controller instruction

1 Description of controller parameters

(a) Processing capability

- (1) Support chip: TM1803/4
- (2) Port amount: 8
- (3) Port load: ≤ 640
- (4) Maximal system control quantity: ≤ 131072
- (5) Frame frequency: 25 frames/s

(b) Transport/interface

- (1) Transport mode: the connection from computer to switch, from switch to switch and from switch to controller is based on the Cat5e cable.
- (2) Interface output: RJ45 (TTL or RS485)
- (3) Transport distance:

Transport mode	Transport distance
Computer \rightarrow switch	
Switch \rightarrow switch	$\leq 100m$
Switch \rightarrow controller	
TTL	$\leq 40m$
RS485	$\leq 300m$

(c) Power supply/power consumption

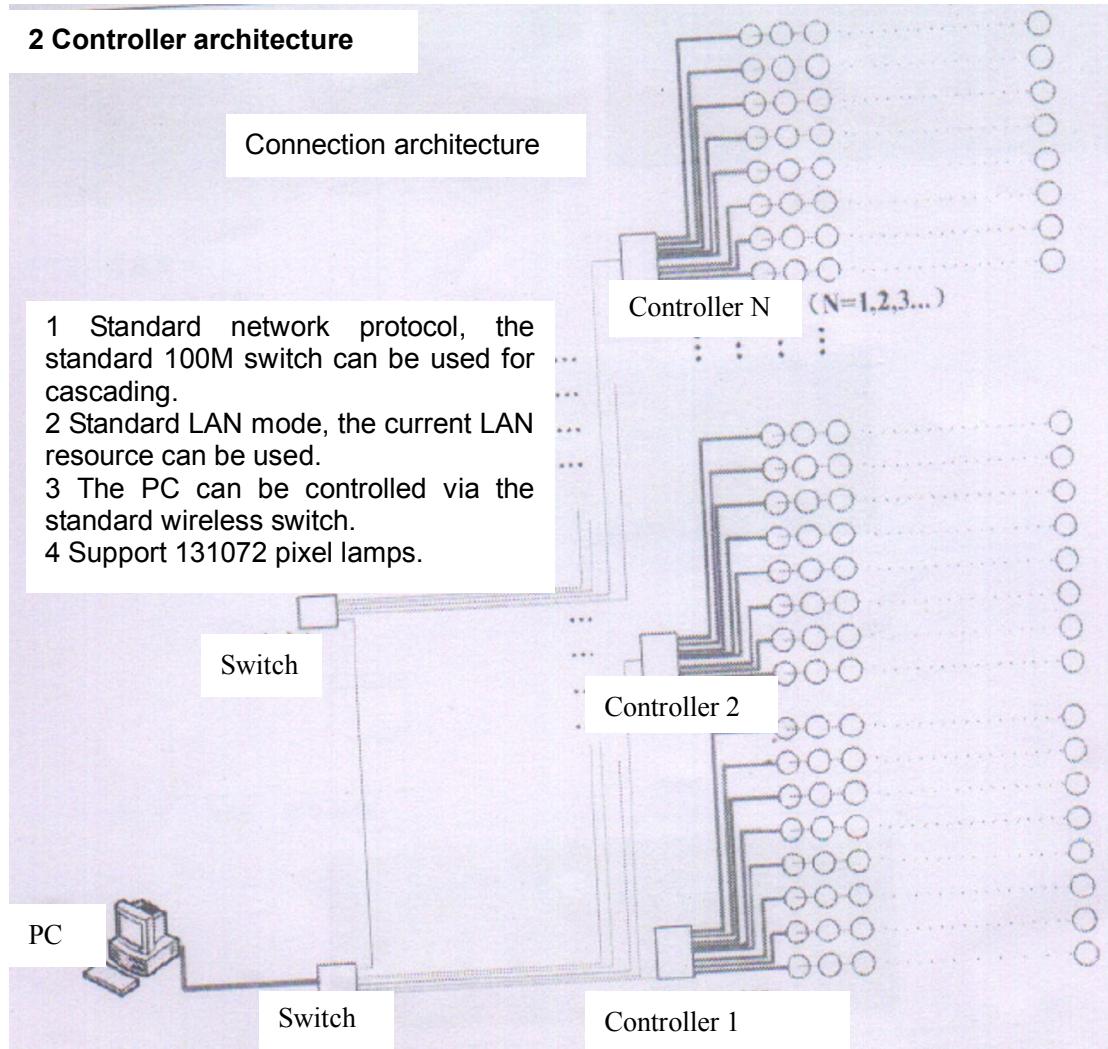
- (1) Power voltage: AC180V~240V/50Hz
- (2) Rated power consumption: 15W

(d) Physical parameters

(1) Dimension: 175mm (L) * 164mm (W) * 45mm (H)

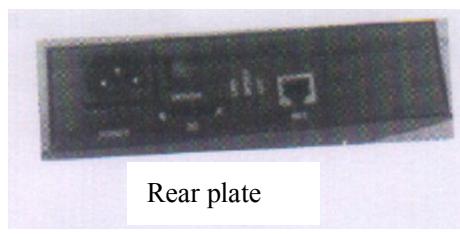
(2) Physical weight: 1.1 KG

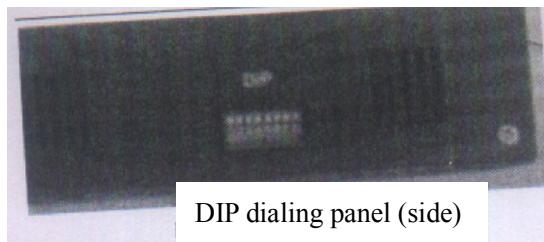
2 Controller architecture



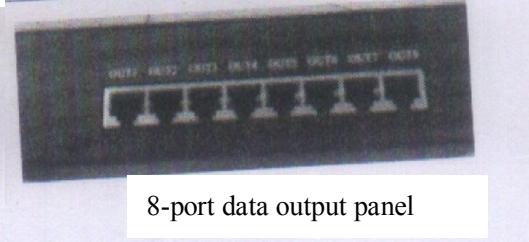
- (a) The controller must set the corresponding number via the DIP switch on the side plate.
- (b) If the control pixels are less than 50000, 10~100M self-adapted switch can be used. If the control pixels are over 50000, 1000M switch is recommended.
- (c) For single controller, it can be directly connected with the PC.

3 Appearance image





DIP dialing panel (side)

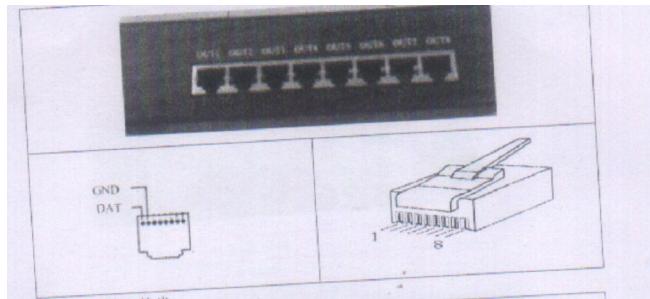


8-port data output panel

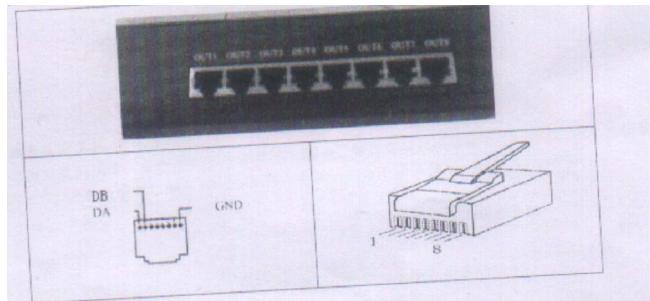
4 Wiring definition

(a) Signal wiring

(1) TTL interface wiring

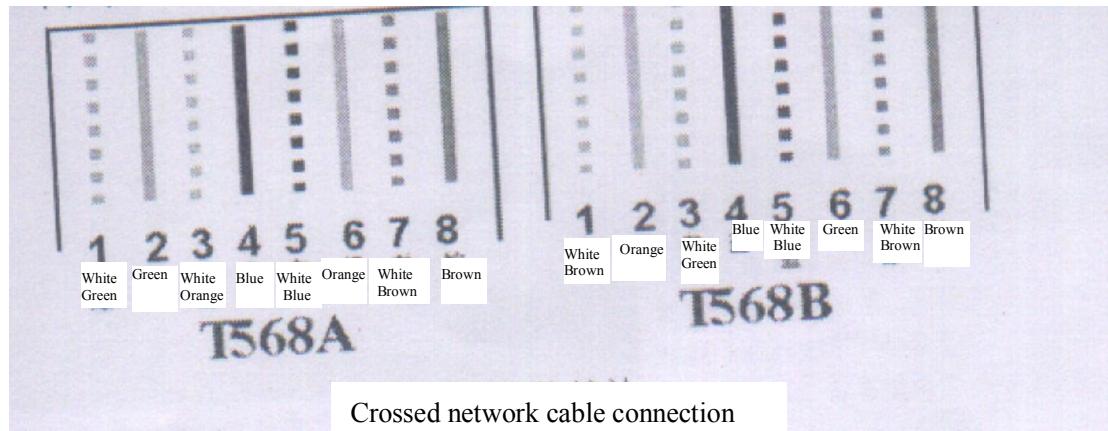


(2) RS485 interface wiring



(b) Connect from computer to switch, from switch to switch and from switch to controller.

One end of the network cable is connected according to T568A. Another end is connected according to T568B.



5 Status indication



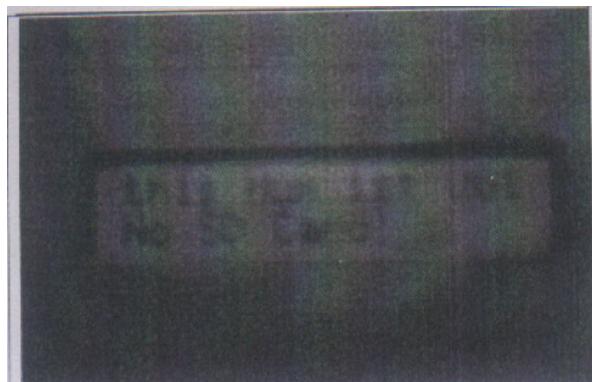
POWER	Power indicator
SD	SD card slot
OFF/ON	Built-in power switch of controller
LINK	Network connection status indicator
SPEED	Network connection speed indicator
ACT	Network indicator
NET	Ethernet interface, it must be connected with the PC or switch with the crossed network cable.

6 Dialing number and computer IP setup

(1) Controller dialing number: every controller must be set with the number, namely set the controller IP address in connection. Every controller gets different playing data from PC by the number. The number is set by DIP switch on the side shell of the controller. The mark is shown as follows:

SW1-SW7	Set controller number: 1-128 (binary) If 8 dialing switches are plugged, it indicates the No. 1 controller. Other numbers are accumulated by the binary
SW8	Temporary unused

After the setting is completed and the controller restarts, the LCD of the controller displays the number of the controller "This Num is 001" or "This Num is 002". "This Num is 003".....



For this image, the first row of the LCD displays "this Num is 001", which indicates the controller number is 001.

If the controller number is 1 and the No. 1 controller is not inserted into SD card, the second row of LCD of this controller will display "No SD card!"

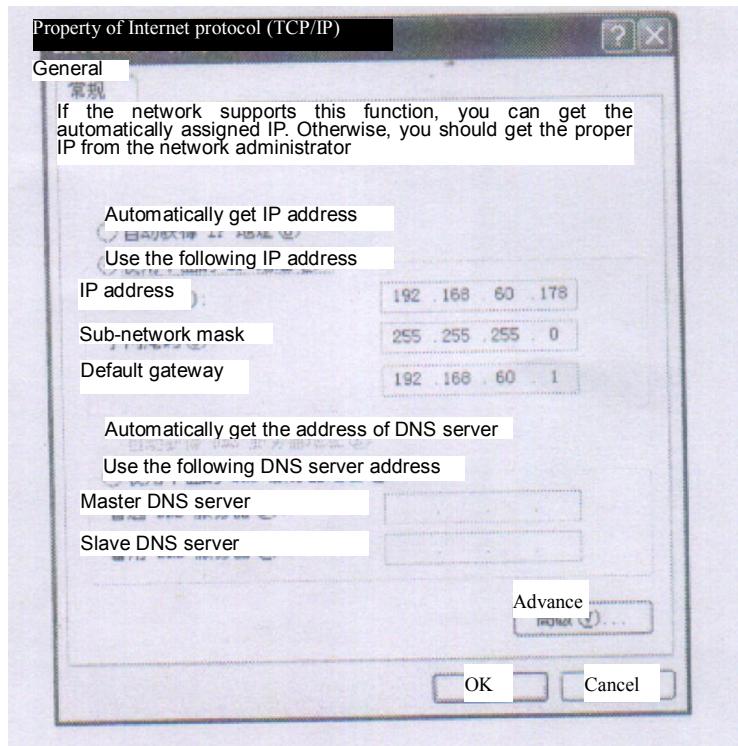


If LCD screen display this message, it indicates that the controller number is changed and the controller should restart. The message "Num: 001, chg.:004 Need restart!" indicates that the controller number is changed from 001 to 004 and the controller should restart.

The controller IP address starts with 192.168.60.50.

192.168.60.50-----	No. 1 controller
192.168.60.51-----	No. 2 controller
192.168.60.52-----	No. 3 controller
192.168.60.53-----	No. 4 controller

(2) IP setting of the computer: because the controller IP is 192.168.60.*, the PC IP address must be set as 192.168.60.*, but it should not conflict with the controller IP. It is recommended to set the PC IP as 192.168.60.178, shown as the following figure.



E. Use Steps

UE-TXV2/UE-TXV1 controller and JC50-64 color wall panel connection, first download the programs to SD card then insert it into the controller, and then connect the control the first output port (OUT1) and the first one color input port (IN PUT) is connected, then the first color of the output (OUT PUT) and the second color of the input (IN PUT) is connected (the output port of each controller can access up to 16 color); the first 17 color directly with the controller of the second output phase (the first one color and the color not linked to the 17th), and so on. Respectively connected to switching power DC9V DC power supply for each color wall on the back of the sub-unit (a color screen with a power supply), After power on, JC50-64 change color by the controller.

F. Scope of Application

- ◆ Wall bars
- ◆ KTV walls
- ◆ Building walls
- ◆ Hall Wall



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