




## OVP-Y5E

### SPECIFICATION

 Before you use the brightness sensor, please read this file first and save it for

*We will struggle and serve for the booming development of LED industry!*

OVP-Y5E

## Statement

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# CATALOG

<b>Brief Introduction</b> .....	2
<b>About software</b> .....	2
<b>Characteristics</b> .....	2
<b>Guiding</b> .....	3
<b>Safety Notes</b> .....	3
<b>Function Introduction</b> .....	4
<b>Control area</b> .....	4
<b>Support high refresh</b> .....	4
<b>HD video</b> .....	4
<b>Multiple communication mode</b> .....	4
<b>Support both synchronous and asynchronous</b> .....	4
<b>Large storage capacity</b> .....	5
<b>Support database</b> .....	5
<b>Support Mobile App</b> .....	5
<b>Technical Specifications</b> .....	7
<b>Physical Dimension</b> .....	8
<b>Interface Illustration</b> .....	9

# Brief Introduction

Thanks for ordering ONBON LED control card. The design of the control card is according to the international and industrial standard, but if the operations are incorrect, it will probably bring you personal injury and financial harm. As to avoid these and win more from your equipment, please obey the specifications of this file.

## About software

Cannot do any modification, decompilation, disassembling, decoding or reverse engineering on our software, it' s illegal.

## Characteristics

- ◆ Support big screen, 4 gigabit output;
- ◆ External signal and internal signal display together;
- ◆ Support 3 video area 1920\*1080, 1 external video area;
- ◆ Support high refresh;
- ◆ High performance CPU;
- ◆ On-board Gigabit port, support WIFI, internal WIFI can be hotspot (AP), and also can be terminal. Meanwhile, it supports 4G.
- ◆ On board emmc (8G) flash memory;
- ◆ Support plugging in SD card and there' s double USB ports;
- ◆ Video input port: 1 HDMI input;
- ◆ Video & Audio output port: 1 HDMI output, 1 AUDIO output, and can be connected with LCD screen;
- ◆ Support USB plugging and playing, or download to U flash.
- ◆ Support group controlling, group sending.
- ◆ Support IR controller;
- ◆ Support temperature, humidity and brightness sensor.
- ◆ Brightness adjustment: manually, automatically.
- ◆ Support 512 programs, each program supports 8 areas.
- ◆ Support many areas: Image & Text, subtitle, video, lunar, clock, timer, temperature, humidity, announcement, weather broadcast;
- ◆ Support database;

# Guiding

## **Safety Notes**

- ◆ Input voltage is 220V, voltage range is from 100V-240V, please make sure the quality of the power supply of OVP series.
- ◆ Please make sure that all the power supply cables are plugged off when you want to connect or plug off any signal or controlling cables.
- ◆ Please make sure that all the power supply cables and signal cables are plugged off when you need to put in or take off the hardware equipment.
- ◆ Please take off the power supply of LED video processor before you do any hardware operations, and ESD by touching the ground.
- ◆ Please make sure the environment is clean, dry and ventilated when you use this product, also, do not put this product to a high temperature and wet environment.
- ◆ This product is electronic products, please keep away from fire, water source and flammable & combustible products.
- ◆ There' s high pressure components in this products, please do not open the box and repair it by yourself.
- ◆ Turn off the power supply immediately when you find smoking, peculiar smell or something unusual. And contact with us soon.

# Function Introduction

## **Control area**

There' s 4 gigabit output Ethernet, total pixels $\leq$ 2560000: Ethernet port supports 2560\*1000, maximum width is 30720, maximum height is 3840 pixels. Output of 4 Ethernet can be the same, users can connect with 4 screens, to show the same content.

## **Support high refresh**

Users can get a good effect when you use your camera or mobile phone to take a video with it.

## **HD video**

Our software support three 1080P internal video areas, adopt high performance CPU, users can display smooth videos;

There' s 1 HDMI input, external video can be displayed as one video area, as to support PIP function. It supports synchronous, external video can be displayed in the whole screen.

## **Multiple communication mode**

The controller is on board a 100M network interface, internal integrated 4G wireless module, WIFI module, also supports USB interface, external WIFI module. Built-in WIFI both as a hot spot (AP), but also as a terminal. Supports external 4G routers.

For the general network topology, users can use the network cable directly access the router or switch, and management PC communication.

For short-range wireless applications, the user can open the controller built-in WIFI, access to their own routers, to achieve online control management. Users can also open the controller's WIFI hot spots, access to their own PC controller, to achieve management control. For the controller hot spots, the user can set the password, the rights management.

## **Support both synchronous and asynchronous**

Support two modes: synchronous and asynchronous. In asynchronous mode, users can arrange by themselves, send programs. External video signal can be the area of asynchronous program, then display together with internal video. In synchronous mode, controller can accept external input video signal equipment, synchronously display the content and voice of TV, STB, DVD.

## **Multiple management platform**

It has different type of control platform, including PC software LedshowYQ, iLEDCloud platform , iLEDsys system. LedshowYQ is used on PC , it can support windows XP, win7, win10 and other mainstream operating system. The software provides a comprehensive, rich controller configuration, programming, program release function.

iLEDCloud platform is an online multimedia information publishing platform, its core server pinned on the Alibaba cloud, providing excellent reliability and stability. Users only need the browser to use the platform, you can remotely edit program, preview the program, scheduled fixed-point playback. Users can log in via phone, pad and pc.

If you use LAN, you can choose our LedshowYQ software to manage. Or you can use our iLEDCloud platform, manage by web browser.

## **Large storage capacity**

BX-Y1A, built in 4G storage for high resolution video. And support extending to 256GB

## **Selecting Program by 4 IO**

Selecting program by outside IO is to choose program by outside signal, as to display different programs by different signal.

## **Support database**

The controller will support database area, supports multi-page display, supports MYSQL, SQL server and other format database in the near future.

## **Support 3D**

Support abundant areas: image & text, subtitle, video, lunar, clock, timer, temperature, humidity, releasing, weather broadcast. For images and text, you can get 3D effect by adding some stunt.

## **Support Mobile App**

Y series supports management by mobile APP. APP software is very easy to understand and operate. Users can edit, send data by mobile phone, pad. APP supports searching screen, supports multi languages, supports dynamic preview, video trans-coding function. Supports zoom in and out manually.

## **Flexible program release methods**

Users can use PC software LedshowYQ to add ,edit , preview, release. If network is not convenient, users can also use U-disk to import programs or plug-in and display.

## **Online update firmware**

It supports remotely upgrade firmware, users can use PC software LedshowYQ, iLEDCloud platform to upgrade the latest firmware, to enhance controller functionality, performance, solve bugs. The controller has built-in logging function, it can record various important events, and support remote consult, analyze and solve the fault.

## **Support many sensors**

On-board temperature, humidity, brightness ports & RS485 port for many kinds of environmental sensors. It can measure and display temperature, humidity, brightness, noise, PM2.5, PM10, wind direction, wind speed, etc.

## **Timer switch screen**

After setting the turn on and turn off time, the computer will turn on the machine on time and automatically. It can make use of manpower and material resources reasonably, and greatly improve the service life and reliability of the display screen. When the user is inconvenient to operate on the side of the computer, this function can better realize.

## **Relay functions**

Turn on/off by relay, connected by VMF card or slots on controller. As to remotely control the "on/off" of screen, air conditioner, fan for screens.



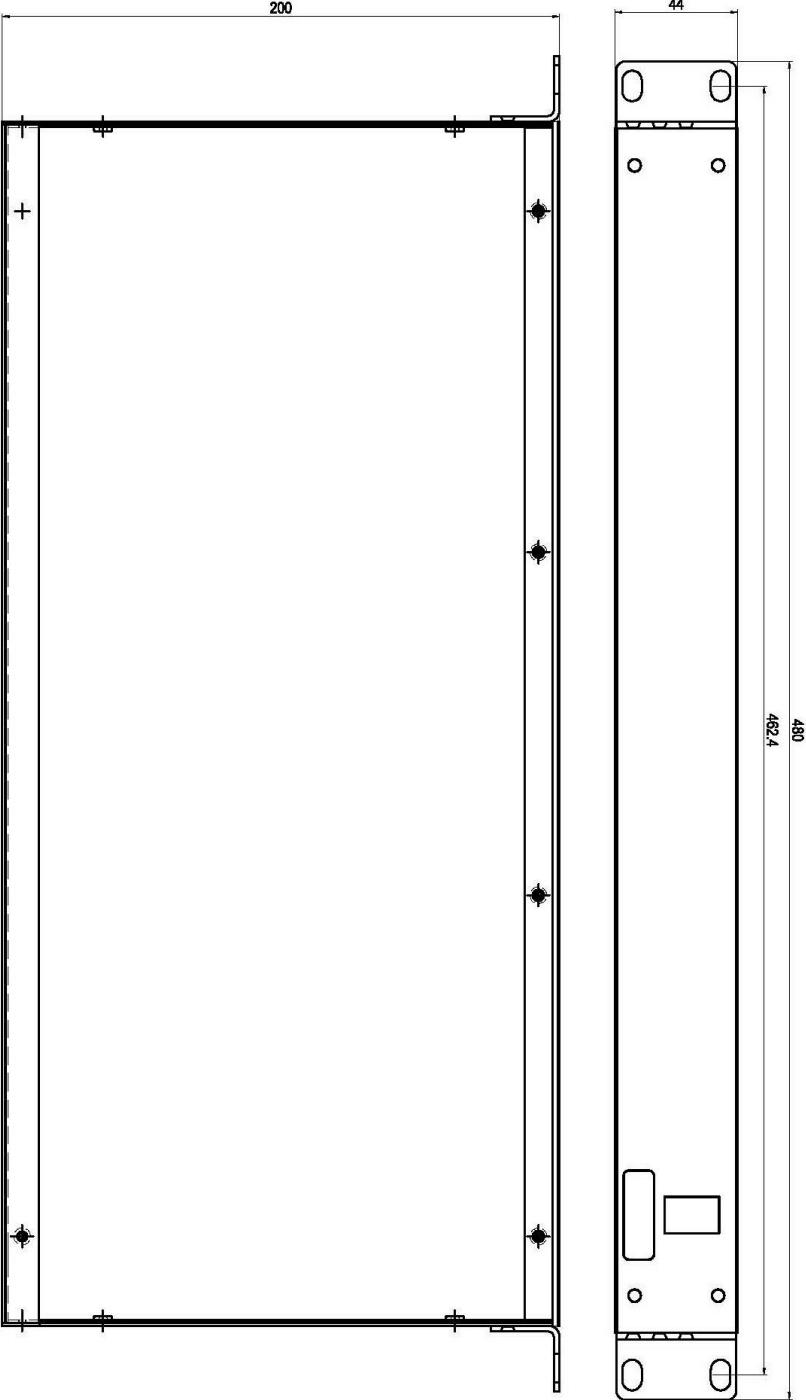
# Technical Specifications

<b>Screen Parameters</b>	
Parameters	Specification
Min Pixels	62 x 32
Control size	2560*1000
Maximum width	30720
Maximum height	3840

<b>Specification</b>	
Working voltage	100-240V – 50/60Hz
Power consumption	≤10W
Working temperature	-35°C ~ 75°C

# Physical Dimension

Unit: mm



# Interface Illustration

## Front side



Button description	
USB2	USB2 port, connect with U flash, 4G module, USB-485 as to support all kinds of sensors
MODE A/SYNC	Switch from synchronous and asynchronous
TEST	Test button
▶	Switch programs
SYS	Working indicator, flash means normal, once in every 2 seconds
NET	Network and fault indicator

## Back side



Button description	
<b>LED1~ LED4</b>	4 gigabit ports, connect with receiving cards
<b>AUDIO</b>	1 Audio output
<b>HDMI-OUT</b>	1 HDMI output
<b>HDMI-IN</b>	1 HDMI input
<b>LAN</b>	100M Ethernet, connect with computer
<b>WIFI</b>	Connect with WIFI antenna
<b>LIGHT</b>	Brightness sensor
<b>USB1</b>	USB1 port, can connect with U flash, 4G module, and USB-485 as to connect with all sensors
<b>SELECT PRG</b>	IO Selecting programs, connect with outside controlling
<b>Input voltage</b>	100-240V~50/60Hz

## Contact Us

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Public Wechat



ONBON APP