


LED Multi-media player

User Manual

 Before you use the LED controller, please read this file first and save it for future

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

BX-YQ5E

Statement

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CATALOG

Brief Introduction.....	1
About Software.....	1
Characteristics.....	1
Guiding.....	2
Safety Notes.....	2
Function instruction.....	3
Multiple communication mode / support network topology.....	4
Multiple communication mode / support network topology.....	4
Support iLEDCloud platform.....	5
Large storage capacity / capacity can be expanded.....	6
Hard decoding / audio & video input / output / double video areas/ zoom / ad machine.....	6
Program release method is flexible.....	6
Program area/variety.....	7
Support remote update/daily record.....	7
Support remote controller.....	7
Time /remote switch controller.....	7
Support mutli-type of sensor.....	7
Support secondary development.....	7
Support datebase.....	8
Support Android App,easy operator.....	8
Technical specifications.....	9
Shape and parameter specification.....	10
Physical dimension.....	10
Back panel diagram.....	11
Front panel diagram.....	12

Brief Introduction

Thanks for ordering 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

- ◆ Big loading area, 4 Gigabit Ethernet port output, 1080p@60 frame, 2*1080p@30 frame .
- ◆ Support high refresh, excellent photograph effect while using mobile phone, camera .
- ◆ The output gray level is from 0-65536.
- ◆ High performance CPU, hardware decoding, HD video smooth playback .
- ◆ On board 100M Ethernet port, integrated 4G wireless module, WIFI module, also supports external USB WIFI module interface. Built in WIFI can be used either as a hot spot (AP) or as a terminal. Support for external 4G routers.
- ◆ Onboard EMMC large capacity (8G) flash memory, can store 16 hours of high-definition video, ultra high-definition video 8 hours.
- ◆ Indefinite expanding memory.on-board SD card and dual USB interface, USB interface supports large capacity mobile hard disk (1000G).
- ◆ Audio input interface: 1 way DVI input, 1 way CVBS input, 1 way AUDIO input
- ◆ Audio &video output interface: 1 DVI output, 1 AUDIO output, can connect the LCD screen, advertising machine as the train station, bus stations, hospitals and other crowded places.
- ◆ Support USB disk plug and play, and also upload into the memory to play, very suitable for networking inconvenience place program released.
- ◆ Support cluster control, especially suitable for large-scale urban outdoor advertising screen large-scale deployment, management
- ◆ Easy to upgrade the software , you can use pc software or cloud platform to remote upgrade it , no

need to the pot.

- ◆ Support temprature, humity, brightness sensor
- ◆ Support remote controller, can use the remote to request program and adjust the brightness, volume, screen test etc..
- ◆ Can manually adjust the brightness, automatic brightness adjustment, 256.
- ◆
- ◆ Support 512 programs, each program support in 8 areas, can edit a very beautiful display effect.
- ◆ Support Image/text/subtitle/video/lunar/time/dial/timer/temperature/temperature & humidity/noise/weather forecast area
- ◆ Support database,Very suitable for high-speed rail, hospitals, banks and other occasions of information release.
- ◆ Working temperature -40°C~80°C
- ◆ Support the DLL, or the protocol
- ◆ Flexible control method, single user can choice our PC software or iLedcloud platform to edit and release the software, large group of users can use iLedsys to set up there own server ,set up VPDN to edit and release the programs.

Guiding

Accessory



Safety Notes

- ◆ Input voltage is 5V, voltage range is from 4.75V-5.25V, please make sure the quality of the power supply of YQ 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 instruction

Control area

The outstanding feature of YQ5E controller is the super control size. There are four gigabit output ports,

when load 1080p , it can support 60 frame content refresh, if the refreshrate is 30 frames, the maximum control size can reach: $2 * 1920 * 1080=4,140,000$ points!

When the user screen parameter is $\leq 1920 * 1080$, refresh rate =60, video, stunt picture will be very smooth.

When the user screen parameter is $\geq 1920 * 1080$, the frame rate of the content refresh is automatically reduced to 30 frames, in this case, the sharp motion and the changing video picture can be less smoother than 60 frames.

Support high refresh /Perfect photograph effect

YQ series of controller support high refresh (here refers to the receiving card for LED screen refresh, users scan) or mobile phone camera shooting LED large screen picture from time to time, no distortion, no scanning line, the true nature and excellent results.

In the ordinary low refresh display screen, camera, you can see the stripes, stripes is actually a scan line, generally horizontal black stripes line, it is caused by the screen refresh rate is low, is the camera to capture the present.

Synchronous&asynchronous integration

The controller provides two modes of operation: synchronous mode and asynchronous mode. In asynchronous mode, users can edit and release programs by themselves. In synchronous mode, the controller can receive external input video source equipment, and synchronize the output and sound of the equipment such as TV set, set-top box, DVD and so on.

Mode switching can be done by the mode button on the front panel of the controller. When the button is pressed, the controller sequentially enters the synchronous DVI mode, synchronous CVBS mode, asynchronous mode.

Multiple communication mode / support network topology

Multiple communication mode / support network topology

The controller is equipped with 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 hotspots, access to their own PC controller, to achieve management control. For the controller hot spots, the user can set the password, the rights management.

For outdoor remote screen, because the wiring is inconvenient, you can choose the way of remote wireless, the user uses the onboard integrated 4G module, insert the phone card, set the server mode or web mode, the controller can automatically log management platform. Users can also choose to use the USB interface of the external 4G router.

For large users, the controller supports VPDN (virtual private dial-up network), the screen can cross the public network, distributed in the city's traffic arteries, or between the city, constitute a virtual private network, remote groups, security management

Support iLEDCloud platform

We provide 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 a 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.

iLEDsys system is a high-end customers from the deployment of cloud platform, the platform will run on the user's own computer above, to achieve a more secure, stable and efficient management.

Small users, if it is LAN application environment, you can choose to provide our PC software LedshowYQ for control management.

If the use of small users need to cross the public network, you can access iLEDCloud cloud platform, through the web browser to manage.

Large group users can be managed from the deployment cloud platform iLEDsys system. If you need to cross the public network, you can create VPDN, to achieve across the public network of virtual intranet, to manage.

Large storage capacity / capacity can be expanded

The controller provides high-capacity built-in flash memory, also supports external capacity expansion. Controller built-in 8G flash memory, you can store 16 hours of high-definition video. It provides SD card slot, allowing users to insert large capacity SD card, to expand capacity. When users use large capacity SD card expansion capacity, please switch the working medium to the SD card. The controller also supports high-capacity mobile hard drives on the USB interface, which can support up to 1T (1000G) of removable hard disk when the mobile hard drive is powered by a separate adapter. When users use large-capacity mobile hard disk expansion capacity, the need to switch the working medium to USB mode.

Hard decoding / audio & video input / output / double video areas/ zoom / ad machine

The controller uses high-performance CPU, hardware decoding, high-definition video playback smooth.

The controller provides 1 DVI input interface, 1 CVBS input interface, 1 AUDIO input, user-friendly access to a variety of external video source equipment. The external video can be played as a video area (with zoom) to achieve dual video effects.

External video source can also be full-screen playback, to achieve synchronization effect.

The controller provides 1 channel DVI output, 1 AUDIO output, the user can connect LCD LCD screen or TV and other equipment, as indoor crowded places advertising machine operation, such as bus stations, railway stations, high-speed rail stations, banks, hospitals Public places.

Program release method is flexible

Users can use the PC software LedshowYQ edit, preview, release program. If there is no access to internet, you can also use the U disk for the program to import or plug and play. Program import, please insert the U disk into the PC, click the "USB" icon, select "import memory play", click "Save", the program can be deposited into the U disk. Then the user can insert the U disk into the remote screen controller, the controller will automatically copy the program to memory, to play. And "plug and play", it is inserted into the remote U disk controller, the controller will automatically cut the media for U disk to play.

Program area/variety

Supported area types are rich in graphic text, subtitles, video, lunar calendar, dial, timing, temperature, humidity, announcements, weather forecasts.

Text areas can be pictures or text, supporting a wealth of special effects, including curtain, pan, laser, mosaic, shutter and other common effects.

Controller processor built-in GPU (graphics processing unit), you can achieve brilliant 3D effects.

The controller supports a variety of time zones, you can set the font of analog dial, dial point, select the style, the color set. Also can achieve a text type time display, including the date, hour, and week, can set the single or multi line display. The support area, including the day, solar term. Support time zones, such as "distance from national day, 18 days, 18 hours, 18 minutes, 18 seconds" and the like.

Support remote update/daily record

Controller support remote upgrade, users can use PC software LedshowYQ, cloud platform iLEDCloud, deployment of cloud platform iLEDsys system for remote upgrade, enhance controller functionality, performance, solve bug.

The controller has built-in logging function, it can record various important events, and can remotely consult, analyze and solve the fault.

Support remote controller

The controller supports infrared remote control, can change programme on request , lock program. You can easily adjust the screen brightness, volume, screen switch machine, test, experience comparable to the TV remote control, especially for the convenience of indoor display management.

Time /remote switch controller

Match with VMF multi-function card,the controller supports remote start, shutdown control , effectively reduce the screen power consumption, saving energy.

Support mutli-type of sensor

Match with VMF multi-function card.it collect temperature, humidity, brightness, noise and other common sensor data.

Support secondary development

Provides C # / C + + dynamic library, can support edit , release, remote control programs .

Provides JAVA dynamic library, support dynamic zone, synchronization area.

Support database

The controller supports the database area, supports multi-page display, supports mySQL, sqlserver and other format database.

Support Android App,easy operator

It can be controlled with Android APP ledshow , managed easily.

APP support search screen, support multi-language, support dynamic preview, video transcoding function.

Support gesture zoom in and out of partition function.

Technical specifications

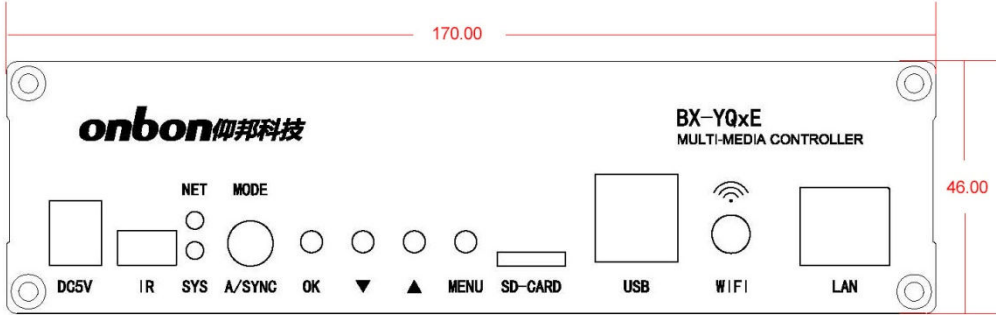
Screen parameter	
Parameter	Specifications
Min Pixels	128 x 64
Max Pixels	2560×1024
Total Pixels	2621K pixels
Max pixels in width	4080
Max pixels in height	2048
Receiving card	BX-V75 receiving card

Specification	
Working voltage	5V~5.5V; Please be sure the good quality of power
Maximum power	≤10W
Working temperature	-40℃~80℃

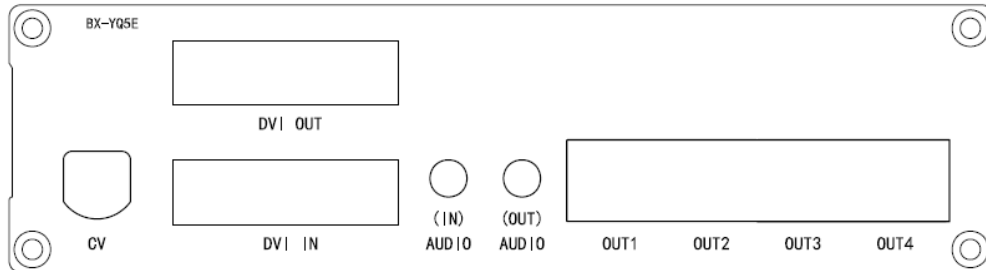
Shape and parameter specification

Physical dimension

Physical dimension
194mm \times 118mm \times 46mm



Back panel diagram



Video input / output port	
DVI-IN	1080P@30HZ, 1 HDMI
CV	CVBS, PAL/NTSC
DVI -OUT	1 HDMI

Audio input / output port	
AUDIO-IN	1 3.5 mm stereo
AUDIO -OUT	1 3.5 mm stereo

Gigabit Ethernet interface	
OUT1	Scan data output port , connect with full color receiving card
OUT2	
OUT3	
OUT4	

Front panel diagram



Button description	
DC5V	5V Power interface, DC voltage input, rated voltage 5V, support 5V ~ 5.5V
IR	XH254-3P Infrared receiver interface
SYS	Indicator light , it will blink twice per minute when controller works good ,
NET	Net work and fault indicating lamp
MODE A/SYNC	Video input mode switch button, Used to switch asynchronous programs quickly, CVBS input, and DVI input
OK	OK button, confirmation button for the interactive menu; a shortcut key for displaying the information on the display when the menu is not switched;
θ	Down key, interactive menu focus down
π	Up key, interactive menu focus Up
MENU	MENU button, Interactive menu open / close key
SD-CARD	SD slot, Storage expansion slot
USB	USB interface, can be connected U disk, external WIFI module, 4G router, mobile hard disk and so on
WIFI	Connect 2.4GHz WIFI antenna, 3 / 4G wireless module interface
LAN	Ethernet interface, Fast Ethernet, connected to the computer

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ONBON APP