

Digital Signage System Software Manual



Kazo Vision

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1. Installation Guide

1.1 Download the Installer

Download the pvplayer and the pveditor software from the following website:

<http://www.kazovision.com/multimedia/pvsystem/download>

Sync LED Screen		Flash Disk Installation Tool (For Linux Edition Player) Date: 2015.04 Size: 1.77 MB	flashdisk_installation.zip
Async LED Screen	This Linux version Installation CD will format the whole hard disk during installation, at the same time, it will install a new operating system on PC. Please backup your documents before installing it. Contact us if you have any questions.		
Free Edition			
Download	 Windows Version	Version: 0.13 Date: 2015.10 Size: 23.87 MB Language: English, 中文	 pvplayer.exe + Download Upgrade
Success Stories		K-Lite (Video Codec Pack) (For Windows Edition Player) Make the Windows version player program able to play variants formats of videos. http://www.free-codecs.com/download/k_lite_codec_pack.htm	
	 Android Version (BETA)	Version: 0.12 Date: 2015.04 Language: English	 pvdaemon.apk  pvdevicemanager.apk  pvplayer.apk  pvsettings.apk
	 Async LED Controller Version	Version: 0.13 Language: English, 中文	+ Download Upgrade
Editor Software - PVEDITOR			
	 Windows Version	Version: 0.13 Date: 2015.10 Size: 15.93 MB Language: English, 中文	 pveditor.exe

1.2 Install and Launch the Player

Install the player “PVPlayer”, double click the desktop icon to start the player.



A black window which is the interface of the player will be seen.

Launch the “PVPlayer Options” can modify the size of the window on your needs.

Press keyboard “F2” to turn to the player configuration interface, please remember the MAC address, it will help you to find this sign in the manager system on the WEB.

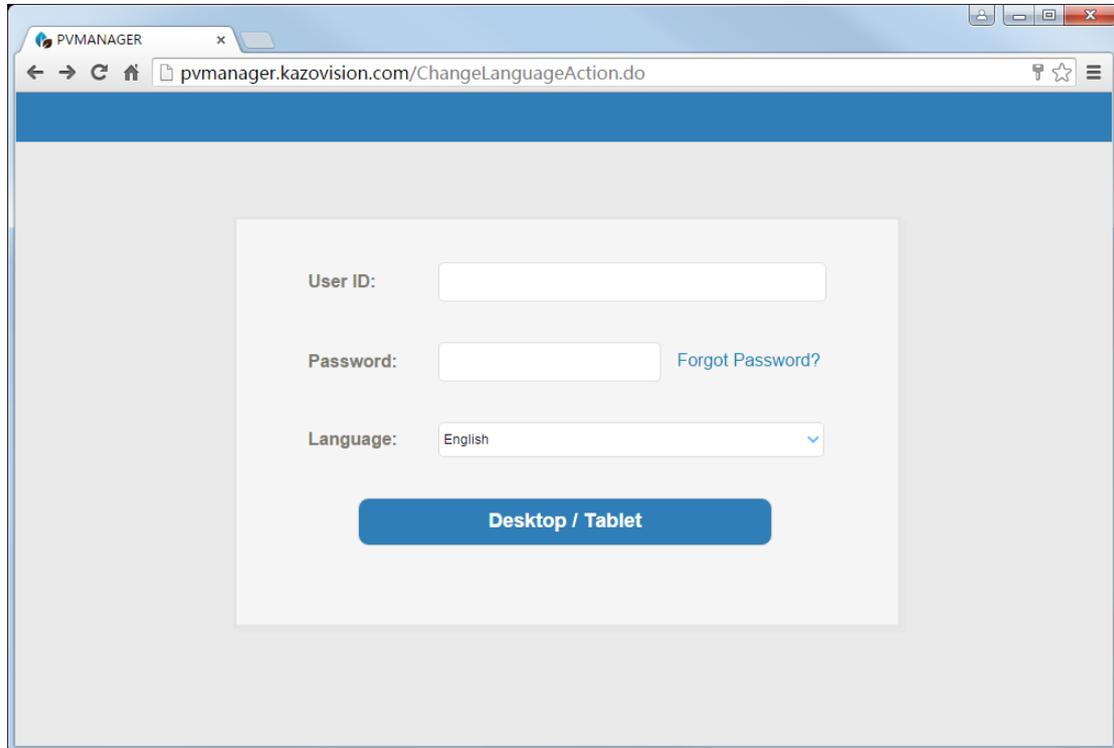
```
VERSION: 0.12 (2015-07-10)
TERMINAL NAME:
WEB SERVER: http://pvmanager.kazovision.com
MAC: C8:1F:66:23:96:48
RESOLUTION: 1920 X 1080
COMMUNICATE STATUS:

Please input the password:
```

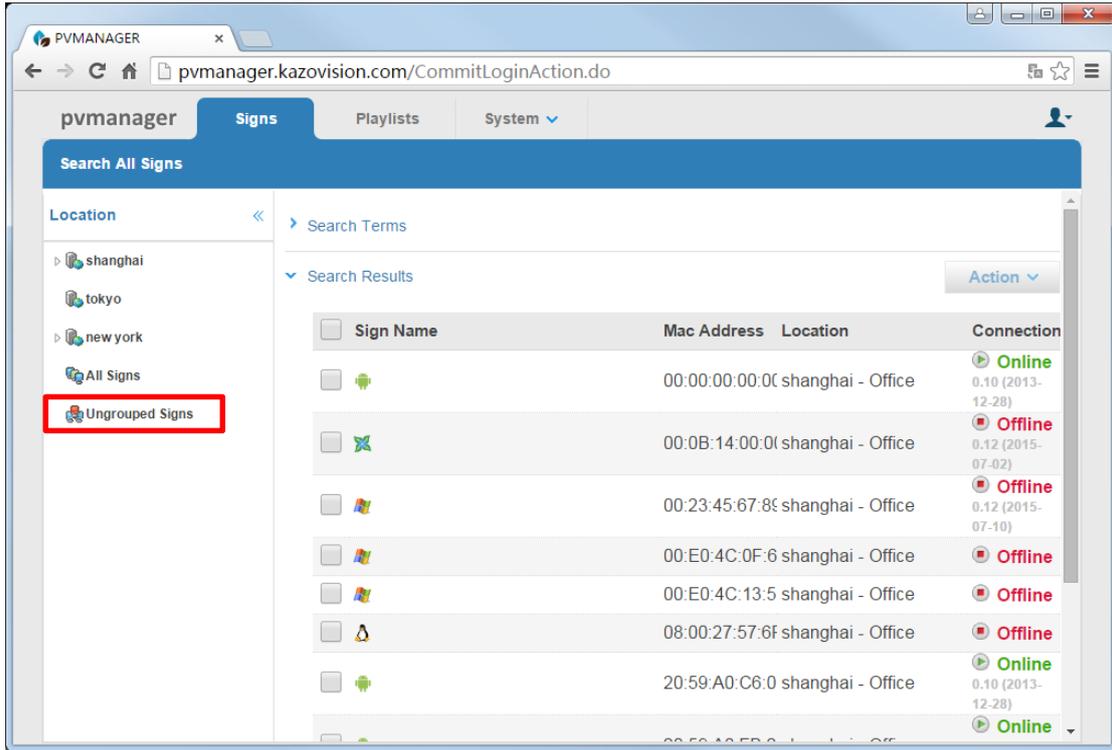
1.3 Login the WEB System and Check the Sign Status

Open the web page with your browser: <http://pvmanager.kazovision.com>

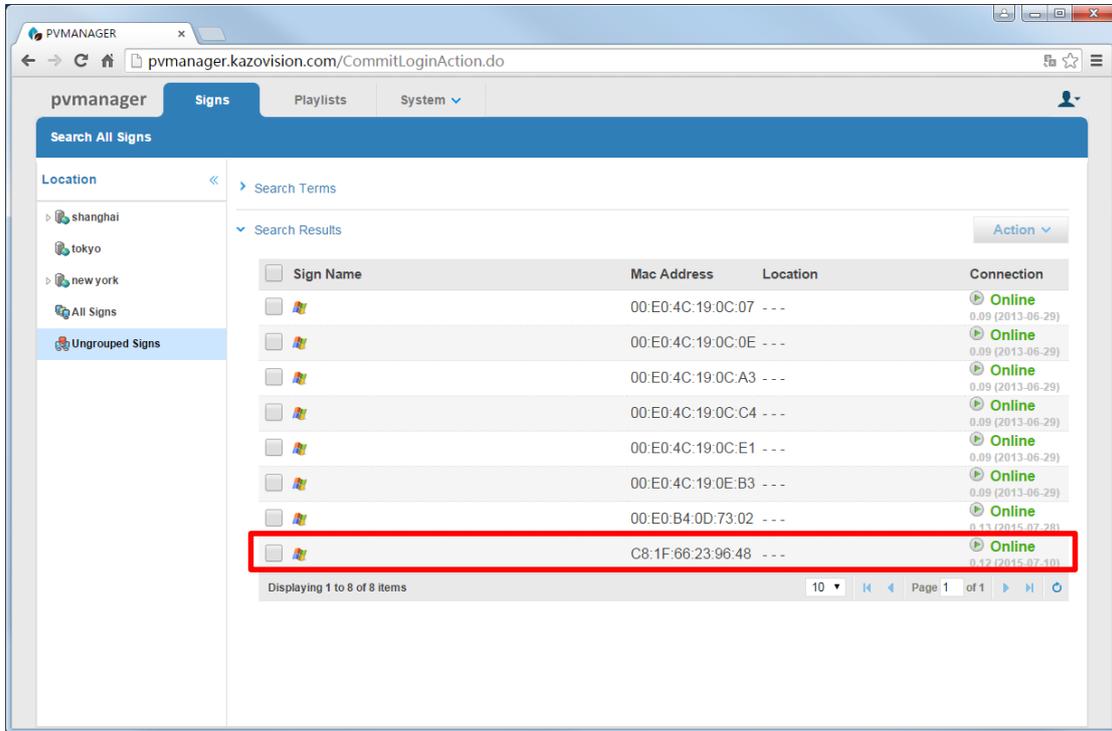
Get User ID and Password from the supplier and login.



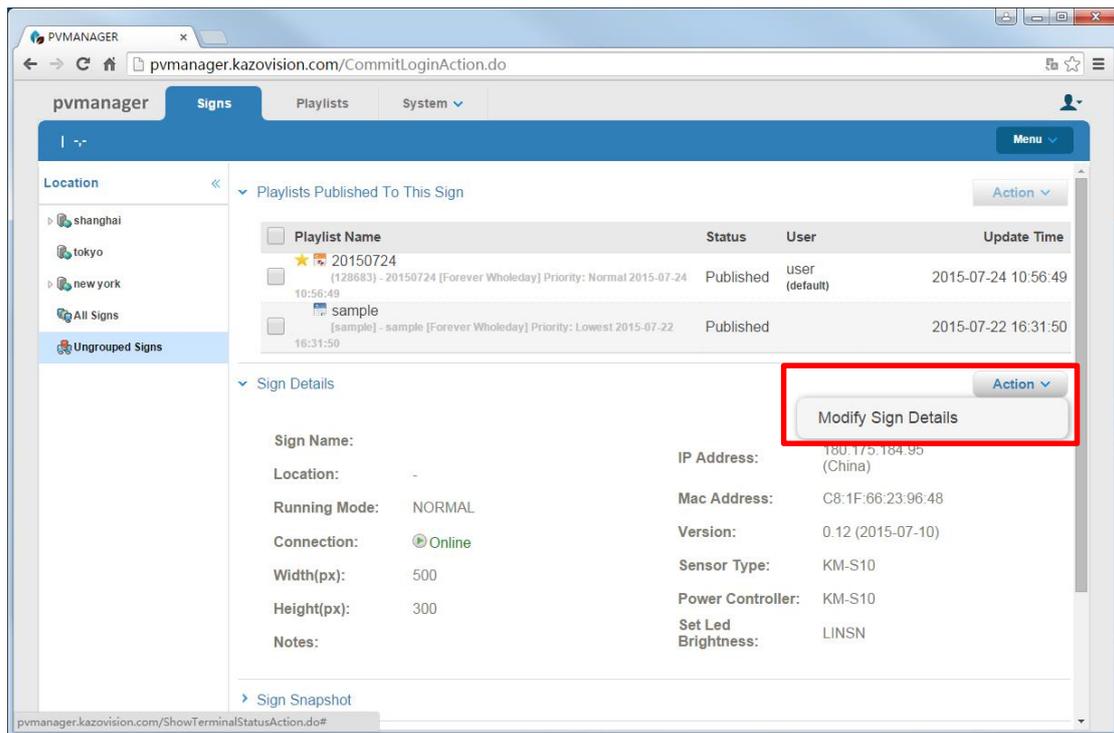
Click the “Ungrouped Signs” in the toolbar on the left.



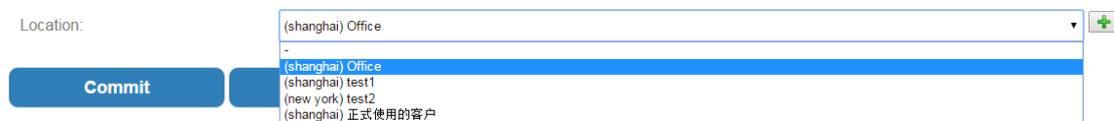
All the signs which were automatically registered to the system but ungrouped yet can be seen. Find the MAC address of your own sign from the list, and click the sign to modify the sign details.



Click "Action" > "Modify Sign Details".



Modify location of the sign in the page. After committing, the sign will be assigned to the location you selected.

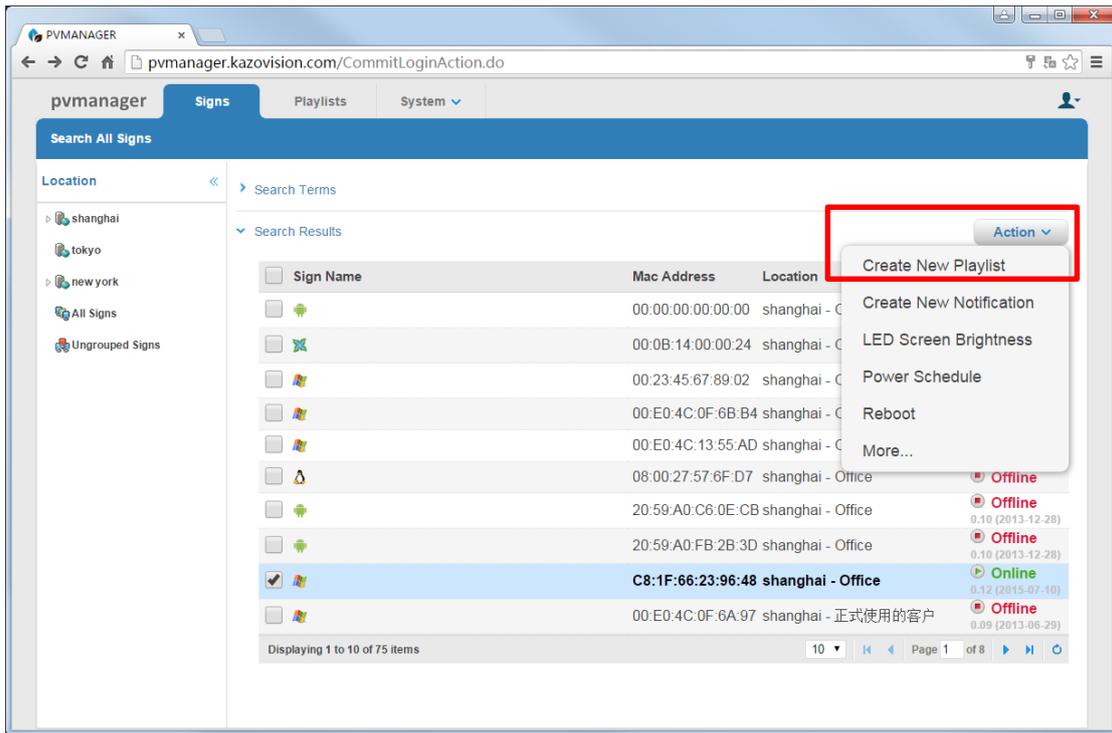


As long as the player in a network which can access Internet, it will be automatically connected to the Web Server and registered to the ungrouped signs.
If the sign can't be found in the list, please check the network of the player PC.

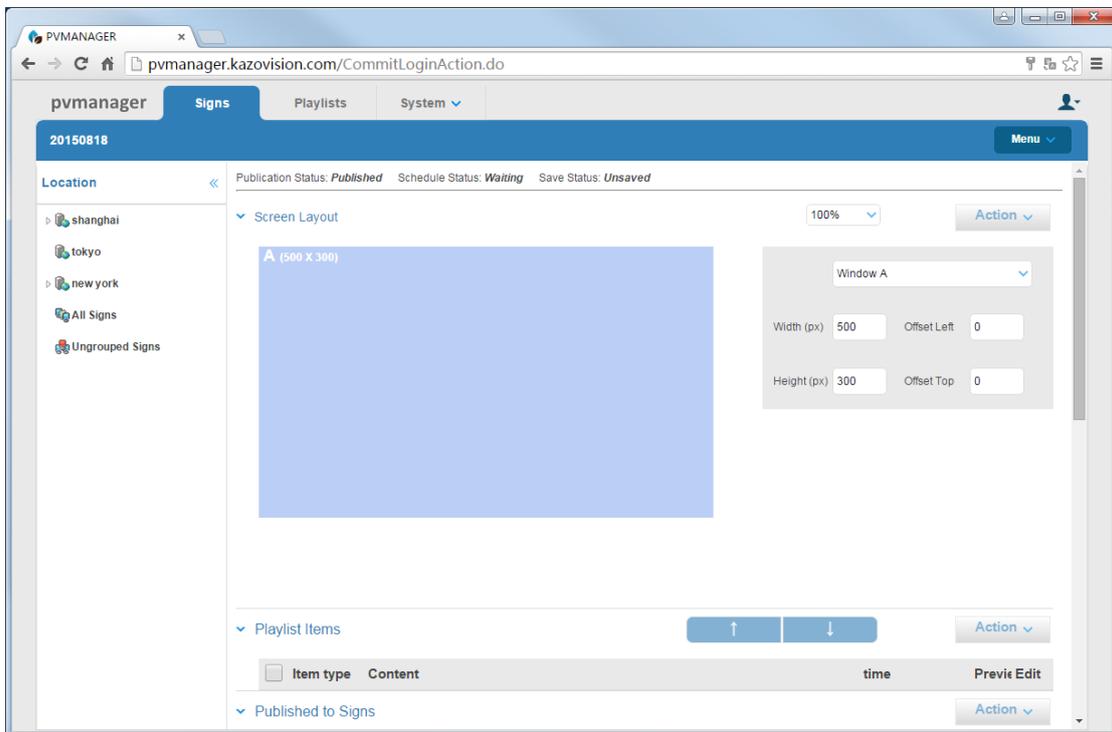
2. WEB Server

2.1 Edit and Publish Playlist Online

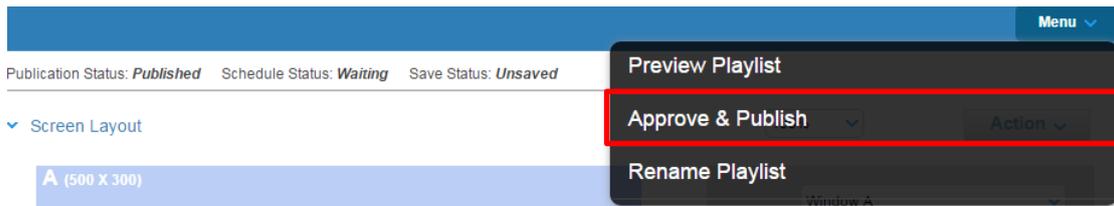
Check the sign you want to produce and publish a playlist to, then click the "Action" > "Create New Playlist" below.



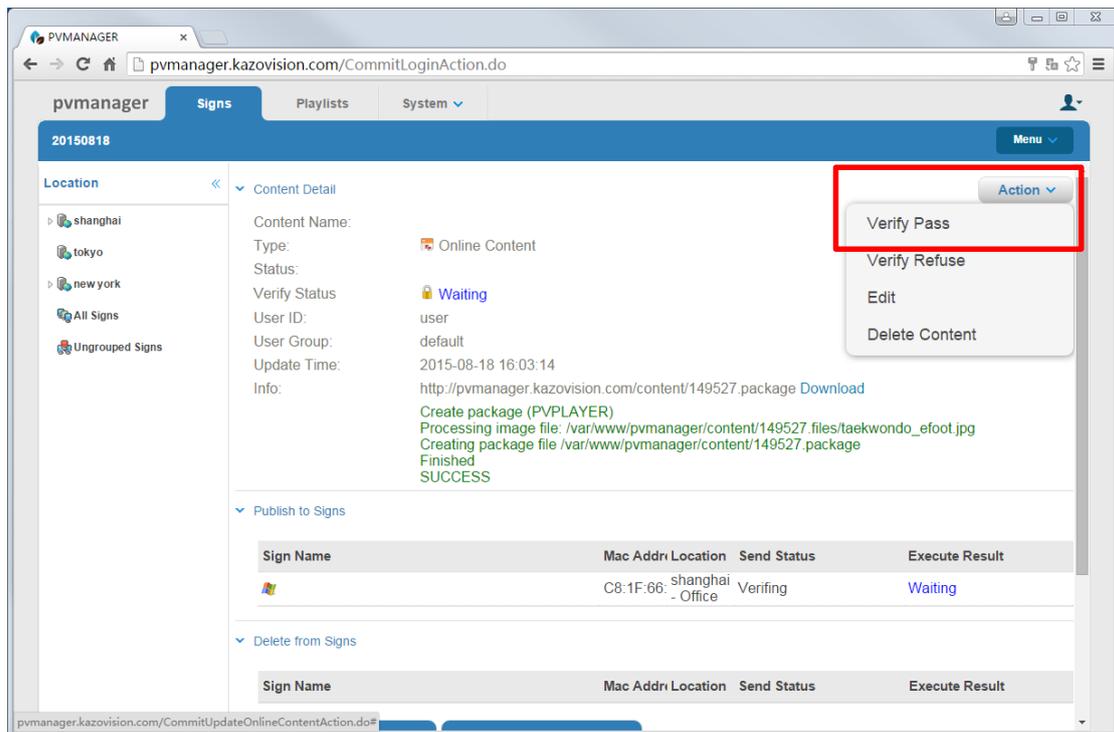
Enter to the Online Editor page.



While a playlist completed, click the “Approve & Publish” to publish playlist, it’ll save it to a package then go to the “Content Detail” page.



Click the “Verify Pass” button to complete the whole publication.



2.2 Sign Management and Monitor

Click the sign (according to MAC address) can get the sign details.

2.2.1 Playlists Published To This Sign

It shows the “Playlist Name”, “Status”, “User” and “Update Time”. The admin could get the situation with one sight, and delete it directly.



2.2.2 Sign Details

It shows the "Sign Name", "Location", "IP Address", "Mac Address" and so on.
Click "Action" can modify the sign details.

▼ Sign Details

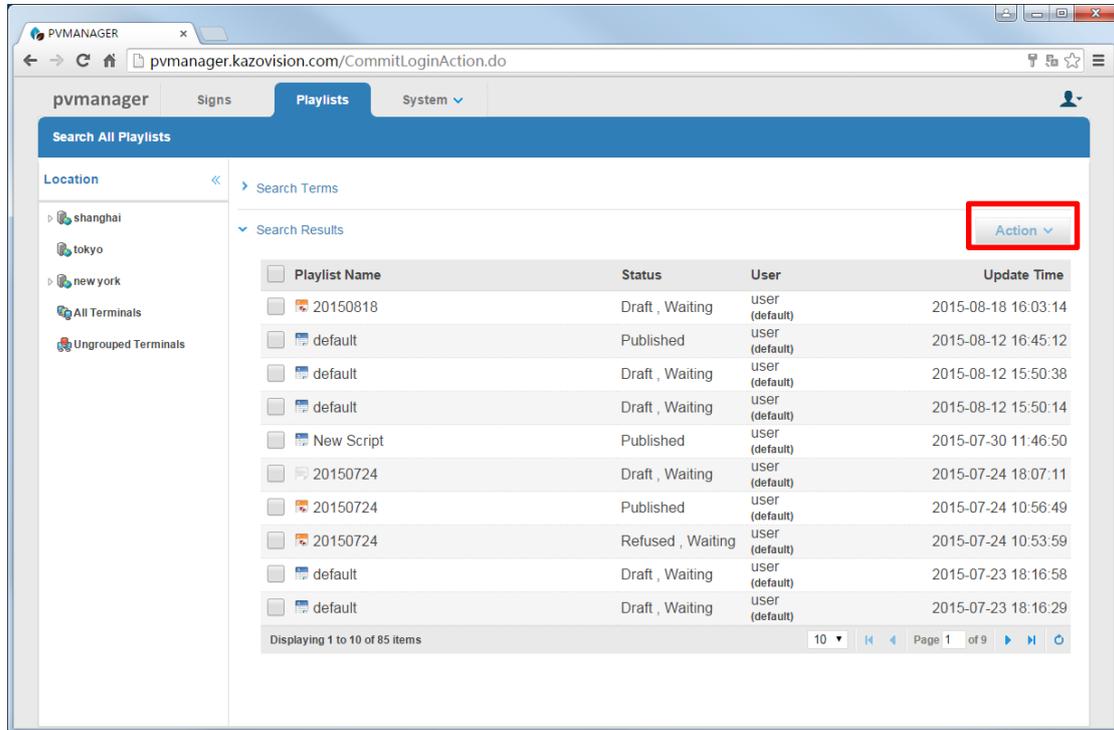
Action ▼

Sign Name:		IP Address:	180.175.166.170 (China)
Location:	Office	Mac Address:	C8:1F:66:23:96:48
Running Mode:	NORMAL	Version:	0.12 (2015-07-10)
Connection:	▶ Online	Sensor Type:	KM-S10
Width(px):	500	Power Controller:	KM-S10
Height(px):	300	Set Led Brightness:	LINSN
Notes:			

2.3 Playlists Management

Click the “Playlists” to go to the playlists management page.

Choose the playlist, then click “Action” can publish or delete the playlists.



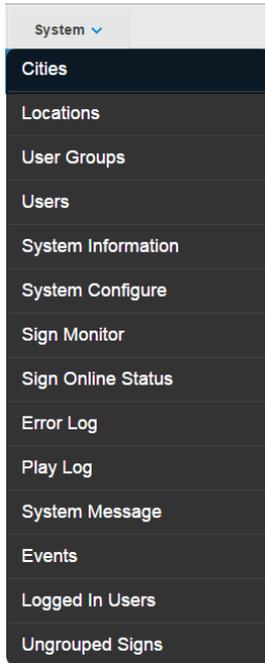
The screenshot shows the PVMANAGER web application interface. The browser address bar displays `pvmanager.kazovision.com/CommitLoginAction.do`. The application has a navigation menu with tabs for "Signs", "Playlists", and "System". The "Playlists" tab is active. Below the navigation, there is a search bar labeled "Search All Playlists". On the left, there is a "Location" sidebar with options: "shanghai", "tokyo", "new york", "All Terminals", and "Ungrouped Terminals". The main content area shows "Search Results" with a table of playlists. A red box highlights the "Action" dropdown menu in the top right corner of the search results area.

<input type="checkbox"/>	Playlist Name	Status	User	Update Time
<input type="checkbox"/>	20150818	Draft , Waiting	user (default)	2015-08-18 16:03:14
<input type="checkbox"/>	default	Published	user (default)	2015-08-12 16:45:12
<input type="checkbox"/>	default	Draft , Waiting	user (default)	2015-08-12 15:50:38
<input type="checkbox"/>	default	Draft , Waiting	user (default)	2015-08-12 15:50:14
<input type="checkbox"/>	New Script	Published	user (default)	2015-07-30 11:46:50
<input type="checkbox"/>	20150724	Draft , Waiting	user (default)	2015-07-24 18:07:11
<input type="checkbox"/>	20150724	Published	user (default)	2015-07-24 10:56:49
<input type="checkbox"/>	20150724	Refused , Waiting	user (default)	2015-07-24 10:53:59
<input type="checkbox"/>	default	Draft , Waiting	user (default)	2015-07-23 18:16:58
<input type="checkbox"/>	default	Draft , Waiting	user (default)	2015-07-23 18:16:29

Displaying 1 to 10 of 85 items

2.4 System Management in Web Sign

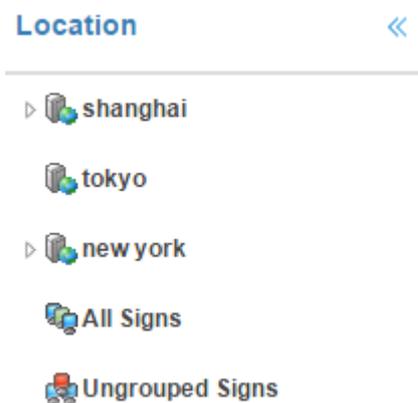
Click the “System” button.



There are 14 functions in the System Management, this chapter introduce the major functions.

2.4.1 Cities / Locations

There is the location list on the left in both Sign and Playlists page.



(1) City

Partition the signs by city, e.g. Shanghai, New York.

Location Name: **City:**

Associated User:

<input type="checkbox"/> City	Edit
<input type="checkbox"/> shanghai	Edit
<input type="checkbox"/> tokyo	Edit
<input type="checkbox"/> new york	Edit

Displaying 1 to 3 of 3 items 10 | Page 1 of 1

(2) Location

Location is a congregation of the sign, each sign may belongs to a location.

Location Name: **City:**

Associated User:

<input type="checkbox"/> Location Name	City	Edit
<input type="checkbox"/> Office	shanghai	Edit
<input type="checkbox"/> test1	shanghai	Edit
<input type="checkbox"/> test2	new york	Edit
<input type="checkbox"/> 正式使用的客户	shanghai	Edit

Displaying 1 to 4 of 4 items 10 | Page 1 of 1

When create a new location, you must input the Location Name and select a belonging city.

2.4.2 User Groups and Users

(1) User Groups

Create a new user group and enable its privilege.

▼ User Group Details

User Group Name:*

Group Administrator: The user with group administrator privilege can view and edit own user groups and users. The others can only operate the information belongs to his own user group.

Own Group

Privilege:

- Browse Signs:** View Sign list, and Sign status.
- Operate Signs:** Modify running mode, reboot, and set power schedule.
- Manage Signs:** Update configuration, shutdown, remote wake up, reset, upgrade, and delete Sign.
- Browse Contents:** View contents list, and contents detail.
- Publish Contents:** Publish content and notify.
- Verify Contents:** Verify the content. The content won't be sent to a Sign only when it's been verified.
- View City & Region Tree:** View the city and region tree on the left side.
- View Ungrouped Sign:** View Ungrouped Sign
- Configure System:** Manage media server, Browse System Information and configure system.
- Manage Regions:** Manage city and region.
- Browse System Statistics:** Sign monitor, Sign online status, error log, transfer statistics, play statistics, events management and logged in users.

<input type="checkbox"/> Location Name	City
<input type="checkbox"/> Office	shanghai
<input type="checkbox"/> test1	shanghai
<input type="checkbox"/> test2	new york
<input type="checkbox"/> 正式使用的客户	shanghai

Location:

(2) Users

Add, modify and delete the user account to login the Web Server.

▼ User Details

User ID:*

Password:*

Password Confirmation:*

User Name:*

Email:

Remark:

User Group:*

[Detail](#)

Commit

Return

2.4.3 Play Log

List the played times and total time of each item in the content script, convenient to provide data info to the advertisers.

View by Sign View by Play Item

Search Terms Search Clear Search

City Name: Region Name:

Content Name: Period: 2015-09-17 --- 2015-09-24

Search Results Action

Sign Name	MAC	Location	Detail
	00:00:00:00:00:00		Detail
	00:0B:14:00:00:24		Detail
	00:23:45:67:89:02		Detail
	00:90:0B:38:80:2C		Detail
	00:E0:4C:0F:6B:B4		Detail
	00:E0:4C:13:55:AD		Detail
	08:00:27:57:6F:D7		Detail
	20:59:A0:C6:0E:CB		Detail
	20:59:A0:FB:2B:3D		Detail
	C8:1F:66:23:96:48		Detail

Displaying 1 to 10 of 74 items 10 Page 1 of 8

2.4.4 Events

It displays the operation of all users in the Web Server, include login, logoff and other operations.

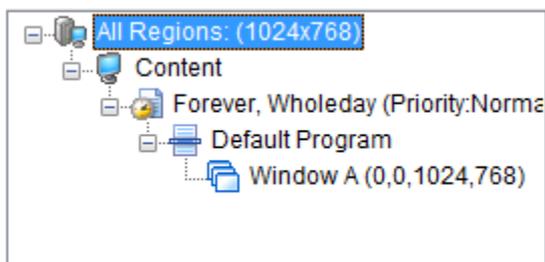
3. Create and Publish Playlist by PVEditor

Install the editor program “PVEditor”, double click the desktop icon.



3.1 Create Playlist

There is a content list on the left, default to display the last list.
It displays the following list at the first launch.



3.1.1 Region

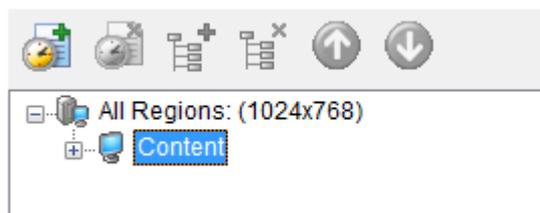


The corresponding part of this icon called Region.

3.1.2 Schedule

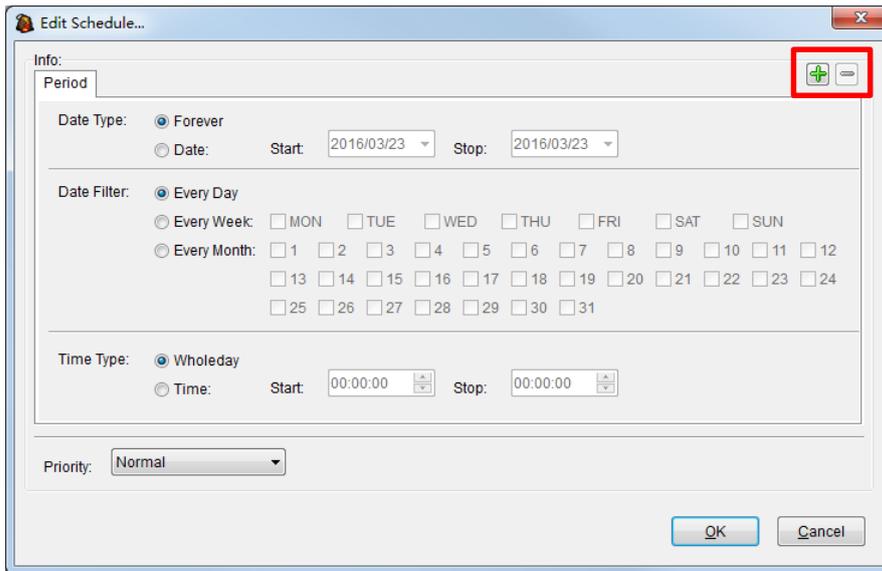


The corresponding part of this icon called Schedule, each schedule has a “ Content” below.



Select a content,  this icon above will bright, click it to create a new schedule.

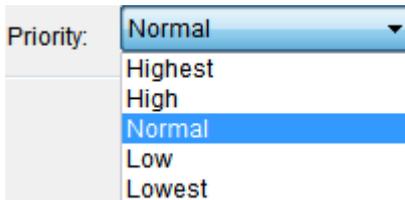
The following dialog box pops up.



Set a period of the schedule, for example, start at 9 a.m. and stop at 4 p.m. on Monday to Friday in November, 2012.

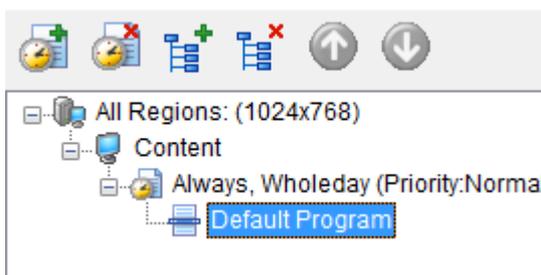
You could even add more periods, just click the  icon on the upper right corner to add, and the  icon to delete.

Choose different priorities for different programs. It has the following five options.

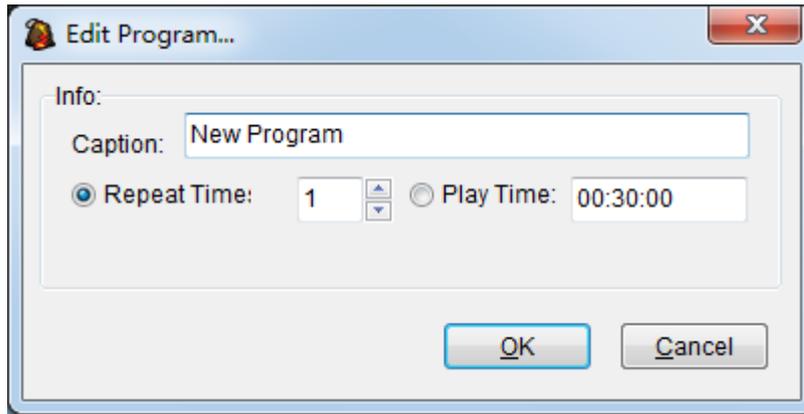


3.1.3 Program

 The corresponding part of this icon called Program.



Select a schedule, then click the  icon above to create a new program.



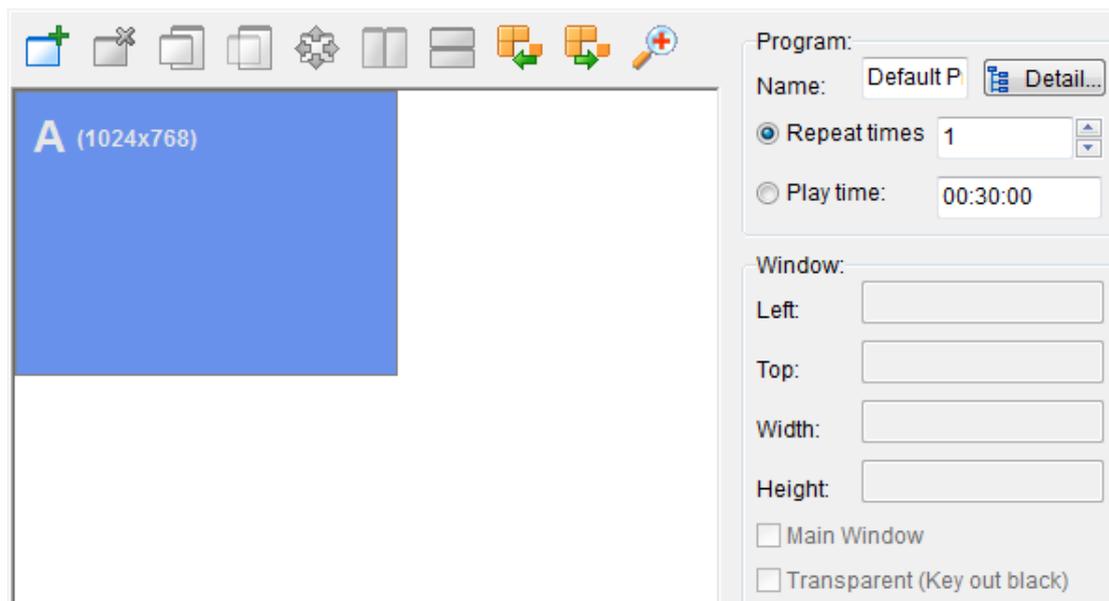
Alternative

Repeat Time: How many times you want to play the program.

Play Time: The duration that you want to play the program.

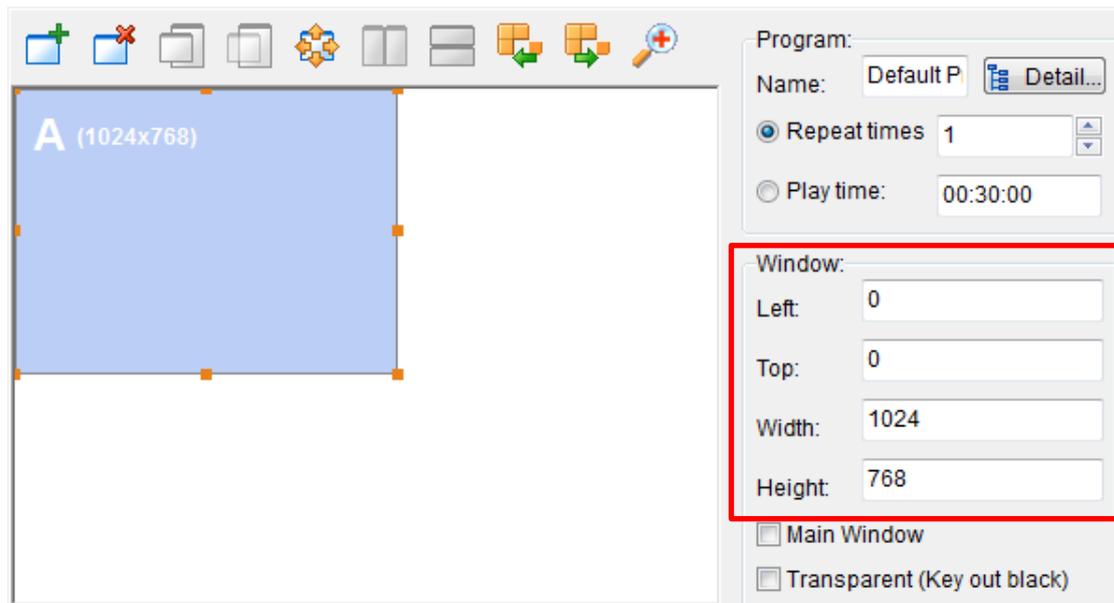
3.2 Window

There is a background screen in each program, create any windows on it is available.



3.2.1 New Window and Settings

Click "Window A" to edit it.

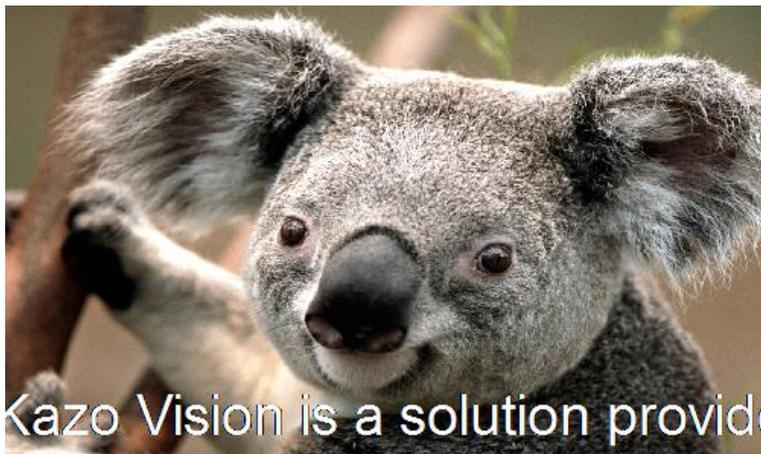


Drag and extrude the window to modify its parameter, or modify it in the parameter box.
Main Window:

Each program can set at most one main window, the play time is basis of the main window, the other windows will be loop playback; if a main window hasn't been set, the window with the longest play time is the main window of the program.

Transparent (Key out black):

When the window background color is black, it will automatically key out black when displaying. The play effect of the window is transparent.



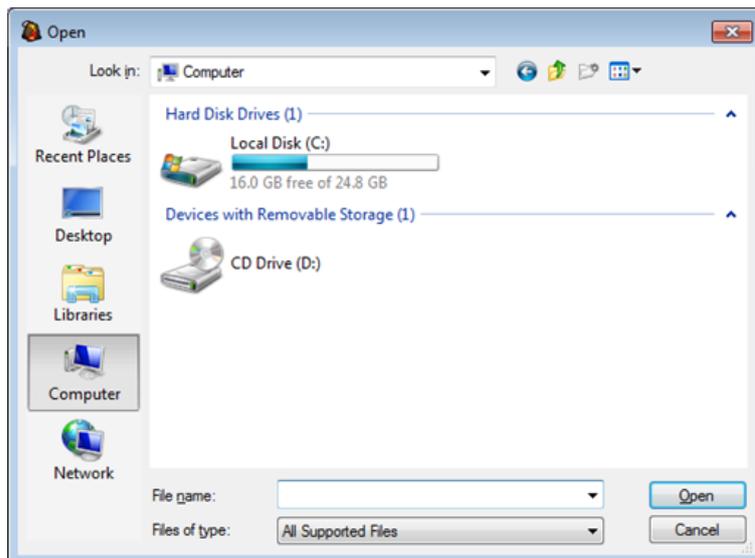
3.3 Play Item



Located on the middle of the software interface, it's used to edit items of the windows.

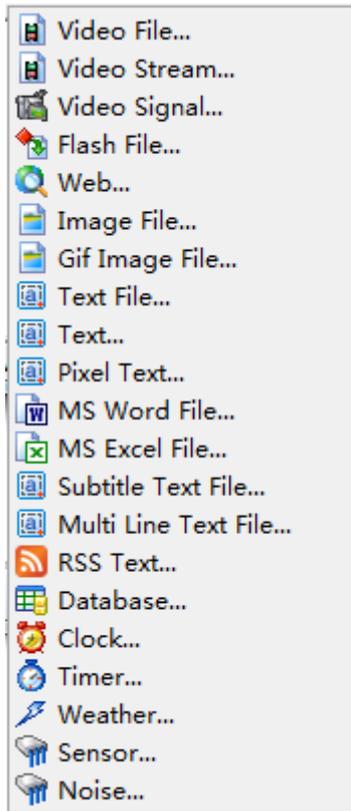
3.3.1 New File Item

Click the  icon, and select the file.



3.3.2 New Item

Click the  icon pops up the following add item list.



Each of the add item dialog box has an  icon in the lower left corner.



Click it and pop up this menu.

Set Display Schedule: Similar to the schedule, set a period to play for the add item with its own period configuration is available.

Set Related Play: Set the item's related window play. The effect is that when playing the item, the corresponding correlation window can also play the corresponding content.

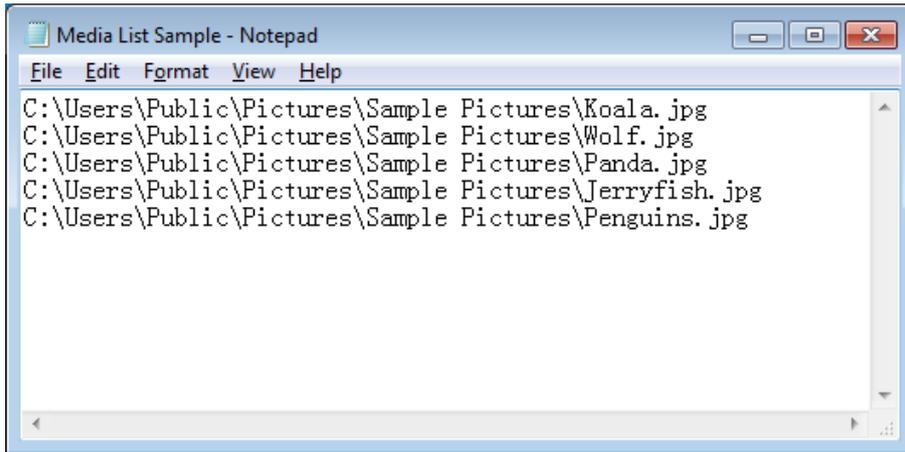
Save as Default Parameter: Save the current parameter to default parameter.

3.3.3 Import Media List

Click the  icon to select an import list file.

Media list file is a text document, defined all the media files to a content package in it.

Each line of the text is a media file name.



3.3.4 Modify and Delete Item



Select an item, the “Modify Item” icon and “Delete Item” icon above will be bright.

3.3.5 Move Item Up/Down



Select an item, the “Move Item Up” icon and “Move Item Down” icon above will be bright.

3.3.6 Spot Mode



When entering this mode, select the video files, Flash files, and image files. Then do modify, delete, and move up and down operation.

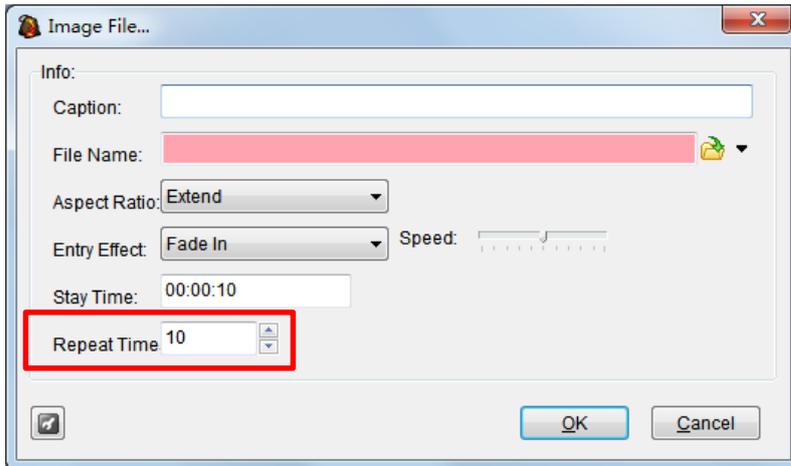
Start Time: 0:00:00

Time	Caption	File Name	Stay Time	Repeat Ti...	Status
00:00:00	Lighthouse	C:\Users\Put	00:00:10		
00:00:10	Lighthouse	C:\Users\Put	00:00:10		
00:00:20	Lighthouse	C:\Users\Put	00:00:10		
00:00:30	Lighthouse	C:\Users\Put	00:00:10		
00:00:40	Lighthouse	C:\Users\Put	00:00:10		

Caption	File Name	Stay Time	Repeat Ti...	Status
Lighthouse	C:\Users\PublicPictu...	00:00:10	5	Valid

The following description is for the image file .

Select an image file, and it will pop-up the following panel. Compared with the normal mode, this item just one more “Repeat Time”.

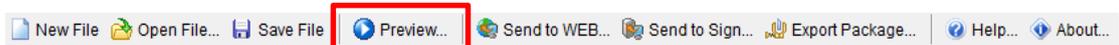


The default Repeat Time is 10 which can be modified. After addition, the left border will appear 10 items which is the effect of setting Repeat Time 10. If you add multiple image files, and the number of repetitions is different, the software will play these image files evenly. As shown below, the number of three image files' Repeat Time were 3, 5 and 7. Start time is 8.00.

Time	Caption	File Name	Stay Time	Caption	File Name	Stay Time	Repeat Ti...	Status
08:00:00	Penguins	C:\Users\Public\Pictures\IS	00:00:10	Penguins	C:\Users\PublicPictu...	00:00:10	3	Valid
08:00:10	Lighthouse	C:\Users\Public\Pictures\IS	00:00:10	Lighthouse	C:\Users\PublicPictu...	00:00:10	5	Valid
08:00:20	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10	Chrysanthe...	C:\Users\PublicPictu...	00:00:10	7	Valid
08:00:30	Lighthouse	C:\Users\Public\Pictures\IS	00:00:10					
08:00:40	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					
08:00:50	Penguins	C:\Users\Public\Pictures\IS	00:00:10					
08:01:00	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					
08:01:10	Lighthouse	C:\Users\Public\Pictures\IS	00:00:10					
08:01:20	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					
08:01:30	Lighthouse	C:\Users\Public\Pictures\IS	00:00:10					
08:01:40	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					
08:01:50	Penguins	C:\Users\Public\Pictures\IS	00:00:10					
08:02:00	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					
08:02:10	Lighthouse	C:\Users\Public\Pictures\IS	00:00:10					
08:02:20	Chrysanthemum	C:\Users\Public\Pictures\IS	00:00:10					

3.3.7 Preview

When the program list is created, preview it first.



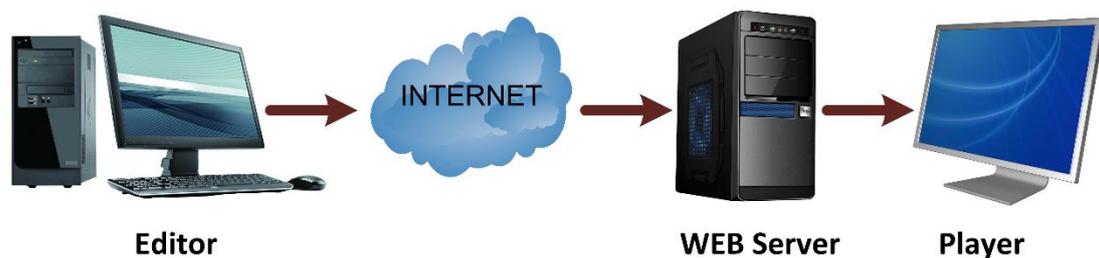
The preview screen:



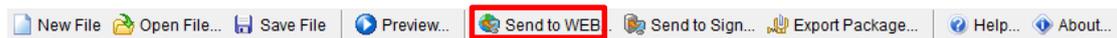
3.4 Publish Playlist

Here are 3 methods of publishing playlist by PVEditor.

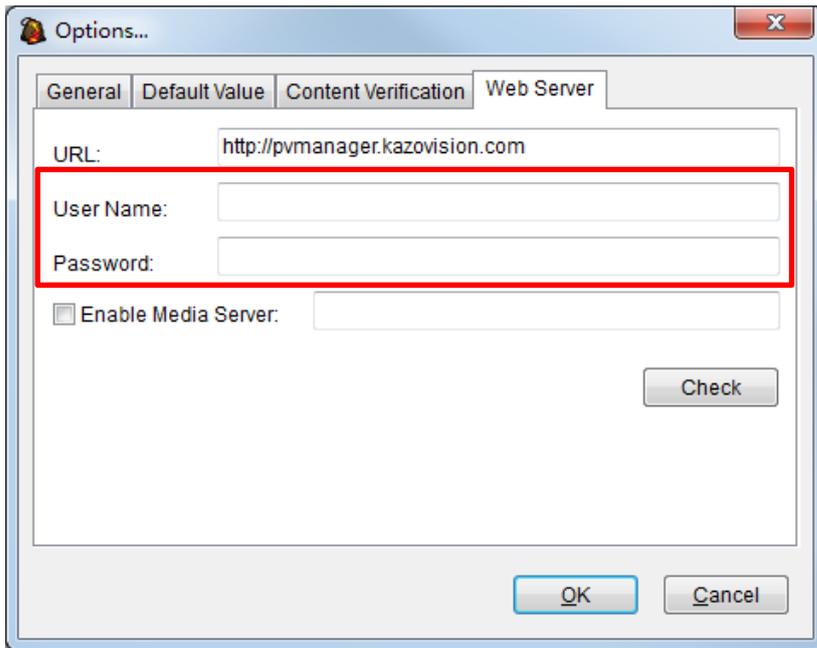
3.4.1 Send to WEB



Using PVEditor to edit playlist, when completed, click the “Send to WEB” button in the toolbar.

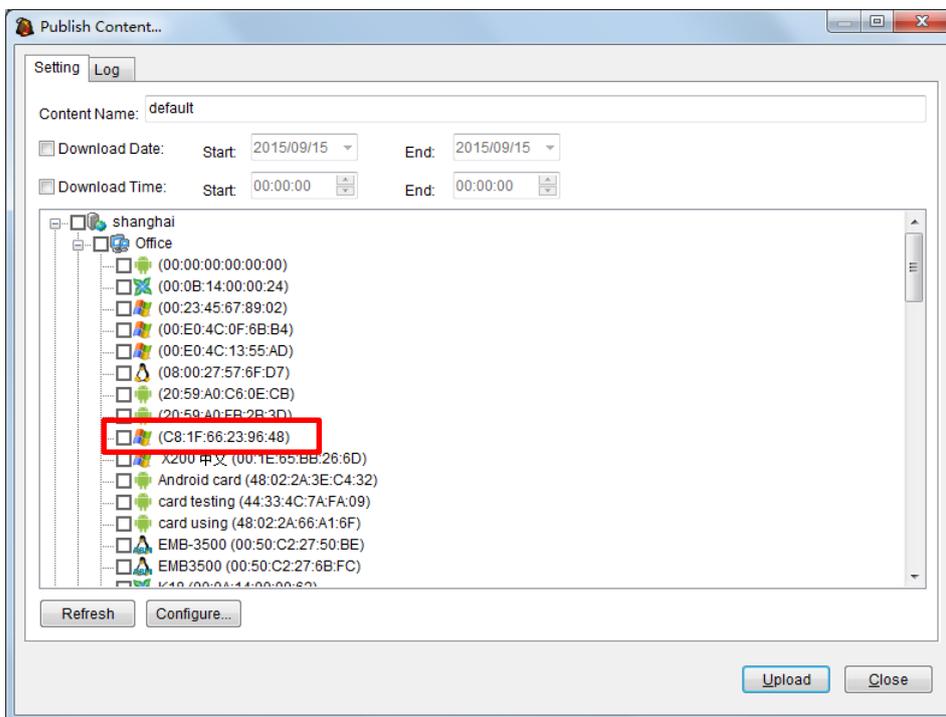


Then the “Send to WEB” dialog will popup. You should set the Web Server for the first time, click the configure button, and input the User Name and Password.



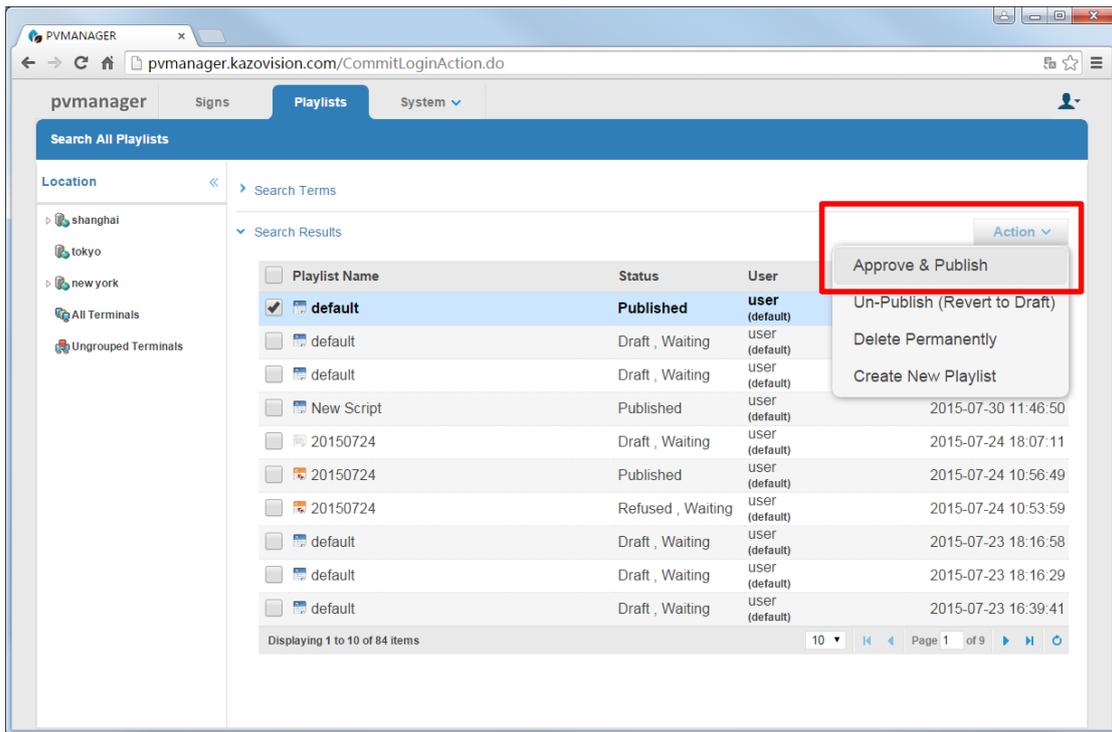
Click the “OK” you’ll see the list of assigned signs.

Check the sign you want to publish a playlist to, and click the “Upload” button, it will publish the playlists to the Web Server.

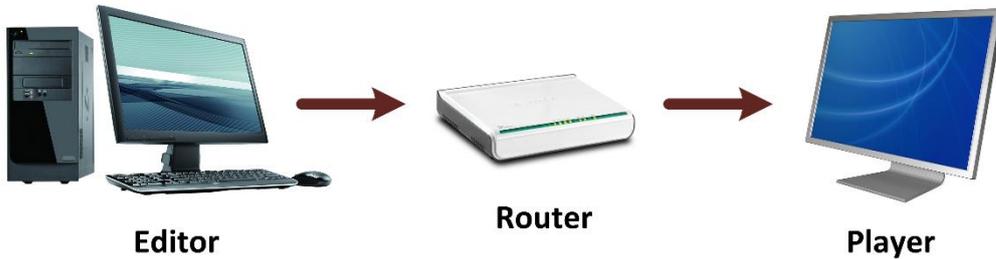


Login WEB server, click “Playlists”, and check the playlist you just uploaded, then click the “Approve & Publish” button to commit it, the verify status will turn into “PASSED”.

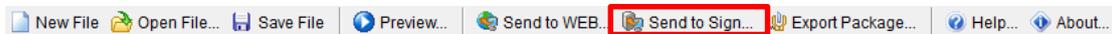
Once the verify playlist passed, the player will download the content and play it.



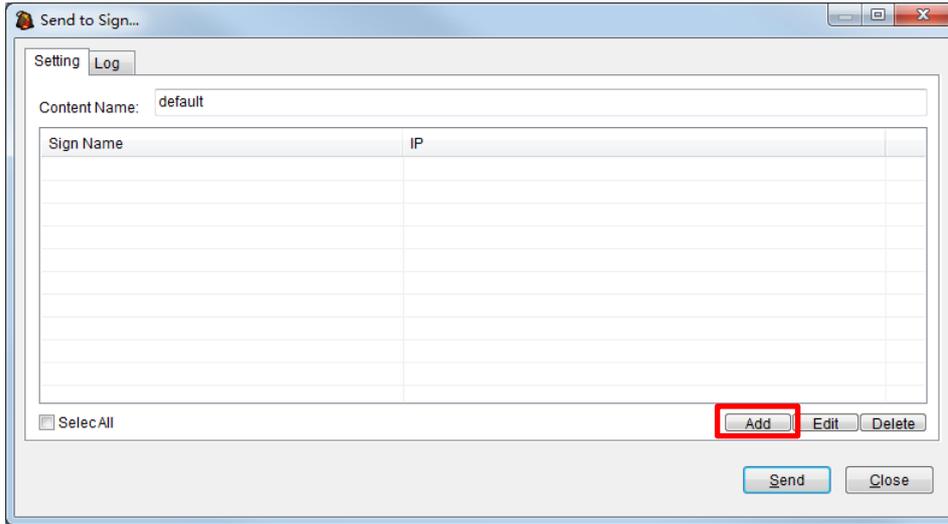
3.4.2 Send to Sign



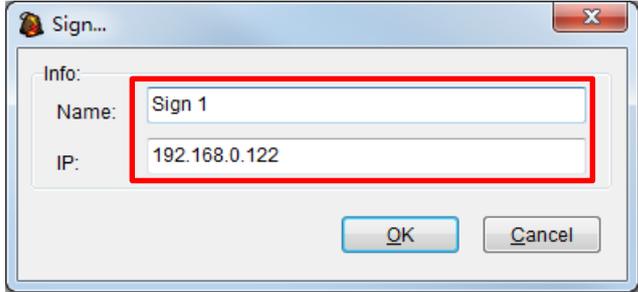
While a playlist be made, click the “Send to Sign” button.



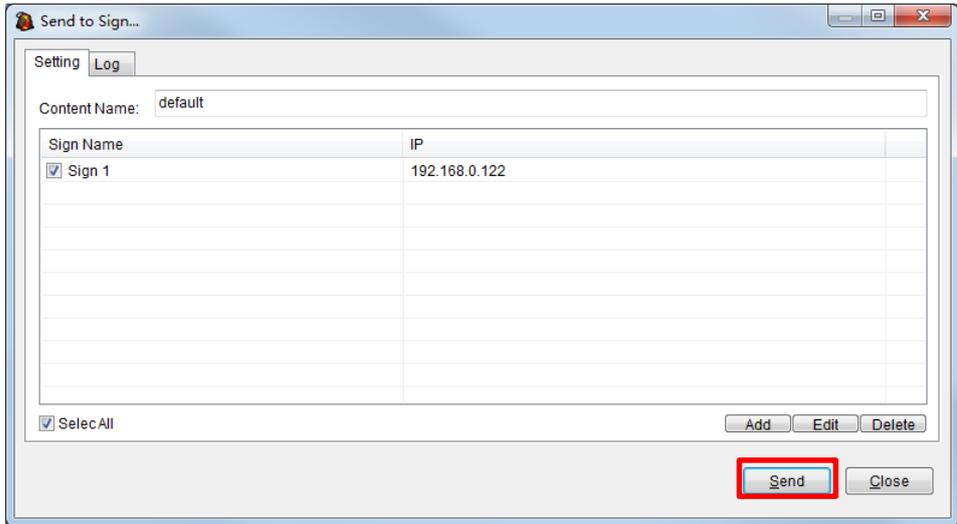
Click “Add” in the following page to add a sign.



Set the name and input the IP address of the sign.



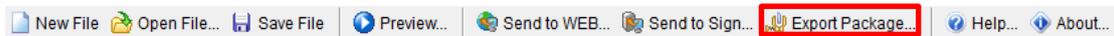
Check the sign then click "Send" button to complete the publication.



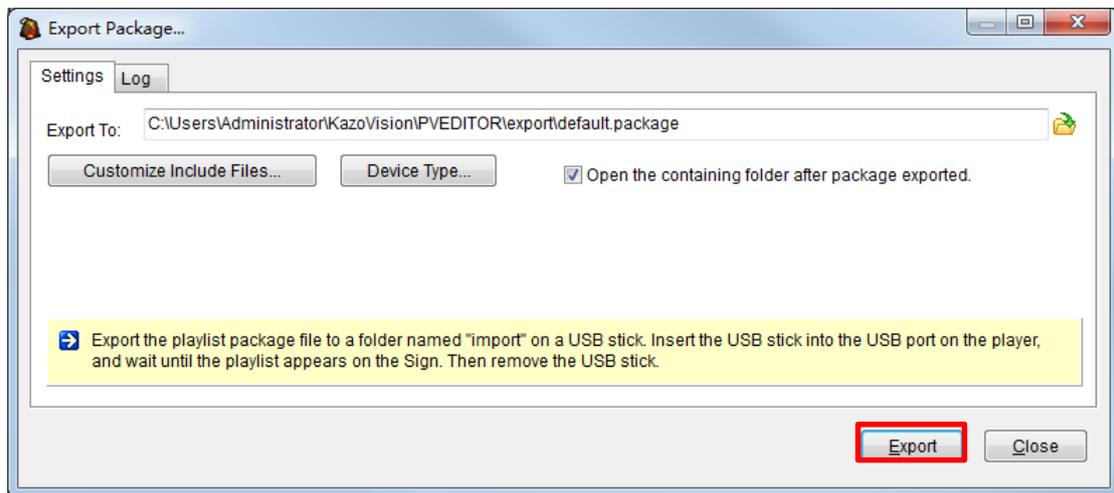
3.4.3 Export Package



While a playlist be made, click the “Export Package” button.



Click “Export” button in the following page.

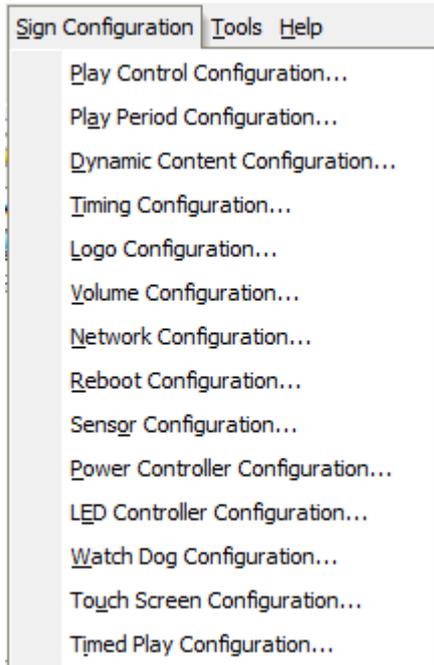


When finished, the package file will be in the folder.

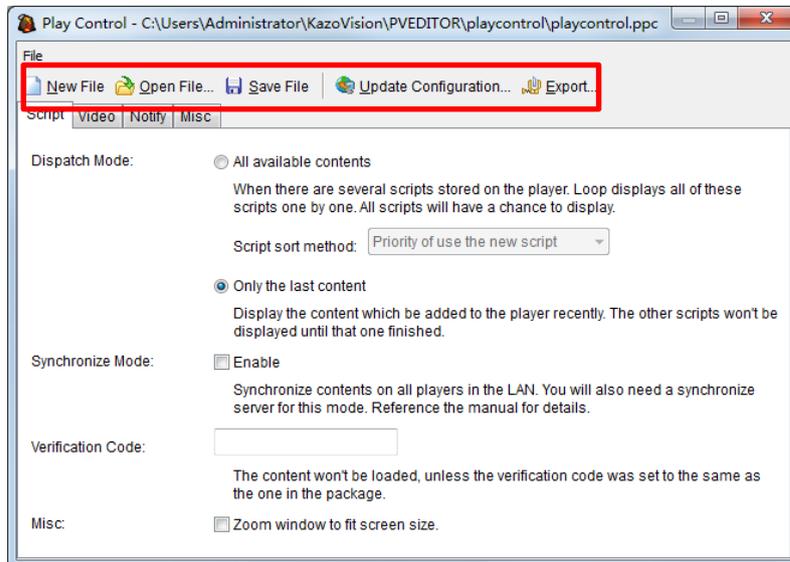
Copy the package into a folder named “import” of a flash disk. Then plug it to the player PC, it will be loaded automatically.

4. Sign Configuration

14 configuration options provided in the Editor Sign, you could update it to the Player directly, or sent it through the Web Server as well as import it by the Player.



4.1 Play Control Configuration



There are five buttons framed in each sign configuration.

Update Configuration: Import the current configuration to the Player at once.

Export: Export the configuration to an offline package file, and import it to the Player later.

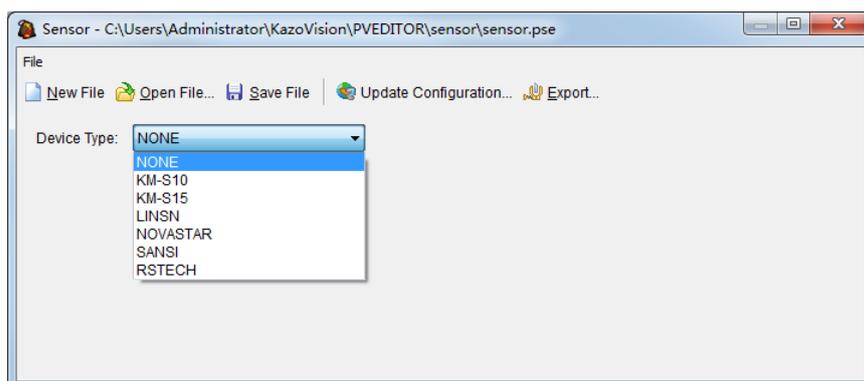
Script tab: dispatch mode, synchronize mode (Only Support Linux System), verification code, and misc.

Video tab: Used to select video and video stream.

Notify tab: Used to set notification options.

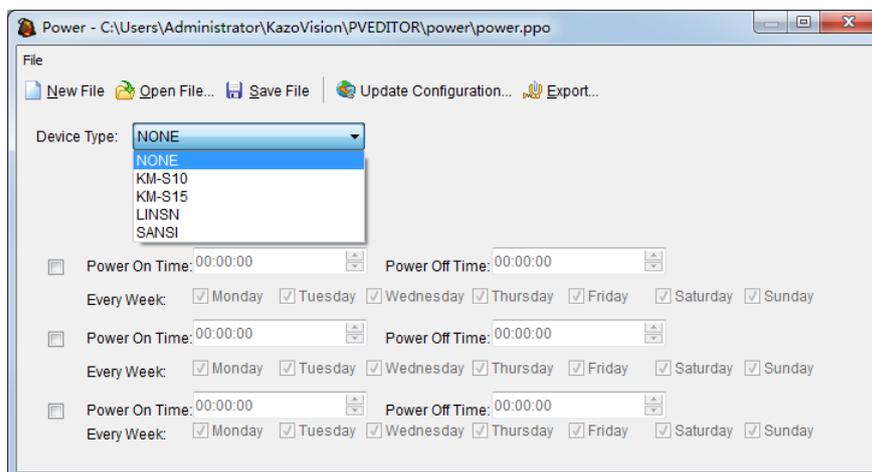
Misc tab: Show floating clock on the screen when no contents need to be displayed. It's just used to check the screen.

4.2 Sensor Configuration



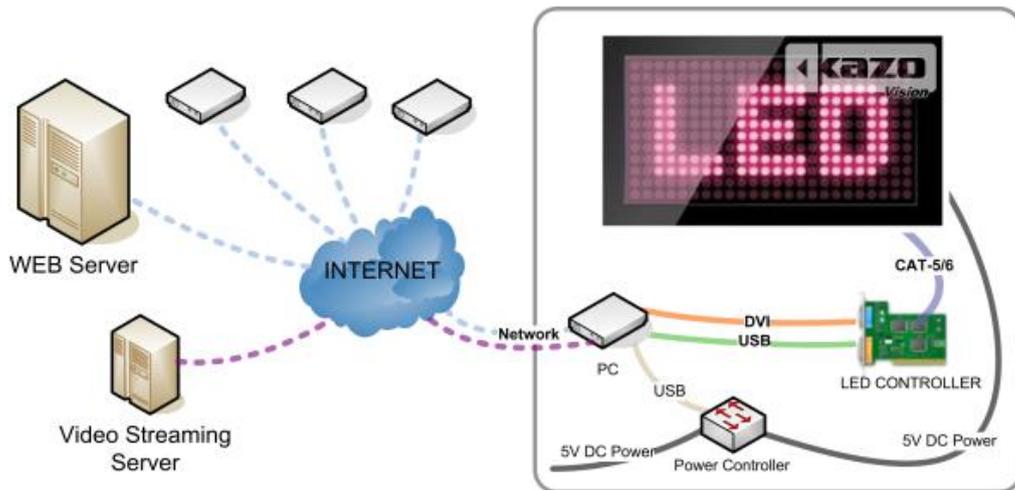
We provide 6 device types: KM-S10, KM-S15, LINSN, NOVASTAR, SANSI, RSTECH in the sensor configuration.

4.3 Power Controller Configuration



Choose the device type, then set the power on time and power off time.

4.4 LED Controller Configuration

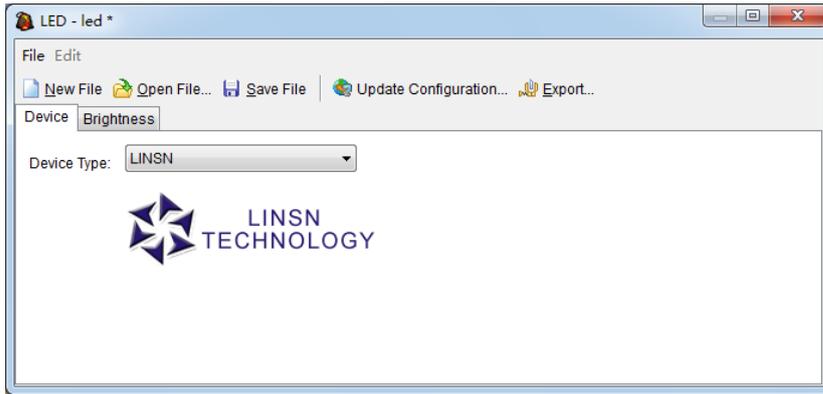


The PVS system can be applied to different kinds of LED screen, and realize the RMON.

LINSN Controller http://www.linsn.com 	DBSTAR Controller http://www.dbstarled.com 	SANSI V3 Controller http://www.sansitech.com 
ZDEC Controller http://www.zdec.com 	NOVA Controller http://www.novastar-led.com 	COLORLIGHT Controller http://www.lednets.com 
MOONCELL Controller http://www.mooncell.com.cn 		

The LED configuration is specifically provided for supporting the screen brightness adjustment of LED device controller.

4.1.1 Device

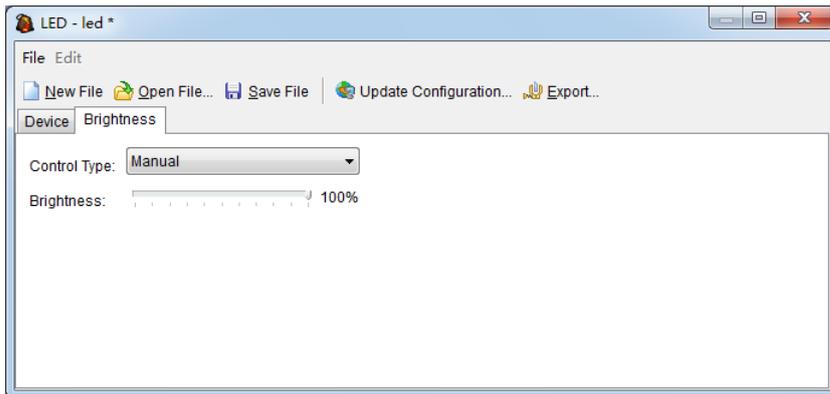


The devices support to adjust the screen brightness:
LINSN, DBSTAR, MOONCELL, SANSI, NOVASTAR

4.1.2 Brightness

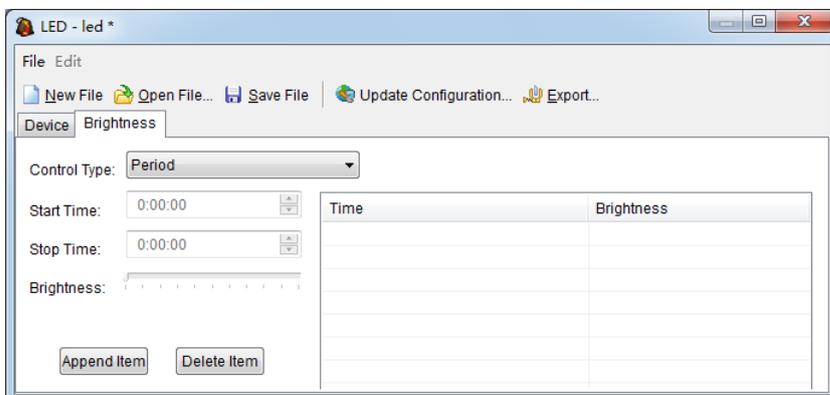
Four control types are provided to adjust the brightness.

Manual:



Drag the scroll bar to configure the brightness.

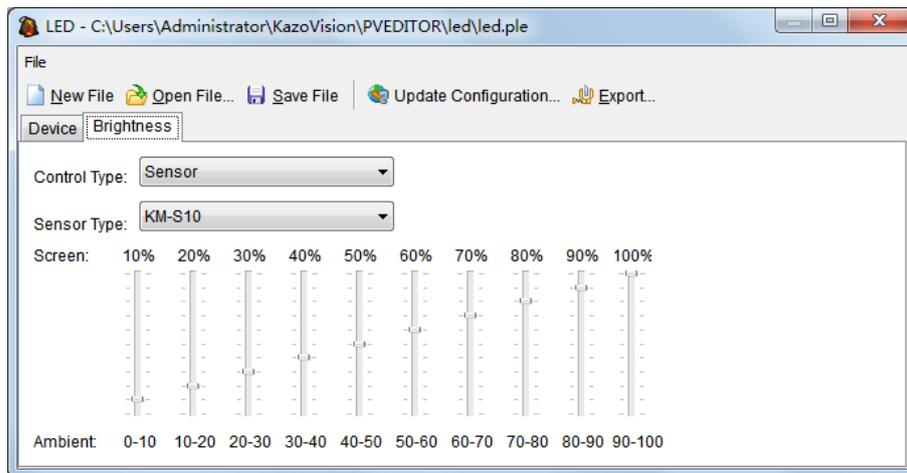
Period:



On the basis of manual, you could append any period to configure the brightness.

E.g. brighter in the morning and darker at night.

Sensor:



Sensor Type: KM-S10, KM-S15, LINSN, SANSEI.

Configure different brightness according to the ambient collected by the sensor.

5. Player

The PVPlayer is used to display the media info in PVSystem, it is installed to play the content package on time. It can stably for a long time and need no one to operate.

It will get the update info from the Web Server automatically and send feedback.

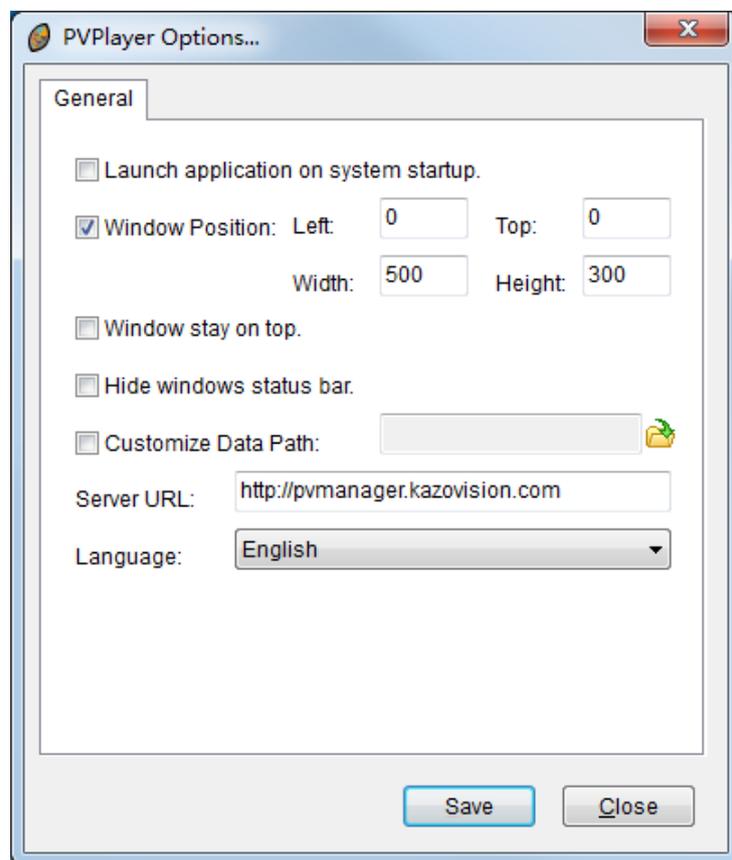
5.1 PVPlayer Options (for Microsoft Window)



Install the PVPlayer, double click the shortcut icon on the desk to launch the options.

If the "Window Position" is unchecked, the PVPlayer launched with full screen.

Customize Data Path default to system path while it's blank.



5.2 Interface and Configure

While the player connected to the internet, it will communicate with the Web Server and register it.

5.2.1 PVPlayer Configuration

Press F2 in the playing interface turns to the configuration menu.

```
VERSION: 0.12 (2015-07-10)          MAC: C8:1F:66:23:96:48
TERMINAL NAME:                      RESOLUTION: 1920 X 1080
WEB SERVER: http://pvmanager.kazovision.com  COMMUNICATE STATUS: SUCCESS

Please input the password:
```

Input the password to the main menu interface. (Default password is blank)

```
VERSION: 0.12 (2015-07-10)          MAC: C8:1F:66:23:96:48
TERMINAL NAME:                      RESOLUTION: 1920 X 1080
WEB SERVER: http://pvmanager.kazovision.com  COMMUNICATE STATUS: SUCCESS

Main menu:
(0). Modify Terminal Name
(1). System status
(2). Modify WEB server address
(3). Modify running mode
(4). Modify system time
(5). Delete content
(6). Modify password
(7). Shutdown
(8). Reboot
(9). Reset
```

10 options in this menu, just input its number and press Enter.

5.2.2 Shortcut to Playing

The PVPlayer provides three shortcuts to control the contents.

- (1) F5: Forward to next item
- (2) F6: Pause display
- (3) F7: Resume display

5.3 Events Log

Press F4 to open/close the “Events Log” menu.

```
Sensor:  Power:  Led:  Network:  2015-08-19 18:13:15

2015-08-19 17:43:12.810 [] INFO pvprApplication - Initializing dynamic content...
2015-08-19 17:43:12.810 [] WARN pvprDynamicContent - Configure file not exists.
2015-08-19 17:43:12.919 [] INFO pvprApplication - Initializing logo...
2015-08-19 17:43:12.919 [] WARN pvprLogo - Configure file not exists.
2015-08-19 17:43:13.028 [] INFO pvprApplication - Initializing volume...
2015-08-19 17:43:13.028 [] WARN pvprVolume - Configure file not exists.
2015-08-19 17:43:13.137 [] INFO pvprApplication - Initializing network...
2015-08-19 17:43:13.137 [] WARN pvprNetwork - Configure file not exists.
2015-08-19 17:43:13.246 [] INFO pvprApplication - Initializing shutdown...
2015-08-19 17:43:13.246 [] WARN pvprShutdown - Configure file not exists.
2015-08-19 17:43:13.356 [] INFO pvprApplication - Initializing timing...
2015-08-19 17:43:13.356 [] WARN pvprTiming - Configure file not exists.
2015-08-19 17:43:13.465 [] INFO pvprApplication - Initializing device...
2015-08-19 17:43:13.465 [] WARN pvprSensorDeviceController - Configure file not exists.
2015-08-19 17:43:13.465 [] WARN pvprPowerDeviceController - Configure file not exists.
2015-08-19 17:43:13.465 [] WARN pvprLedDeviceController - Configure file not exists.
2015-08-19 17:43:13.574 [] INFO pvprApplication - Initializing touch screen...
2015-08-19 17:43:13.574 [] WARN pvprTouchScreen - Configure file not exists.
2015-08-19 17:43:13.683 [] INFO pvprApplication - Initializing options...
2015-08-19 17:43:13.792 [] INFO pvprApplication - Initializing external control...
2015-08-19 17:43:13.902 [] INFO pvprApplication - Initialize...
2015-08-19 17:43:15.488 [pvprDeviceManagerCommunicateThread] INFO pvprDeviceManagerCommunicateThread -
Device manager connected.
```

The marks next to the “Sensor:”, “Power:”, “Led:”, “Network:” display the connection status of them.

Events Log updates every 30 seconds.

Red indicates an error message. Brown indicates a warning message. Green indicates the correct information.

5.4 Install Linux System

Boot the PC entering the BIOS menu, set the First Boot to CD-ROM.

Insert the system installation disk and reboot the PC.

According to the notice, install the system with a few operations.

Language			
Amharic	Gaeilge	Malayalam	Thai
Arabic	Galego	Marathi	Tagalog
Asturiano	Gujarati	Nepali	Türkçe
Беларуская	ᠮᠠᠨᠤᠯᠤᠯ	Nederlands	Українська
Български	Hindi	Norsk bokmål	Tiếng Việt
Bengali	Hrvatski	Norsk nynorsk	中文(简体)
Bosanski	Magyar	Punjabi (Gurmukhi)	中文(繁體)
Català	Bahasa Indonesia	Polski	
Čeština	Íslenska	Português do Brasil	
Dansk	Italiano	Português	
Deutsch	日本語	Română	
Dzongkha	ქართული	Русский	
Ελληνικά	Қазақ	Sámegillii	
English	Khmer	සිංහල	
Esperanto	ಕನ್ನಡ	Slovenčina	
Español	한국어	Slovenščina	
Eesti	Kurdî	Shqip	
Euskara	Lao	Српски	
عسراک	Lietuviškai	Svenska	
Suomi	Latviski	Tamil	
Français	Македонски	தமிழ்	

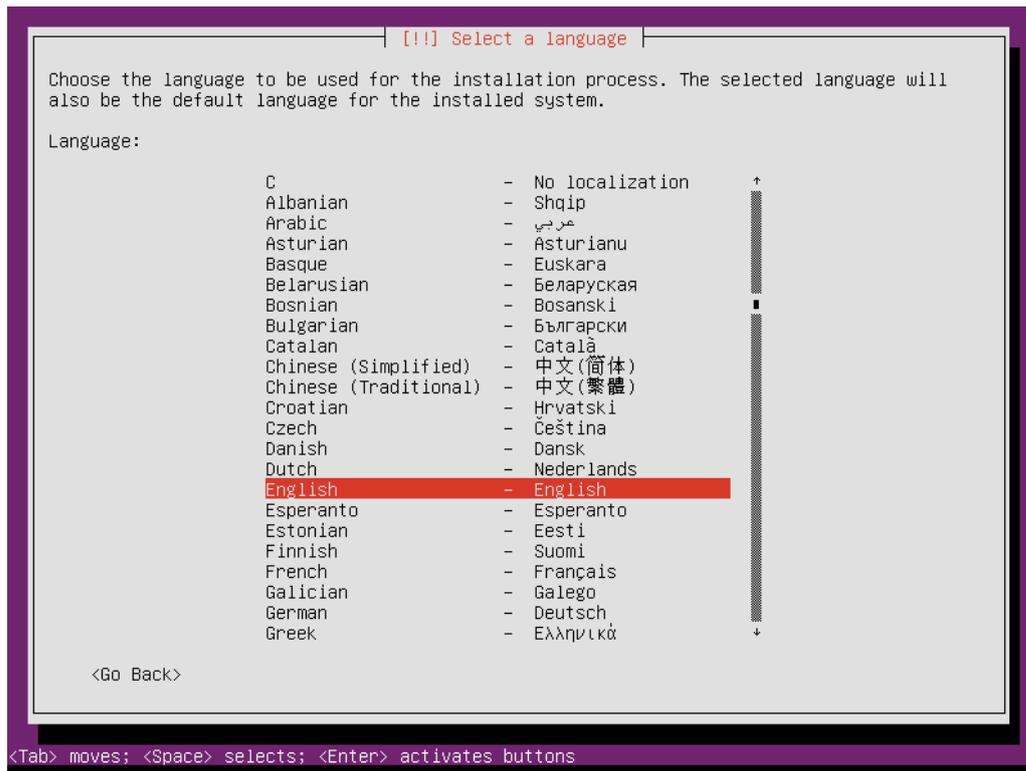
F1 Help F2 Language F3 Keymap F4 Modes F5 Accessibility F6 Other Options



Install Ubuntu

- Check disc for defects
- Test memory
- Boot from first hard disk
- Rescue a broken system

F1 Help F2 Language F3 Keymap F4 Modes F5 Accessibility F6 Other Options



When it is finished, the PVPlayer will be launched with full screen on system startup.



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