P Camera

User manual

Please read and understand this manual before attempting installation of the product.

TP Camera

X Series

User Manual

Jan, 2015

V1.0



Statement

If the user manual doesn't help you to solve the problem, please call our technology center for technical support.



1. Installation Environment

- * Keep away from the places for high-temperature, heat source and direct sunlight;
- * Keep away from water and if wet, power off immediately.
- Avoid using in the damp environment; the reference range for operation humidity is below 85%RH.
- * Avoid using in too hot or too cold environment, the reference range for operation temperature is $-10^{\circ}C \sim +40^{\circ}C$
- Please install it horizontally or wall mount, avoid strenuous vibration and do not place other items on top of the unit.

2. Transport and Handling

- Please handle the item carefully.
- [®] Do not move the item between too hot and too cold areas.
- Please disconnect the item from the mains before moving.



- 1. Do not fall down the camera or beat it strongly.
- 2. Do not touch the optical components for the image sensor, such as the lens, if necessary, please place a clean and moistened cloth with alcohol and wipe the dirt gently; When not in use, please place the dust cover onto the item to protect the image sensor.
- 3. Do not aim the camera directly into the sun or at other intense light sources that could affect the image quality, this will also shorten the service life for the image sensor.
- 4. Keep away from laser when it is working, otherwise the image sensor can be damaged.
- 5. If the equipment is not working properly, please contact the store or the service centre, do not disassemble or modify the equipment in any way.



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1 Product Introduction

1.1. Product Overview

Thank you for choosing X series high definition SmartP2P IP Camera, the IP Camera combines a high definition digital video camera with network connectivity and a powerful web server to bring high definition video to your desktop from anywhere on your local network or over the Internet. It includes indoor HD PTZ camera, indoor HD cube camera, outdoor HD waterproof camera etc. It is very suitable for home, shops, offices and so on.

Product features:

- Support High profile H.264 encoding, 3 kinds of resolution video stream simultaneously, suitable for Local, Internet and Cross-platform view;
- Support Wi-Fi protocol 802.11b/g/n;
- Support WPS/QSS one key Wi-Fi configuration;
- Support one touch Wi-Fi configuration on mobile phone before connect to the network;
- Support max. 64G SD/TF card storage for the alarm video and pictures, timing snapshot and recording, support MP4 format;
- > Built-in web server, use one port to send all the data, users can facilitates network setting;
- Support IE/Firefox/Chrome/Safari browser to view video and configure deice;
- Support P2P private network through transmission via manufacturer cloud platform;
- Provide IOS/Android mobile phone Apps;
- > Provide Windows/Mac OS PC client software.

1.2. Product Exposition

Please check carefully if all listed items are included in the package, it includes camera, power adapter, network cable, installation bracket. If anything missing, please contact vendor in time.

The camera functions maybe different due to different product model, the main functions as below:

- **Main chip and sensor:** Due to main control chip and sensor is different, so the camera support different resolution:720P, 1080P and above;
- **Power input port:** Check power supply if 5V or 12V. Plug right power supply, or it will damage the camera or cannot run. We suggest to use the default power adapter.
- **RJ45 Port:** Network port;
- Wi-Fi function: The device features Wi-Fi function, built-in Wi-Fi module and antenna. The Wi-Fi antenna includes built-in Wi-Fi antenna, integration antenna, separated antenna and so on. The separated antenna would be packed with the camera in the gift box, users should install it to camera before it works.
- **IR-CUT:** A filter switching device, from day and night to switch to a different filter, then forbid or allow the infrared light in, which make the picture more true;
- Lens: Due to focus length of lens is different, so vision angle of lens is different. Please twist the



lens for best effect if the video is fuzzy;

- **PTZ:** Control PTZ remotely, view video from several vision angle. Some device have PTZ function and some device have not PTZ due to the product cover is different, and PTZ moving angle maybe different;
- **SD socket:** Some product use SD socket and some use MicroSD socket due to the products cover are different, Max support 64GB memory card;
- **MIC inside:** Can collect the sound from camera workplace;
- Speaker inside: can play sound from device start, talking and alarm;
- Audio in port: If the camera without MIC in it, you can connect extra MIC to collect sound;
- Audio out port: If the camera without speaker in it, you can connect extra sound systems;
- Alarm in port: Connect with switchable sensor, check sensor signal if high or low to judge if detect any event;
- Alarm out Port: Connect with external alarm device, control device alarm action when detect any event;
- Reset button: After the camera started, press and hold the reset button for at least 10 seconds, it
 restores default settings and reboot; press and hold the reset button for 3 seconds to set up the
 Wi-Fi by using WPS/QSS; press the reset button briefly, the Wi-Fi indicator will flashes for a few
 seconds while the camera was connecting with Wi-Fi connection, you can assess Wi-Fi signal
 intensity by the flash frequency, the faster flash, the stronger signal;
- Wi-Fi indicator: Blue LED for Wi-Fi indicator that be used to display Wi-Fi work state, such as off, slow flash, fast flash, steady work etc;
- Work status

indicator:Red LED is operation indicator that displays the state of equipment,there are off, slow flash and flashlights flash, when someone access video,otherwise slow flash;

- **POE function:** The function that supply power to camera through network cable. But you need the camera with POE module. the device connect to POE switcher by a network cable and POE switcher supply power for device through the network cable;
- PIR function: The device with PIR sensor, used for detect the human movement, it trigger alarm if detect any abnormal.



2 Device Connection

2.1. Connection Diagram

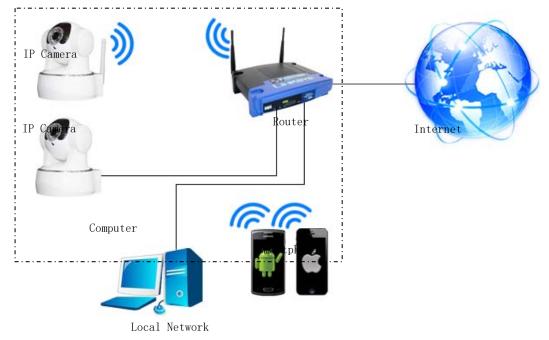


Figure1

Power on the camera by attaching the power adapter, and then connect the camera and router by network cable, so you can visit the camera via computer in LAN and view camera video as <<3. View video by browser>>

You can also connect camera and router by Wi-Fi, you need to configure Wi-Fi of the camera as<<<u>2.2 Wi-Fi Setting</u>>>.

2.2. Wi-Fi Setting

You can setting up the Wi-Fi as the following three way.

2.2.1. Configuration via network cable connection

Connect the camera and router by network cable as Figure1, please login the camera as <<3.View video by browser>>, access to system configuration interface to finish the setting as<<<u>5.1.2.3 Wi-Fi</u> setting>>.Pull up the network cable, then you can connect the router by Wi-Fi.

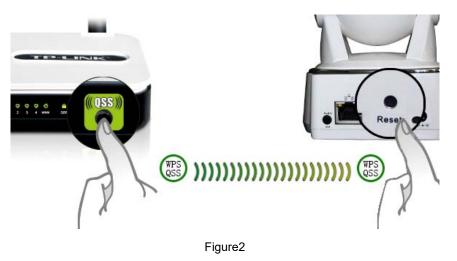
2.2.2. WPS/QSS One key configure Wi-Fi

Power on the camera and wait for 1 minute, the camera started, hold on reset button 3 seconds, and then click "WPS/QSS" button of the router, the camera and router will be configured Wi-Fi as WPS/QSS protocol, after configuration successfully, the blue Wi-Fi indicator of the camera will quickly flash several times, and then it will be connected to router automatically and the blue indicator will be



always on.

Notice: Due to some router do not support WPS/QSS function, so you can not use the configuration way.



2.2.3. Mobile Phone Setting

Install the iSmartViewPro App in android phone or iPhone at first, Open the App, access to **More** interface, select "One key configure Wi-Fi" and fill in Wi-Fi SSID and password, and then click configure to finish the setting as Figure3.





Tips:

- Before configuration, please power on the camera, after 5 minutes, you can configure the camera (blue Wi-Fi indicator flash slowly),otherwise you can't configure, and must power on the camera again;
- Move mobile phone speaker to camera MIC, click **Configure;** (please confirm if the camera have MIC, otherwise the configuration will be unsuccessfully)
- After configuring successfully, the blue Wi-Fi indicator will flash several times quickly, and then connect to router automatically and the blue indicator is always on. You can click **Configure** several times when the configuration is unsuccessfully.



3 View Video by Browser

3.1. Access to camera webpage and install Plug-in

Double click to Open the "SearchPro" in the attached CD and click Search as Figure4.

hPro Tool¥1.0.3				_ 🗆 🗵
	PCa	meri	2	
	TP blbcom	Nata Post	HAC Allower	Series
IPCamera	192. 168. 0. 103	80	00:03:02:58:01:20	X
Series: Not P2P	Search	Browse	Language	English 💌
	IP Setting Device Name IPCamera	Device Name IP Address IPCamera 192.168.0.103	Device Name IP Address Http Port IPCamera 192.168.0.103 80	Device Name IP Address Http Port MAC Address IPCamera 192.168.0.103 80 00.03:02:58:01:20

Figure4

Select the founded device and double click it to open to view in the browser, enter user name and password at popup dialog to login camera webpage as Figure5.

Tips: default username/password:admin/12345, please modify the password for safety.

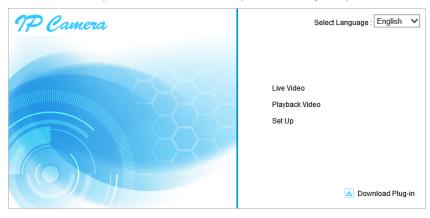


Figure5

• Need to download plug-in when first use, click "download plug-in" as figure 6, click **Run** to install it.



File Down	load - Security Warning
Do you	want to run or save this file?
	Name: HYPlayer.exe Type: Application, 1.96MB From: 192.168.10.233
	Run Save Cancel
۲	While files from the Internet can be useful, this file type can potentially harm your computer. If you do not trust the source, do not run or save this software. What's the risk?

Figure6

3.2. View Live Video

Access to Live Video interface, it plays video automatically as Figure7.

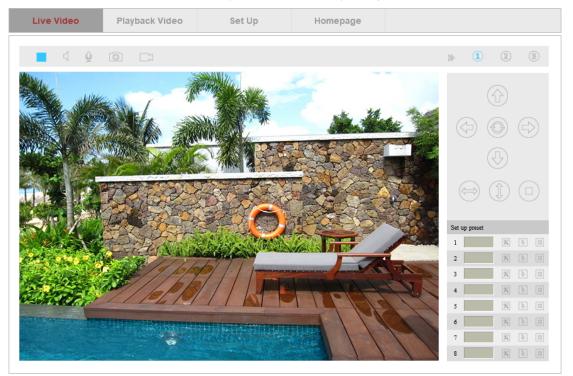
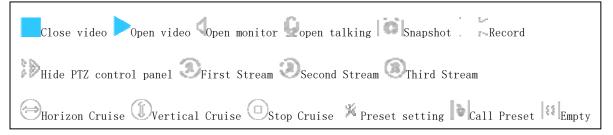


Figure7



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4 Query and Playback SD Record by Browser

4.1. Playback Video

Click Playback Video to access to SD record playback interface, click record date which you want to query ,click **Search** to list recording file, select one to playback it, also can click download button to download the file as Figure8.

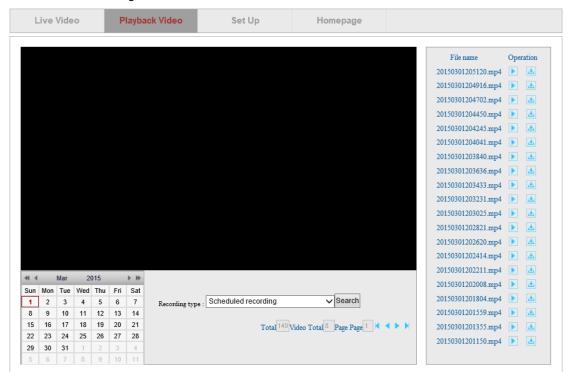


Figure8

5 Device Configuration and Local Setting

5.1. Device Configuration

5.1.1. System

5.1.1.1. Device Status

You can view current user, network connection way, Mac address, SD status and internet ip address of the camera as Figure9.



Device Status	
Current users	0
Network connection	Wired
MAC address	D8:A3:C3:A4:D5:AD
Recording status	in scheduled recording
SD status	SD valid, Total capacity : 3844 MB, Remaining capacity : 644
Internet IP address	Check internet IP

5.1.1.2. Time Setting

Current time	2015-03-01 20:59:48	
Time setting		
Timezone	(GMT+08:00) Beijing, Chongqing, HKSAR, Urumchi	•
Sync. with PC	Confirm	
NTP service		
Enable NTP	✓	
NTP server	time.nist.gov	

Figure10

5.1.1.3. PTZ Setting

You can set up PTZ speed, cruise circles (1-10 turns) and disable motion detection when PTZ moving as Figure 11.

Pan&Tilt setting	
Pan&Tilt speed	Fast spe V
Cruise circles	1 🗸
Auto-check after booting	● ON ◯ OFF
Go centre	● ON ○ OFF

Disable motion detection when PTZ moving

Figure11



5.1.1.4. Other Setting

You can turn off the status LED of the camera and Wi-Fi status LED in other setting as Figure 12.

Indicator setting			
Status LED	● ON ○ OFF		
Wi-Fi LED	● ON ○ OFF		
Figure12			

5.1.1.5. System Maintenance

The system maintenance includes system setting and timing reboot setting. You can set up reboot, backup setting, restore backup setting, upgrade camera and timing reboot etc as Figure 13.

System setting	
Reboot	Reboot
Restore to default	Restore to default
Backup setting	Backup setting
Restore backup setting	Browse Restore backup setting
Upgrade	Browse Upgrade
Restart timing settings	
Enable schedule reboot	
	Sat Fri Thu Wed Tue Mon Sun
	Time : 00 💌 : 00 💌 [hh:mm]
	Figure13

5.1.1.6. Device Information

You can modify device name and check system firmware version, system firmware time and Web UI firmware here as Figure14.

Device information	
Device Name	IPCamera 🕜
System Firmware	00.01.01.0012
System firmware time	2015-02-08 13:55
WebUI Firmware	0.0.0.3

Figure14



5.1.2. Network

5.1.2.1. IP Address Setting

You can modify IP address of the camera etc, the default is DHCP, achieve automatically as Figure 15.

IP setting	
DHCP	v
IP address	192.168.2.200
Subnet mask	255.255.255.0
Gateway	192.168.2.1
Primary DNS	8.8.8.8
Secondary DNS	210.21.196.6

Figure15

5.1.2.2. Port Setting

You can change webpage http port here as Figure16.

Port setting		
HTTP port	80	

Figure16

5.1.2.3. Wi-Fi Setting

Click **Search**, and switch on enable Wi-Fi, select the wireless router you want to connect, enter password of the router, click **Save** to finish the Wi-Fi configuration. Click **Test** to test if it can be connected to the router after finishing the configuration as Figure 17.



Wireless Network List :	100%11[ipcamera]AESWPAPSK	^	
		~	
	Search		
Enable WI-FI :	● ON ○ OFF		
SSID :	ipcamera		
Authorization :	WPA2-PSK V		
Encryption :			
Key :			
		Test	Save

5.1.2.4. Port Forwarding

Access to port forwarding, you can enable UPNP port forwarding and check the status of it as Figure 18.

UPNP setting			
UPNP port forwa	arding ON O 	OFF	
	-		
UPNP status	?		
	•		
	Port type	Port	Status
	-	Port 80	Status Success

Figure18

5.1.2.5. DDNS Setting

You can enable manufacturer's DDNS and set up third party DDNS (the third party DDNS support 3322.org/Dyndns.org/No-ip.com now, the manufacturer provide a free DDNS for every camera.



Manufacturer'S DDNS setting	
Manufacturer'S DDNS	○ ON
Manufactuer'S DDNS	
Third party DDNS setting	
Third party DDNS	○ ON
DDNS server	3322.org
Username	
Password	
Third party DDNS	

5.1.2.6. RTSP Setting

You can set up RTSP port, also can close RTSP authentication as Figure20.

RTSP setting	
Authentication	● ON ○ OFF
RTSP port	554

Figure20

You can view video by some general RTSP stream media software, for example, VLC. The visit link as below:

First stream: rtsp://user:password@IP:rtsp port/live/ch0 Second stream: rtsp://User:password@IP:rtsp port/live/ch1 Third stream: rtsp://user:password@IP:rtsp port/live/ch2

5.1.2.7. FTP Setting

Access to FTP setting, please fill in relative FTP parameters as the following case to achieve the FTP transfer as Figure21.

FTP setting	
FTP server address	192.168.2.3
Server Port	21
Username	admin
Password	•••
Path	J





5.1.2.8. SMTP (E-mail) Setting

Please fill in relative parameters as the following case to achieve the E-mail transfer, as Figure 22.

Email setting	
SMTP server address	smtp.gmail.com
Server Port	25
Security connection	SSL/TLS V
Authentication	● ON ○ OFF
Username	estest1990@gmail.com
Password	•••••
Sender address	289893348@qq.com
Receiver address #1	lilong19901017@163.con
Receiver address #2	97199004@qq.com
Mail subject	alarm
Mail content	alarm
	Test Save Refresh
	— — — —

Figure22

5.1.3. Audio and Video

5.1.3.1. Video Encoding Setting

Access to Video Encoding setting, you can set up AC frequency and video stream as Figure23.

AC frequency: 50HZ and 60HZ optional;

Video stream: Bit rate $(256\sim4096kbps)$, frame rate $(1\sim30fps)$, video encoding control etc; Tips: you can set up the video with audio or not.

AC frequency	
AC frequency	50HZ V
Select stream	 First stream \bigcirc Second stream \bigcirc Third stream
Resolution	1920*1080 🗸
Bit rate	3072kbps 🗸
Frame rate	25 🗸
Stream control	Variable bitrate V
Stream type	With audio



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Figure23

5.1.3.2. Volume Setting

Access to Volume setting, you can adjust the volume of MIC and speaker as Figure24.

Volume setting		
MIC volume		70
Speaker volume		70
	Figure24	

5.1.3.3. Image Setting

Access to Image Setting, you can flip and mirror the image, also can adjust the brightness, contrast, saturation and hue of image for getting best color effect as Figure25.

30	V. SM	Martine 34
	Statt 1	
	Q.	In:
E. K.B. A		19-19-20-
Brightness :		128
Contrast :	_	128
Saturation :		128
Hue :		128
	🗌 Flip 🗌 Mirro	or
	Figure25	

5.1.3.4. OSD Setting

Access to OSD setting, you can overlay the time and name in Live video as Figure26.

OSD setting	
Overlay Time	● ON ○ OFF
Overlay Name	● ON ○ OFF
Name setting	IPCamera



5.1.3.5. Night vision Settings

Access to Night vision Settings, you can set up IR LED and IRCUT as Figure27.

IR LED setting	
Turn Off IR LED	
IRCUT Setting	
Shift mode	● Auto ◯ Manual ◯ Timing
Brightness	20 2
	Figure27

5.1.4. Safety

Access to User management, you can add or edit the user as Figure28.

Username	Password	User authorization
admin	•••••	Administrator
user	••••	Operator
guest	••••	Viewer

Figure28

Tips: After setting up, click save and refresh button, the entering info will display in the webpage.

5.1.5. Alarm

5.1.5.1. IO Detect

Access to IO detector, can enable detect function and set up input signal type as Figure29.

IO setting		
IO detector		
Sensor type	● close is valid ○ open is valid	
	Figure29	

5.1.5.2. Motion Detection

Access to motion detection, you can set up Max 4 detection area, also can set up the sensitivity for every area as Figure30.

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5.1.5.3. Audio Detection

Access to audio detection, you can enable audio detection and set up sensitivity of it as Figure 31.

Audio setting	
Audio detection	● ON ○ OFF
Sensitivity	5

Figure31

5.1.5.4. Linkage alarm setting

You can set up IO detect, motion detection and audio detect, it can linkage to trigger the action: snapshot to Email or FTP server or SD card, recording to FTP server or SD card, and trigger IO output as Figure 32.

Tips: The usage for combination of alarm trigger in alarm trigger type:

For example, you enable the audio detection and motion detection, so the camera is enabled combination of alarm trigger, it will perform the action in alarm action setting when the audio detect and motion detection detect any change.



Alarm action setting	
✓ Snapshot to Email	
✓ Snapshot to FTP server	
 Recording to FTP server 	
Snapshot to SD	
Recording to SD	
✓ Trigger IO output Alarm duration: 5 ✓ Second	
✓ Trigger preset Preset : 1 ∨	
✓ Trigger speaker Alarm duration : 5 ✓ Second	
Alarm trigger type	
Alarm trigger type Trigger independently Trigger jointly	0



5.1.5.5. Protected duration setting

After setting up alarm detect type and alarm trigger linkage, you need to set up protected duration. You must set up it, then the camera perform trigger linkage; the time format is 7 days, 24 hours per day, 15 minutes per a block as Figure33.

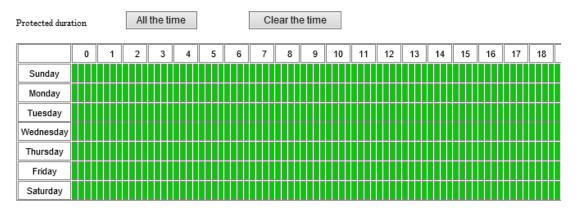


Figure33

5.1.6. Storage

5.1.6.1. SD Management

Access to SD management, you can check and download recording and snapshot file in SD card, and check SD card remaining capacity, format SD as Figure 34.



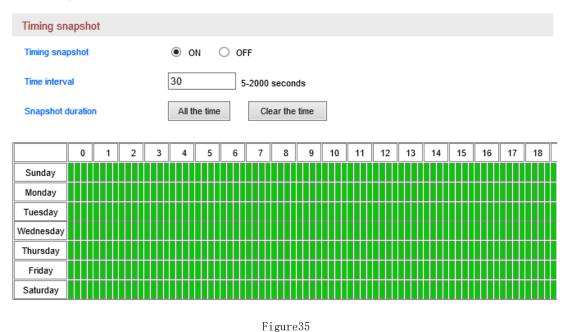
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SD Management		
SD Management	Check SD	Format SD
SD status	SD valid	
Total capacity	3844 MB	
Remaining capacity	672 MB	

Figure34

5.1.6.2. SD card snapshot setting (Timing Snapshot)

Access to setting of timing snapshot to SD card, you can enable SD snapshot, you can set up snapshot time interval and snapshot duration; time format is 7 days, 24 hours per day, 15 minutes per a block as Figure35.



5.1.6.3. SD Card Recording Setting

Access to SD Card Recording Setting, you can enable SD recording and set up recording duration for every file; time format is 7 days, 24 hours, 15 minutes per a block as Figure 36.

Tips: it will overlay SD recording file automatically by default; it will overlay previous recording file when the SD space is full.



Scheduled recording								
SD Recording	ording ON OFF							
Recording duration	120 Recording file duration (15-900 seconds)							
Recording bit rate	it rate First stream 🗸							
Recording duration All the time Clear the time								
0 1 2 3	3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18						
Sunday								
Monday								
Tuesday								
Wednesday								
Thursday								
Friday								
Saturday								

5.1.7. Log

Access to Log menu, you can check the user operation log as Figure37.

Live Video	Play	yback Video	Set Up	Homepage							
Device Configuration	^	Log									
 System 											
Network		Log									-
Video&Audio		-	:09:35,admin,set mac add	ress							
 Security 			:11:00,admin,set mac add	ress							
 Alarm 			:39:26,admin,set net attr :40:33,admin,set http port								
 Storage 		2013 03 02 11	. 10.55, admin, set http port								
 Log Local Configuration 	^										
and the second second second	^				4.4			0.15			1
	^							015	Cri.	> >>	:
	^				Sun	Mon Tu	e Wed	Thu		Sat	Ŧ
and the second second second	•						e Wed		Fri 6 13	Sat	
	^				Sun 1 8 15	Mon Tu 2 3 9 1 16 1	Wed 4 11 7 18	Thu 5 12 19	6 13 20	Sat 7 14 21	-
and the second second second	^				Sun 1 8 15 22	Mon Tu 2 3 9 1 16 1 23 2	wed 4 11 7 18 4 25	Thu 5 12 19 26	6 13 20 27	Sat 7 14 21 28	
141 - 1100-	^				Sun 1 8 15 22 29	Mon Tu 2 3 9 1 16 1 23 2 30 3	Wed 4 0 11 7 18 4 25 1 1	Thu 5 12 19 26 2	6 13 20 27 3	Sat 7 14 21 28 4	- - - - -
Log Local Configuration	•				Sun 1 8 15 22 29 5	Mon Tu 2 3 9 1 16 1 23 2	Wed 4 0 11 7 18 4 25 1 1 8	Thu 5 12 19 26 2 9	6 13 20 27 3 10	Sat 7 14 21 28	

Figure37



5.2. Local Setting

Access to local setting, you can set up recording path, snapshot path and recording duration as Figure 38.

Tips:

- You must use administrator to run the browse, then recording path and snapshot path can be save successfully at above IE9; the default recording path is D:\HYRec,snapshot path is D:\HYSnap.
- You can enable show motion detection frame when viewing video.

D:\HYRec	Browse
D:\HYSnap	Browse
600 Second	
	D:\HYSnap





FCC Caution:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -- Reorient or relocate the receiving antenna.
- -- Increase the separation between the equipment and receiver.
- -- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio/TV technician for help.