

3MP LPR IP CAMERA

ART. ANPR922M3M



Please read this manual thoroughly before use and keep it for future reference

Contents

1. Webpage Overview	4
2. Web Log in	4
3. Preview	5
3.1 Main stream and Sub-stream Switching.....	5
3.2 Prompt Alarm.....	5
3.3 Timing Recording	6
3.4 Recording Video Manually.....	6
3.5 Switching Picture Ratio	6
3.6 Audio Function.....	7
3.7 Snapshot Function	7
3.8 Showing Sidebar Function.....	7
3.9 OSD Function	7
3.10 Image Parameter Adjustment Setting	8
3.11 Watermark Setting	9
3.12 Video Reconnection.....	10
3.13 Video Full Screen Display	10
4. Video Playback	11
4.1 Local Video Playback.....	11
4.2 Remote Recording Playback.....	14
5. Checking Pictures	17
5.1. Checking Pictures	17
6. Setting.....	18
6.1. Local parameter	19
6.1.1. Path configuration	19
6.1.2. Local recording plan.....	20
6.2 Remote Configuration	21
6.2.1 Basic Information.....	22
6.2.1.1 Basic setting.....	22
6.2.1.2 Video Setting.....	23
6.2.1.3: Remote Recording Plan	24
6.2.1.4 SD card management	25
6.2.1.5 Motion Detection Setting	26
6.2.1.6 Snapshot setting	29
6.2.1.7.Alarmset	30
6.2.1.8 Serial set.....	31
6.2.2 Network set.....	32
6.2.2.1 Network parameters	32
6.2.2.2 PPPOE Setting	34
6.2.2.3 DDNS Setting.....	34
6.2.2.4 Email Set	35
6.2.2.5 FTP Set	36
6.2.3 Milestone Server Set.....	37

6.2.3.1 Milestone Server Set	37
6.2.4 Event Management	38
6.2.5 User Management	38
6.2.6 System Maintenance	38
7. Operation Environment	39
7.1 Operation System	39
7.2 Browser Compatibility	39

Statement

These instructions are for guidance only. Detailed features are in accordance with the product.

The instructions may include some technical inaccuracies or typographical error thought it is prepared with our every effort.

The product or procedures described in the instruction may be changed or updated at any time without advance notice.

Screenshots used in the instruction are only for indications and explanations.

For any doubts or to request documents about latest procedures and complementary notes, please consult with the after-sales service department.

7. Webpage Overview

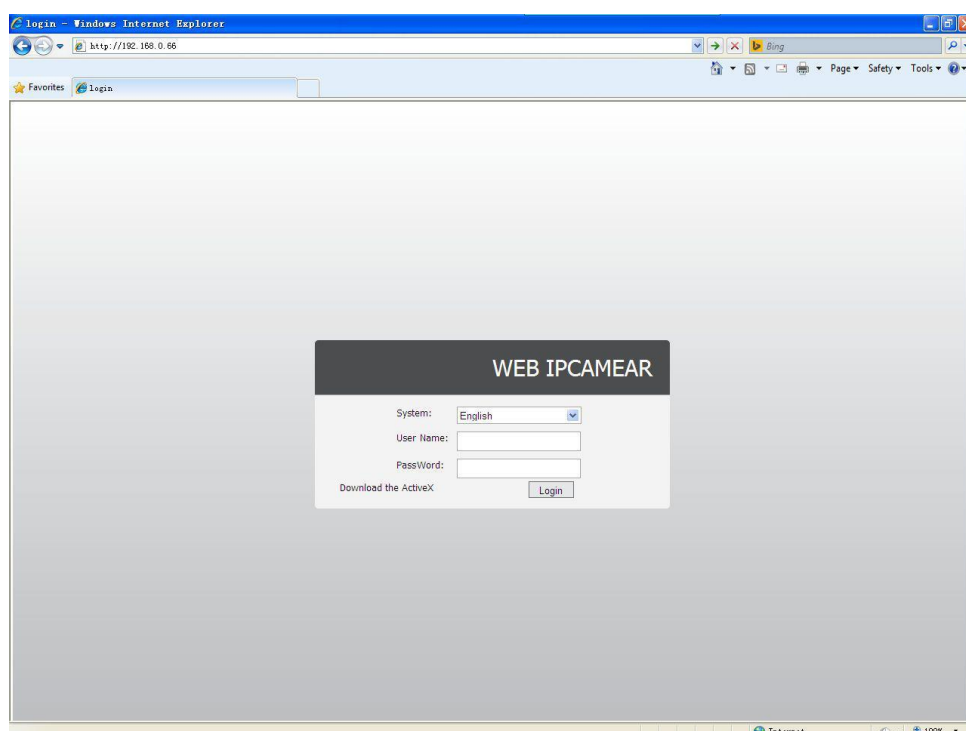
Network camera web page is mainly divided into four parts: preview (picture parameter, adjustment, silk setting), playback (local video playback and remote video playback), checking pictures (scratched picture, motion detection, detector alarming), configuration.

(Note: to enable this feature, verify if your IPC model have checking picture function)

2. Web Log in

Log in “Internet Explorer” (support Internet Explorer 7.0, Internet Explorer 8.0, Internet Explorer 9.0, Internet Explorer 10) and input the **default address http://192.168.0.66** (the default port for this address is 80, if you change the web porta as 81, you should add colon, then port no., for example, http://192.168.0.66:81). As shown on picture: 2-1, you can access the login page of IPC and can switch language. Input the user name and password, then click [Login] button to see the preview page.

Default User Name and Password to login: **User Name: admin; Password: admin**. This is the user name and password for administrator, who has the highest administrative authority, including the authority of setting the user name and password, as well as the administration authority for the regular users and maintenance personnel.

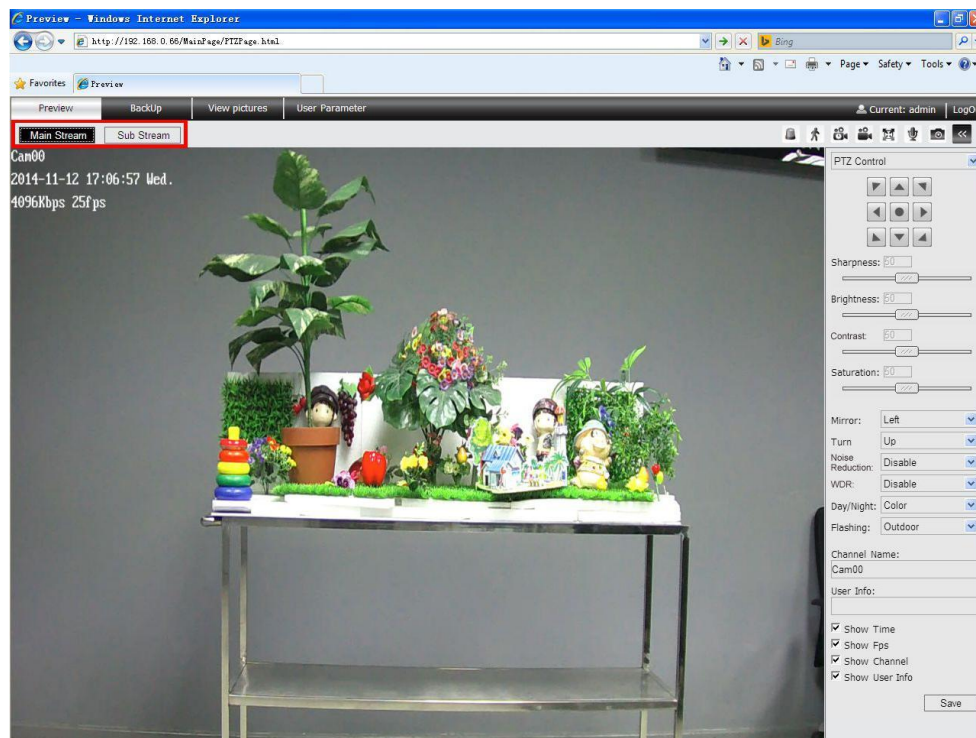


(Picture: 2-1)

3. Preview

3.1 Main stream and Sub-stream Switching

1. Main stream and sub-stream switching. As is shown in picture 3-1 in the red region, click **Main Stream** button to switch into main stream and click **Sub Stream** button to switch into sub-stream.

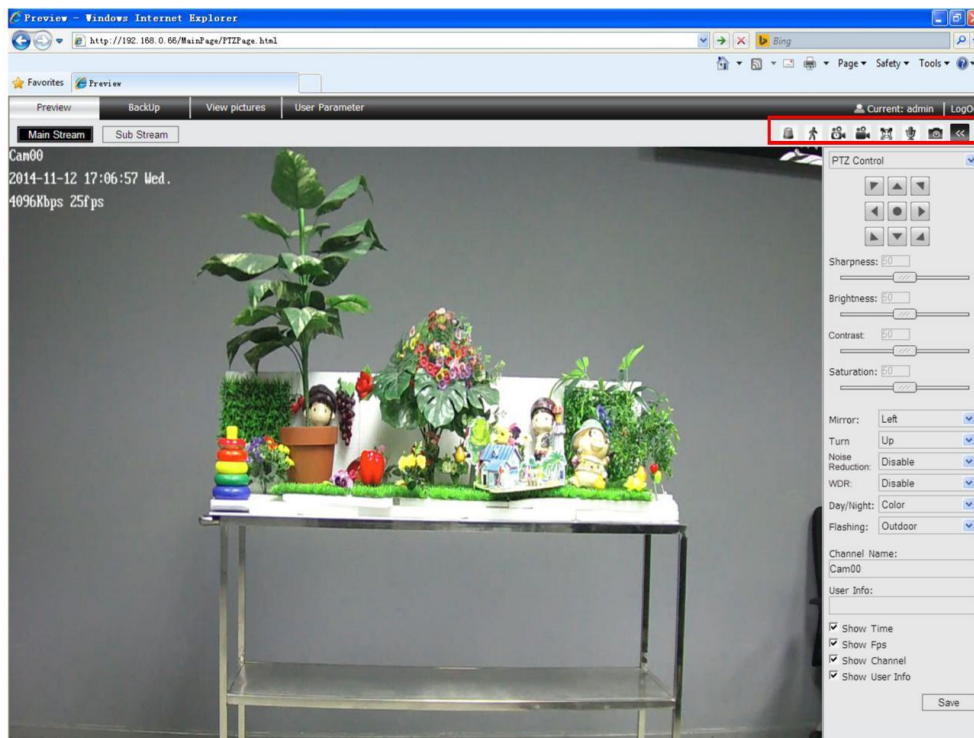


(Picture: 3-1)

3.2 Prompt Alarm

- Prompt alarm. As is shown picture 3-2 in the red region, set the region and time for motion detection as well as the time for detector alarming, prompt alarm will happen in the fitful time after alarming issues are activated. Detector alarming and motion detection have three states for each,  means detector alarming is not set,  means detector alarming has been set.  when this 5 sas5o55 flickering, it means detector alarming is going on;  means motion detection is not set,  means motion detection has been set.  when this button twinkles, it means motion detection is alarming.

(Note: to enable this feature, verify if your IPC model have alarm/motion functions)



(Picture: 3-2)

3.3 Timing Recording

7. Timing recording. As is shown in picture 3-2, set the remote video recording plan in [Configuration] → [Remote Configuration] → [Basic Info].  means remote video is not planned,  means time video recording is going on. (Note: to enable this feature, verify if your IPC model have timing recording function)

3.4 Recording Video Manually

1. Recording Video Manually. As is shown in picture 3-2, click the button  for manual video recording. The button will turn , which means manual video recording is going on, the files for the video will be saved in the saving path. You can set the saving path in [Configuration] → [Local Configuration] → [Saving Path Setting]

3.5 Switching Picture Ratio

1. Switching Picture Ratio. As is shown in picture 3-2, click the button  in red region. The image will switch between two states: ratio and full. Ratio means image will show in ratio of 16:9 or 4:3, full means image will occupy the whole page to satisfy different resolution monitor.

3.6 Audio Function

1. Audio Function. As is shown in picture 3-2,  is the audio button,  means on audio is on.

After clicking audio button, it support talk back, you only need to connect with microphone and loudspeaker for IPC as well as for PC.

(Note: to enable this feature, verify if your IPC model have audio function)

3.7 Snapshot Function

1.Snapshot Function. As is shown in picture 3-2, click the button  for manual snapshot. When you click this button, the current video image will be captured as a picture and will be saved in the saving path. You can set the saving path in [Configuration] → [Local Configuration] → [Path Configuration].

3.8 Showing Sidebar Function

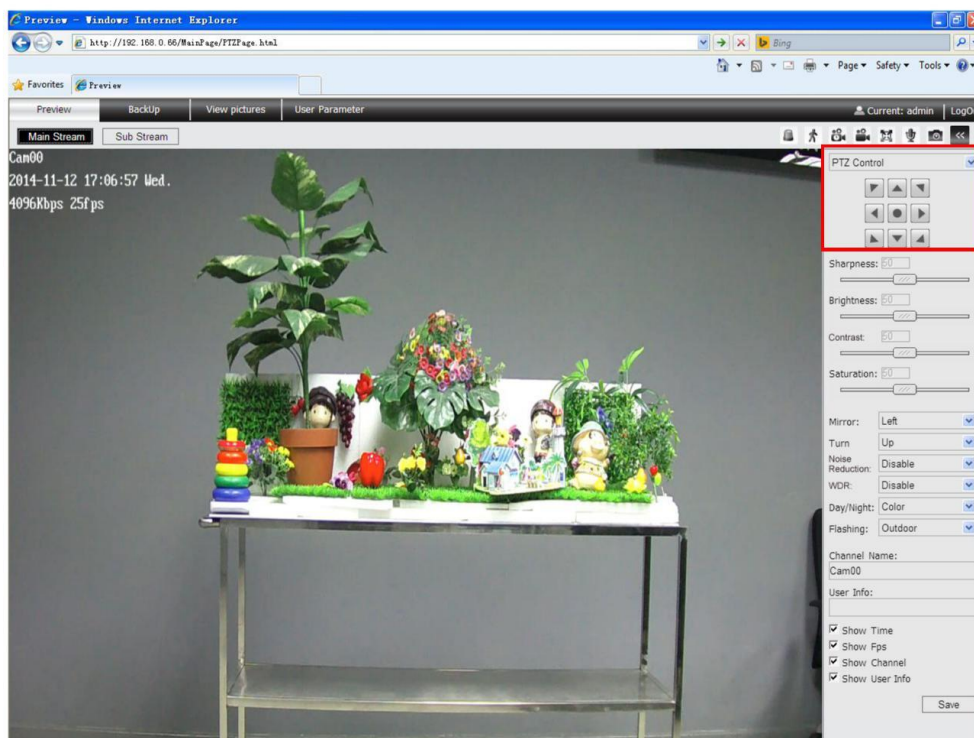
1.Showing sidebar function operation. As is shown in picture 3-2, after clicking the button , to show sidebar, and to hide sidebar after clicking .

3.9 OSD Function

1.OSD Function. See picture 3-3 in the red region for OSD function operation. Click the button , the subtitle will show on video and you can adjust the subtitle.

2.  means up toward and the value on the left side is chosen, but will not change the meaning of right side.  means down toward and the value on the left side is chosen, but will not change the meaning of right side.  means right toward, and will change the value of right side after clicking this button based on the left side value.  means left toward and change the value of right side after clicking this button based on the left side value.  button. When the right side value has “#”, you can click [OK] button into submenu of this value and you can set this value in the submenu.

(Note: PTZ function operation is similar to OSD function operation. To enable this feature, verify if your IPC model have OSD and/or PTZ function)



(Picture: 3-3)

3.10 Image Parameter Adjustment Setting

1. Image parameter adjustment setting, as is shown in picture 3-4, red area.



drag the horizontal sliders below Sharpness, corresponding value will appear in the text box and the video image will change correspondingly.



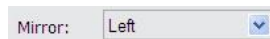
drag the horizontal sliders below Brightness, corresponding value will appear in the text box and the video image will change correspondingly.



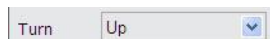
drag the horizontal sliders below Contrast, corresponding value will appear in the text box and the video image will change correspondingly.



drag the horizontal sliders below Saturation, corresponding value will appear in the text box and the video image will change correspondingly.



Mirroring function has left and right option.



Turn function has up and down option.



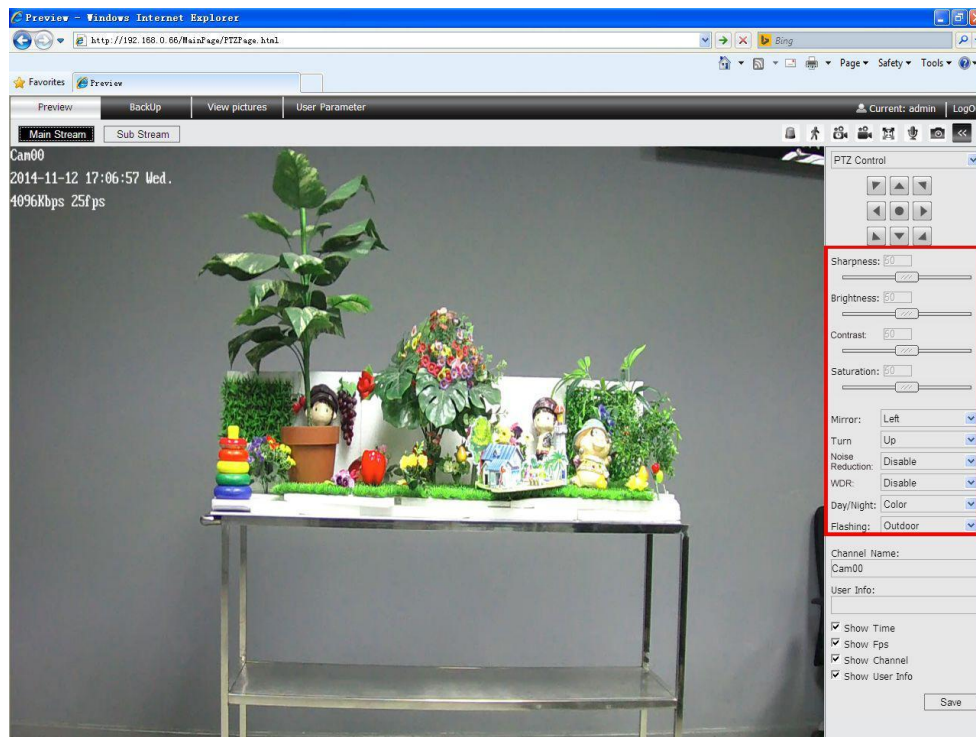
Noise reduction function has disable and able option.



WDR function has disable and able option.

Day/Night: Day/Night function has color, black and white, external synchronization option.

Flashing: Flashing function has outdoor, 50HZ, 60HZ option.
(Note: to enable the features, verify if your IPC model have all the functions)



(Picture: 3-4)

3.11 Watermark Setting

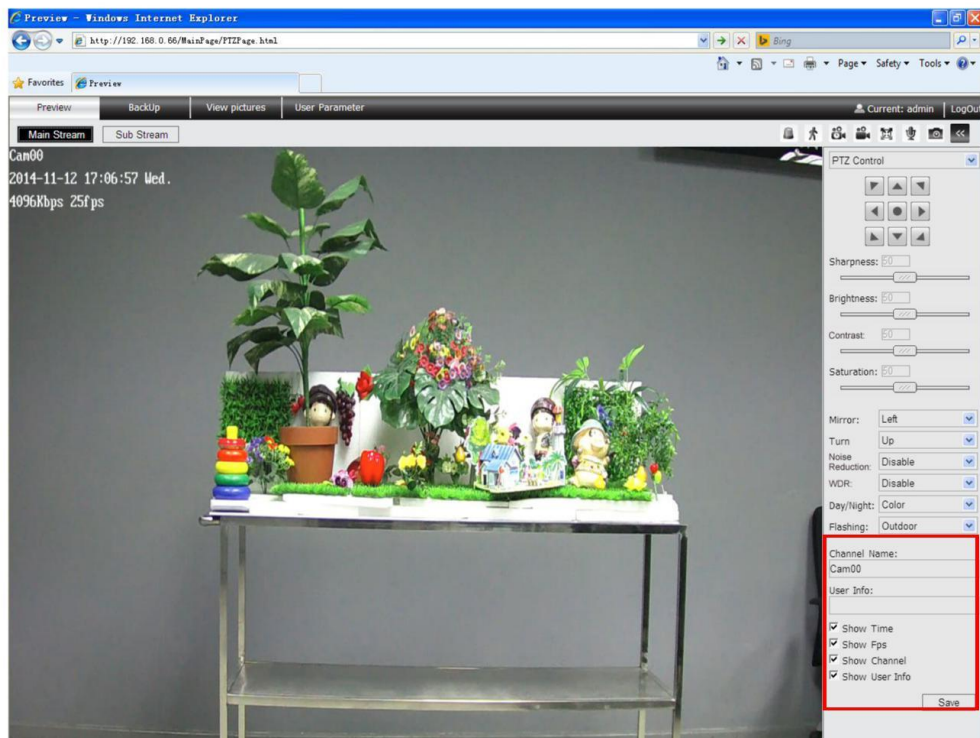
1. Watermark setting as shown in picture 3-5, red area.

Channel Name: channel name can be set.

User Info: User-defined information can be set.

☒ Show Fps
☒ Show Channel
☒ Show User Info

You can display or hide the time, frame rate, channel name, user-defined information. Once check and click [Save] button, the page will be prompted to [Save Success] words, after successfully saved, the video image will display modified channel name, frame rate, channel name, user-defined information.



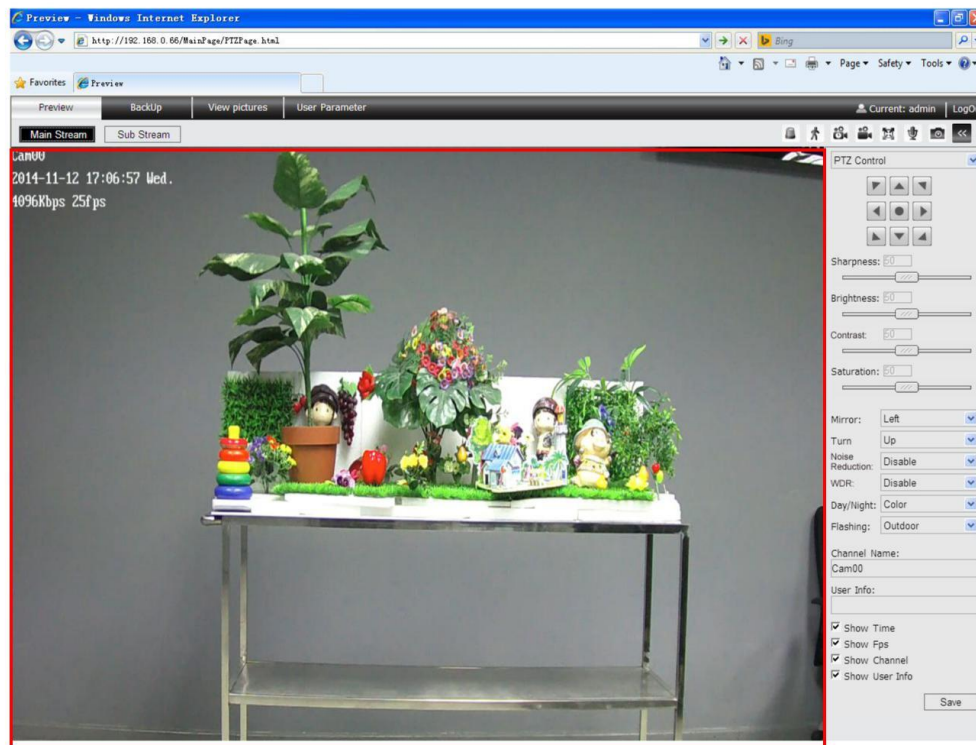
(Picture: 3-5)

3.12 Video Reconnection

7. Video Reconnection: You do not need to refresh the web page because you can re-get the video after network goes back to normal working. Meanwhile when the IPC has an SD card even in network off condition, video will be recorded in the IPC.

3.13 Video Full Screen Display

1. Video Full Screen Display. As shown in picture 3-6, move the mouse cursor to the area where the video image appear, the video will display full screen by double clicking the mouse. You can quit the full screen by again double clicking the mouse or pressing button [Esc].

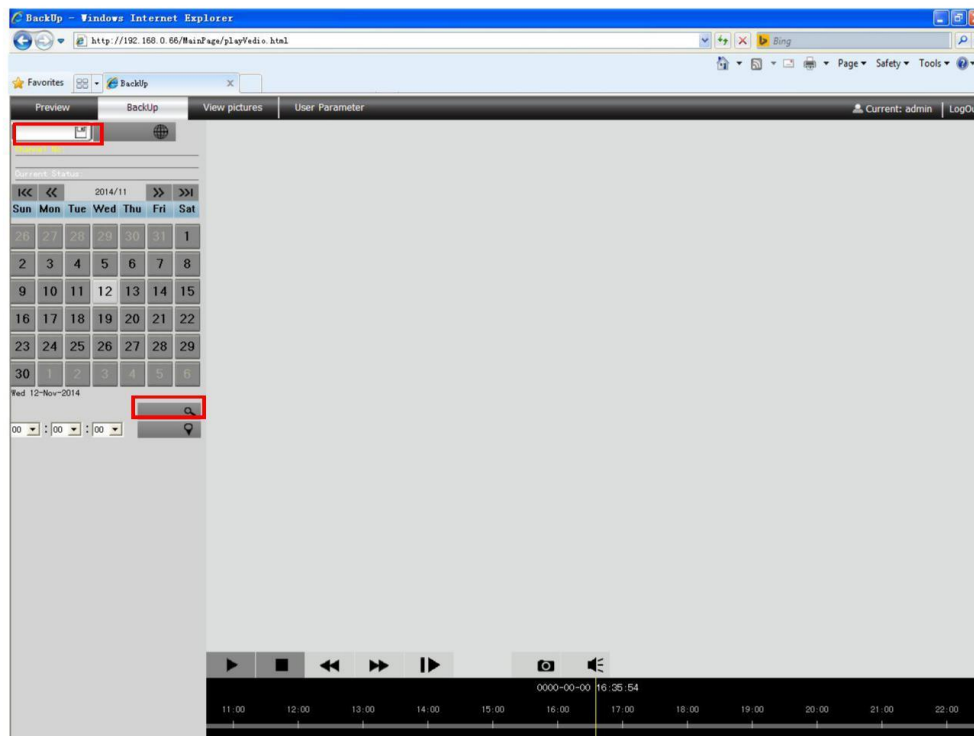


(Picture: 3-6)

4. Video Playback

4.1 Local Video Playback

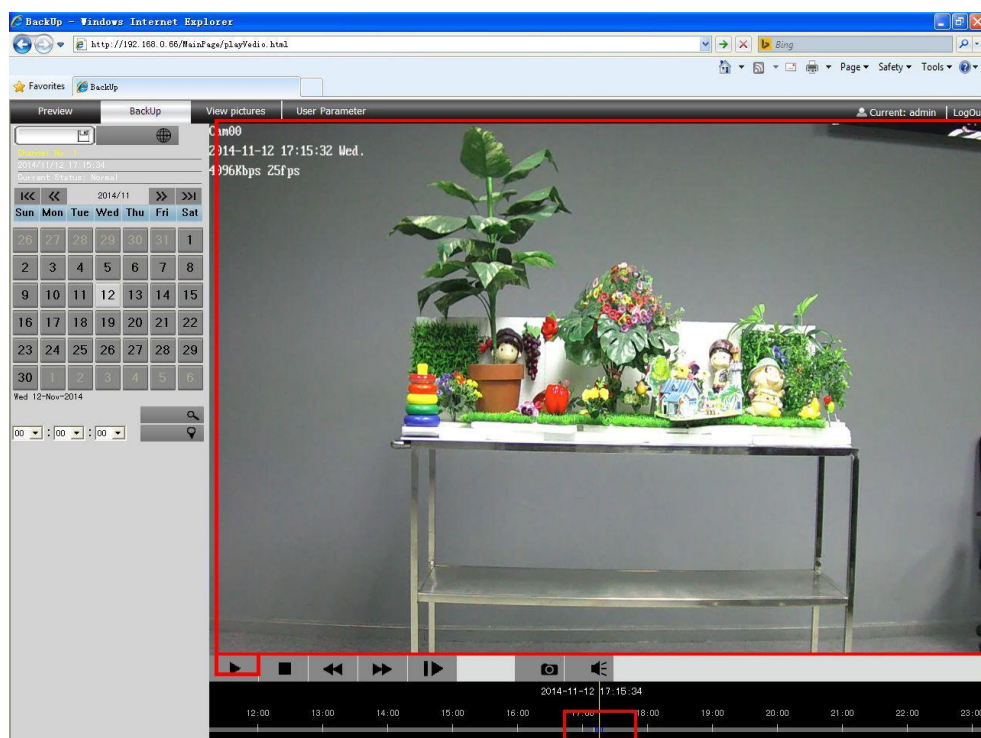
1. Local Video Playback. As shown in picture 4-1, click [Playback] on the navigation bar, to jump to the video [Playback] page. The image in red area indicates the remote local video playback. Yellow font under the red area means channel name and white font means current condition.
2. Check Local Video Files. As shown in picture 4-1, select query [Year] [Month] [Date] in the green area, click [Query] button. This icon  indicates Query button and you will find out video files within your condition. If you select the year, month, date did not meet the conditions of the video file, click [Query] button, to remind you “no record” and [Slow forward], [Fast Forward], [single frame], [Snapshot], [Audio] button turn grey color, because they are unavailable.



(Picture: 4-1)

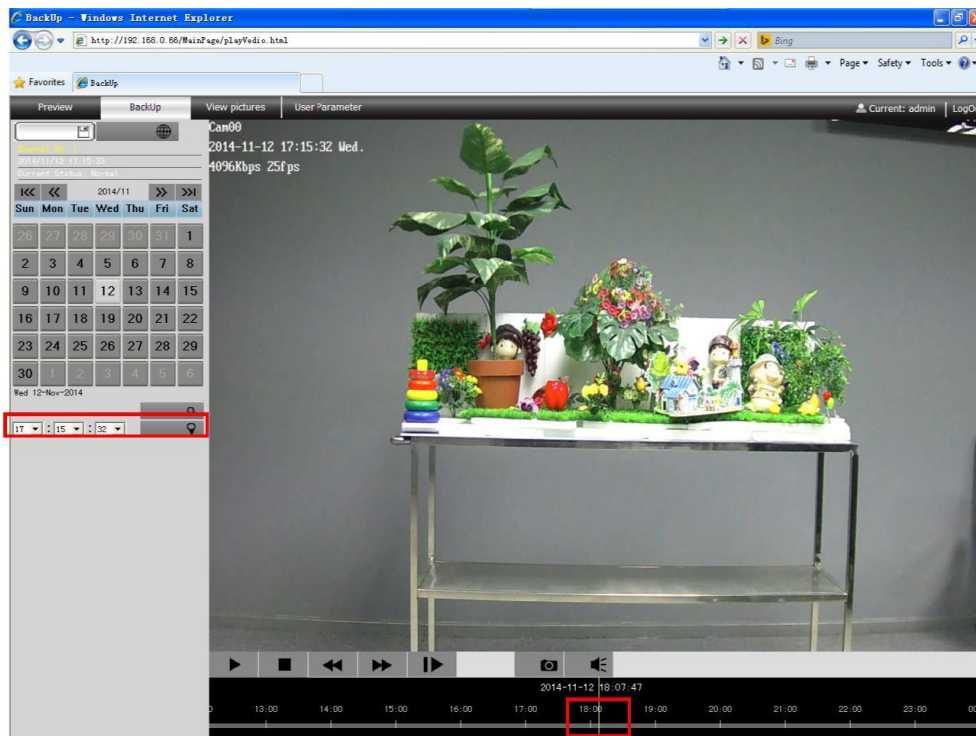
3. Play button . First check the recorded video file. When there is eligible video file, click [Play] button, to jump directly to the starting part of the video file for playing, as shows in picture 4-2. In the meantime, [Slow Forward], [Fast Forward], [Single Frame], [Snapshot], [Audio] button will be settable, at the same time the channel number in yellow font and the current status in white font will also display some information.
4. Pause button . This icon is pause function if the video is already playing. When the mouse points to the icon 12 sas12o display “pause” words and clicking [Pause] button will pause the video being played.
5. Stop button . This icon indicates that the video playback is stopped. When you are playing the video and then you click [Stop] button, there will not be any video display on the progress bar. Meanwhile background will turn grey color and will not play video.
6. Slow Forward button . This icon indicates that the video slow forward. When the process playback video is playing, click on the [Slow Forward] button, to slow down the speed of video playback.
7. Fast Forward button . This icon indicates that the video fast forward, when the process playback video is playing, click on the [Fast Forward] button, to accelerate the speed of video playback.

8. Single Frame Play button . This icon represents a single frame play. If you click a single frame, to click once [Single Frame] button to display a single frame of a picture.
9. Snapshot button . This icon indicates snapshot function. During playback, click this button, to snapshot current playback video image and will be saved in a defined snapshot stock path.
10. Audio button . This icon represents audio. Click [Audio] button during the local video intercom operation, click [Audio] button and the sound turned on, you will hear in the video intercom words.
11. Progress bar . This icon indicates a period on the progress bar. The recording information is displayed on the progress bar according to the conditions of the query. Red means alarm recording, yellow means manual recording, blue means normal recording.



(Picture: 4-2)

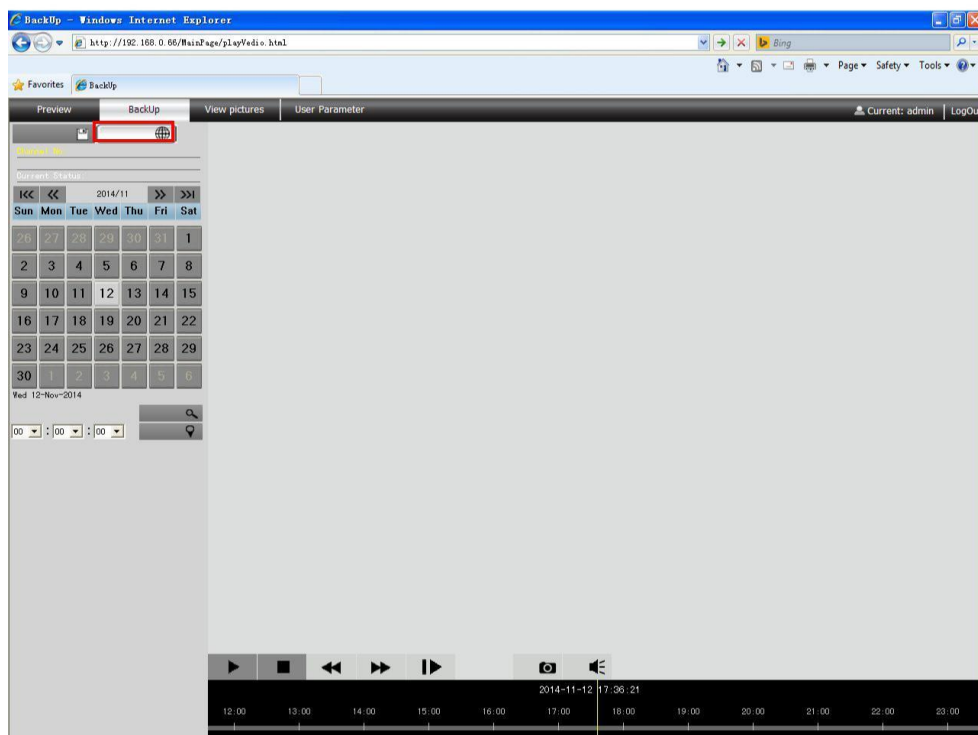
12. Positioning function. As shown in picture 4-3, red area is for positioning function operation.  this icon is the position button in red area. When doing normal video playback, choose your own defined [Hour] [Minute] [Second] and then click [Positioning] button, the system will automatically position to the eligible set time period for playback of the local recording.
(Note: to operate the positioning function you need to have the video for playback)



(Picture: 4-3)

4.2 Remote Recording Playback

1. Remote Recording Playback. As shown in picture 4-4, click [Playback] on the navigation bar, to jump to the video [Playback] page. The image in red area indicates the remote local video playback. Yellow font under the red area means channel name and white font means current condition.
2. Check Remote Video Files. As shown in picture 4-5, select query [Year] [Month] [Date] in the green area. Click [Query] button. The icon  indicates query button, and you will find out video files within your condition. If you select the year, month, date did not meet the conditions of the video file and click [Query] button, to remind you "no record" and [Slow forward], [Fast Forward], [single frame], [Snapshot], [Audio] button turn grey color, because they are unavailable.



(Picture: 4-4)

3. Playback operation. Button  represents play, first check the recording video file, when there is eligible video file, click **【Play】** button, there will be a time buffer. In the meantime, the IPC video file will be downloaded to local, which means in the path set of where the local video files stored. When buffer finished, to jump directly to the location where start playing the video file for playback. In the process of playing, if disk space to store is less than 500MB, remote playback page will direct prompt words "disk space full". In the process of playing video [Slow Motion], [Forward], [Single Frame], [Snap], [Audio] button will be settable, like picture 3-1-2 shows. At the same time the channel number in yellow font and the current status in white font will also display some information.

4. Pause function.  also represents pause. If already plays video, when mouse pointing, this icon will appear "pause" words. Click  button, to pause the video being played.

5. Stop Function. Click  for stop playing, during the process of playing a video. Click [Stop] button, the display area on progress bar will not have a video image for display, to display gray background color, will not play video. Then click [Play] button, to continue video play.

6. Slow Forward function.  represents video slow motion. During playing video process, click [Slow motion] button, to slow down video playing speed.

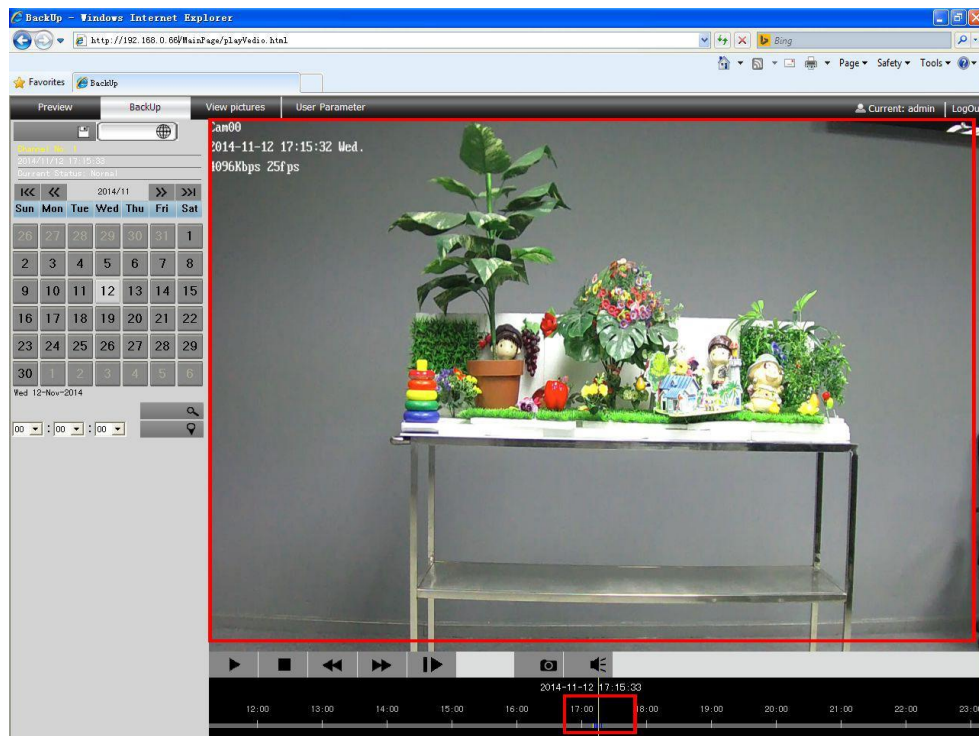
7. Forward function.  represents video fast forward. During playing video process, click [Forward] button, to accelerate the speed of video playback.

8. Single frame play function.  represents single frame play. If click single frame, to appear picture with each frame.

9. Snapshot function.  represents snapshot. Click [Snapshot] button, will snapshot the video picture, stored in the capture setting path.

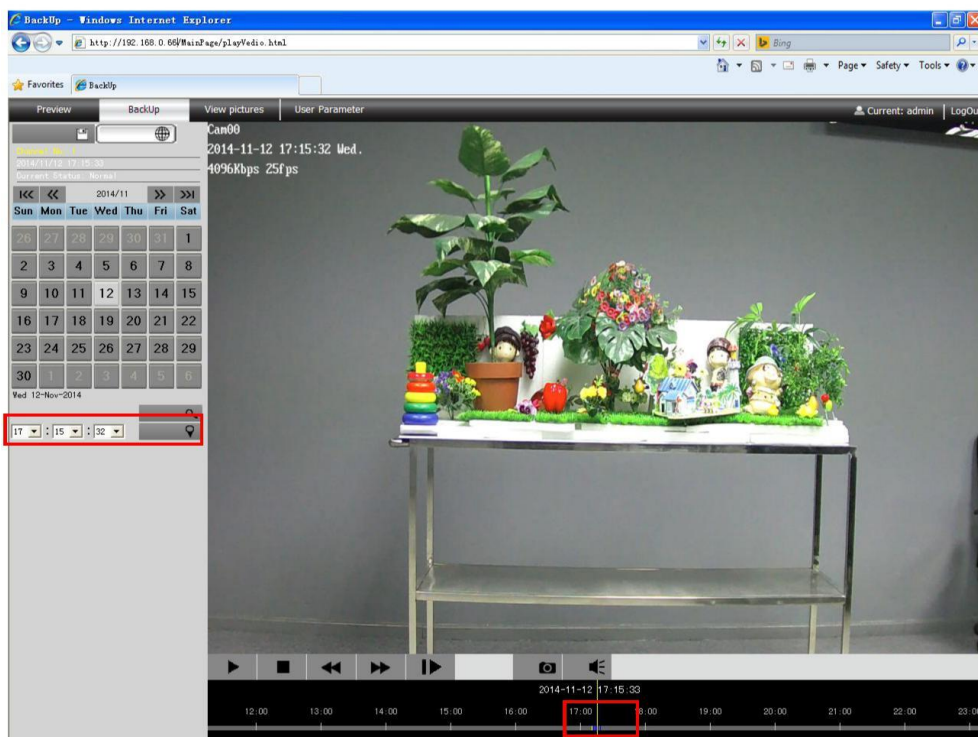
10. The audio function.  represents sound. Click [Audio] button during the process. If there was a local video intercom operation, click [Audio] button You will hear the voice in the video

11. Progress bar function. For example  this icon indicates a period on the progress bar. The recording information is displayed on the progress bar according to the conditions of the query. Red means alarm recording, yellow means manual recording, blue means timer recording.



(Picture: 4-5)

12. Positioning function. As shown in picture 4-6, the red area indicates the operating area.  is the position button. When doing normal video playback, choose your own defined [Hour], [Minute], [Second] and then click [Positioning] button, the system will automatically position to the eligible set time period for playback of the local recording. (Note: to operate the positioning function, first of all you need to have the video for playback.)



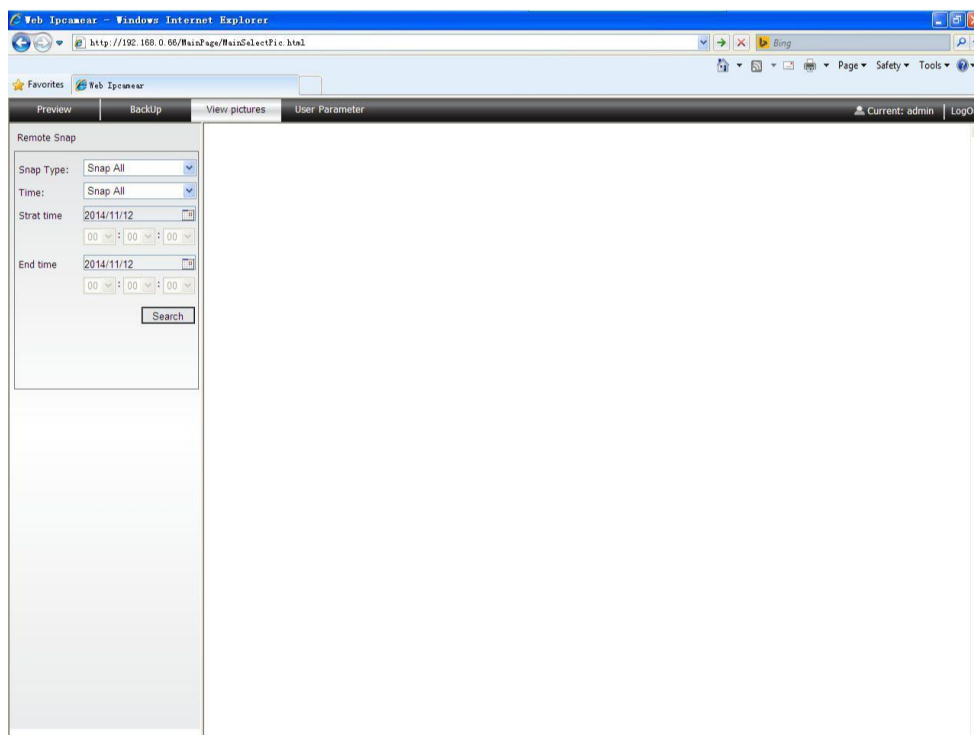
(Picture: 4-6)

(Note: to enable this feature, verify if your IPC model have the playback functions)

5. Checking Pictures

5.1. Checking Pictures

1. Picture snapshot query. As shown in picture 5-1, query according to the setting conditions, to demonstrate pictures in compliance with the conditions of the query on the right.



(Picture: 5-1)

2.Remote snapshot query – snapshot type. [Snapshot type] is divided into: All, Timing snapshot, detection snapshot, detector snapshot. When [Snapshot type] is All, click [Query] button, on the right list will show all the snapshot pictures. When [Snapshot type] is Timing snapshot, on the right list will show all the timing set snapshot pictures. When [Snapshot type] is Timing snapshot, [Query type] choose according to time span. Setting start time and end time, click [Query] button, on the right list will show snapshot pictures in the setting time period.

3. Snapshot search – Query type. [Query type] is divided into: Query according to All time or time period. When [Query type] is All time, the start time (hours, minutes, seconds) and end time (hours, minutes, seconds), the status will not be editable. Click [Query] button, to display all snapshot pictures in the memory card. When [Query type] is time period, the start time, minutes, seconds and end time, minutes and seconds will be set off and change into editable status. Select the start time (hours, minutes, and seconds) and end time (hours, minutes, and seconds). Click [Query] button, the eligible snapped pictures will be displayed in the list on the right.

4. Delete. Choose the data according to the list, click [Delete] button, will delete the data which are chosen.

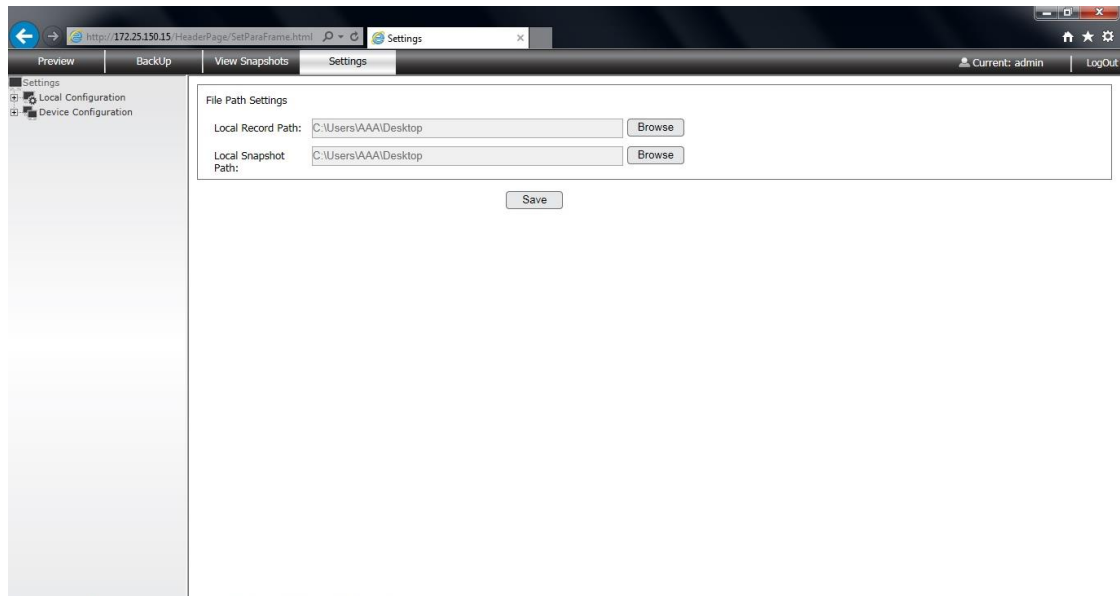
5. All delete. Click [All delete] button, will delete all the snapshot pictures.

6. Query snapshot pictures. On the right list choose picture you want to check, click left button on the mouse will pop up a new page, then shows the picture chosen.

(Note: to enable this feature, verify if your IPC model have the function)

6.Setting

Parameter configuration, as picture 6-1 show, is divided into local parameter and Remote control parameter.



(Picture:6-1)

6.1. Local parameter

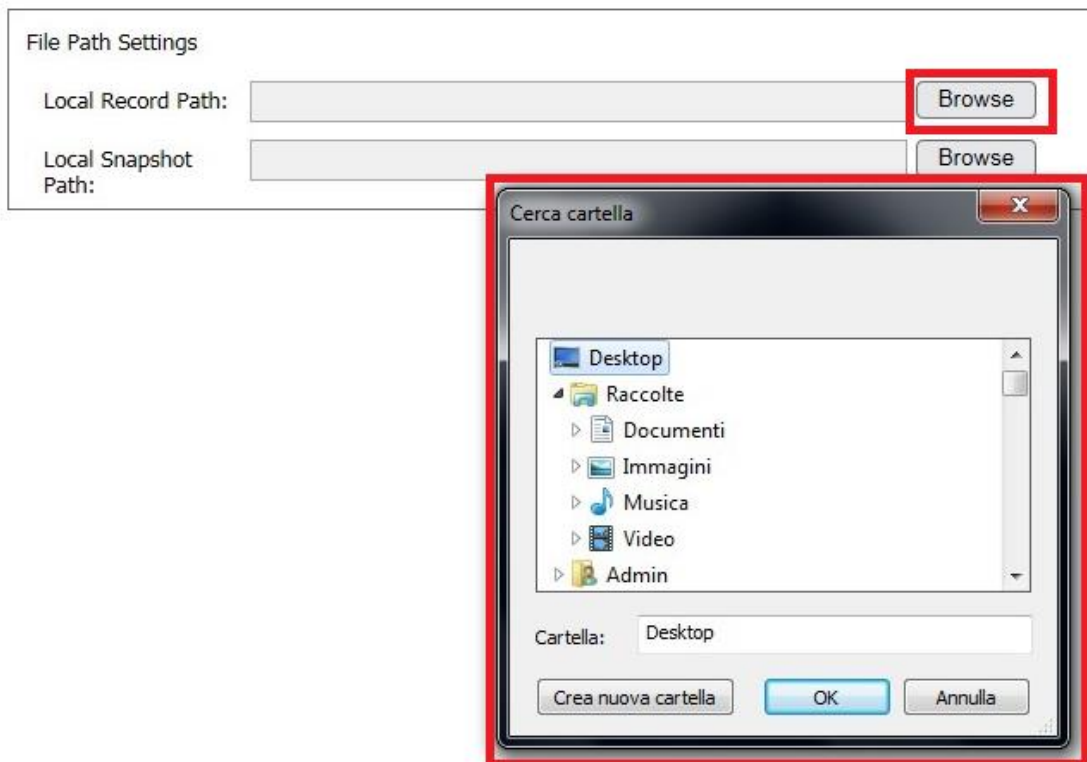
6.1.1. Path configuration

Path configuration, as picture 6-1-1 shows, set recording file save path and preview snapshot save path.

File Path Settings	
Local Record Path:	C:\Users\AAA\Desktop Browse
Local Snapshot Path:	C:\Users\AAA\Desktop Browse
Save	

(Picture: 6-1-1)

1. When setting record file save path, click [Browse] button, to pop up choosing file save path message, as picture 6-1-2, choose the save path and folder to save file, click [OK] button, the page will show settled video file path, click [Save] button. When local recording, video files will be stored in the settled video file path.

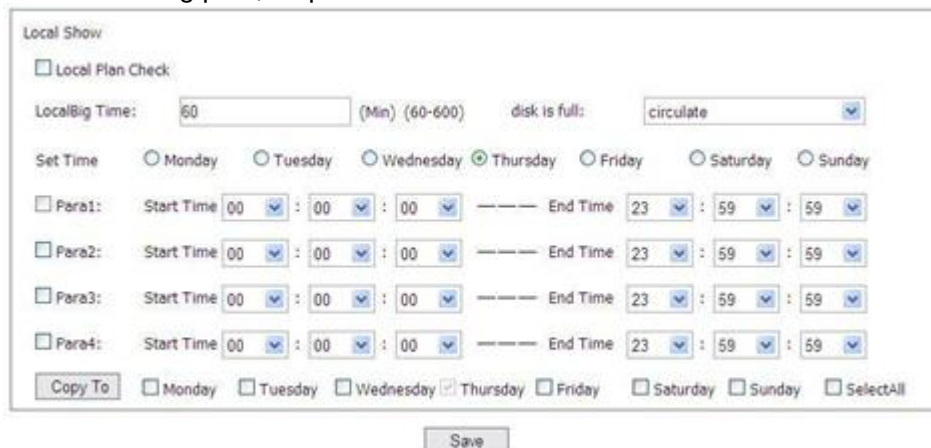


(Picture: 6-1-2)

2. When setting the preview snapshot save path, click [Preview] button, will pop up page like picture 6-1-2, choose the save path, click [OK] button, the page will show the settled down save path, click [Save] button. When local capturing, to store captured pictures in the settings path.

6.1.2. Local recording plan

Local recording plan, as picture 6-1-3 shows.



(Picture: 6-1-3)

1. Select "Local Plan Check", system will start recording according to the setup information, the local recording file will be saved in the identified file stock area of [local parameter].
2. Set up the maximum record time, this function allows system to separate recording file according to the maximum time setting for record. For example, if user set the maximum record time at 60 min, each recording file stocked in local will be 60 min.

3. When system recognizes the recording disk is full, system will display “cycling coverage” and “stop recording” for user selection.

3.1. Cycling coverage. When the setting disk is full (less than 500MB), to delete the local recording file on the same camera the day before.

3.2. Stop recording. When setting disk space is full, if set stop recording, then will stop local recording.

4. Set record time. Choose one day from Monday to Sunday or check time setting in one day from Monday to Sunday.

5. Time period. Divide into 4 time period: Start time, hour, minute, second and end time, hour, minute, second (example: choose single box of Monday, select para 1, set start time: hour: 00, minute: 00, second: 00, end time: hour: 08, minute: 00, second: 00, click [Save] button, then the first time span of Monday have been settled. Then choose para 2 of Monday, choose single box of Monday, set start time: hour: 08, minute: 00, second: 00, end time: hour: 12, minute: 00, second: 00, click [Save] button, this is setting the second time span of Monday. Then choose para 3 of Monday, choose single box of Monday, set start time: hour: 12, minute: 00, second: 00, end time: hour: 18, minute: 00, second: 00, click [Save] button, this is setting the third time span of Monday. Then choose para 4 of Monday, choose single box of Monday, set start time: hour: 18, minute: 00, second: 00, end time: hour: 23, minute: 59, second: 59, click [Save] button, this is setting the fourth time span of Monday. Then turn to preview page, when the setting time is ok to start local recording, the recording file is in the settled save path in local parameter, other day setting is same as Monday)

7. Copy to. Choose from Tuesday to Sunday, then click “copy to”, to copy the time setting of Monday from Tuesday to Sunday. If select all, to choose from Tuesday to Sunday (example: choose Monday, then choose para1, select time: hour: 08, minute: 00, second: 00 and end time: hour: 22, minute: 00, second: 00, then click from Tuesday to Sunday or select all. Click [Copy to] button, copy the time setting in Monday from Tuesday to Sunday, as picture 6-1-4)

(Picture: 6-1-4)

6.2 Remote Configuration

1. Remote Configuration: remote configuration includes basic setting, network parameter, alarm server setting, issues management, user arrangement, system maintenance.

6.2.1 Basic Information

6.2.1.1 Basic setting

Basic setting, as shown in picture 6-2-1-1, includes Time Zone, Set Time, Enable NTP or not, NTP Server, Pan address, Device ID, Enable UPNP or not, PC Time Syn, OCX Version, IPC Version, IE Version.

The screenshot shows a web interface titled 'Basic setting'. It contains the following fields and values:

- Time Zone: East8
- Set Time: H: 08, M: 50, S: 36, Date: 2014/11/13
- Is EnableNTP: Enable
- NTP Server: time.nist.gov
- Pan Address: 1 (Get Value: 0-255)
- Device ID: 2014082100000003378
- Isenable UPNP: Disable
- PC Time Syn: NO
- OCX Version: v1.0.1.11
- IPcme Version: 04-00-00-0c
- IE Version: 00-00-00-05

A 'Save' button is located at the bottom right of the form.

(Picture: 6-2-1-1)

1. Time Zone. When select different time zone, the time will change correspondingly.
2. Set Time. When you choose yes for computer time synchronization, you cannot revise the time. When you choose not for computer time synchronization, you can revise the time of the device. Click [Save] button, the device will not restart and you can enter into the Preview interface to check the revised value at the left upper corner of the picture.
3. Enable NTP or not. Enable or Disable
4. NTP Sever. You can input the NTP Server address manually.
5. Pan address. The text-box is editable, and the value range is 0-255.
6. Device ID. It shows the serial number of the device
7. Enable UPNP or not. Enable or Disable
8. PC Time Syn. When log in with the Web interface, to be PC Time Syn automatically.
9. OCX Version. It shows the OCX version and it cannot be revised.
10. IPC Version. It shows the serial number of the main program and it cannot be revised.
11. IE Version. It shows the serial number of the web page and it cannot be revised.

6.2.1.2 Video Setting

Video setting, as shown in picture 6-2-1-2, includes System (Pal, NTSC), Stream Type (Mainstream, Sub-stream), flips, Compression type (H.264), Mode (constant, changeable), Resolution (QCIF, CIF, D1, 720P, 1080P, 1600X1200, 2048X1536), video quality, Stream, I frame interval.

The screenshot shows a 'Video Set' configuration window with two columns of settings. The left column is for the 'Main' stream and the right column is for the 'Sub' stream. Both columns have identical settings: Standard: PAL, Stream Type: Main/Sub, fps: 25, Re Type: H.264, Mode: Change, Resolution: 1920*1080(1080P)/720*480(D1), Video quality: Best, Stream: 4096/1024 (KBit), and I frame interval: 25 (FPS). A 'Save' button is located at the bottom center.

(Picture: 6-2-1-2)

1. Standard. Standard can divide into NTSC and PAL. When choosing NTSC, click [Save] button, the page will jump to the countdown for equipment to restart. After completed, to jump to the preview page and to display 30 FPS on the video preview page. If choosing PAL, click [Save] button, the page will jump to the countdown for equipment to restart. After completed, to jump to the preview page and to display 30 FPS on the video preview page.
2. Stream Type. It includes main stream and sub stream. When setting the code pattern, resolution, image quality, the size of the stream, and the I frame interval of main stream, click [Save] button, the page will jump to the countdown to restart equipment. After the restart completed, to display the corresponding modified value of the main stream at video settings page (note: when the modification of main stream and sub stream value finishes, if you select needed code type at the [**Main Stream** **Sub Stream**], to display the revised video output pattern.)
3. Frame rate. PAL (1-25fps) NTSC (1-30fps) adjustable.
4. Compression type. H.264.
5. Stream mode. User can select constant bit rate or changeable bit rate.
6. Video Storage. It includes QCIF, CIF, D1, 720P, 1080P, 1600X1200, 2048X1536
7. Image quality. User can freely choose in drop-down box.
8. Stream. User can freely change in the text-box.
9. I frame interval: User can freely change in the Text-box.

6.2.1.3: Remote Recording Plan

Remote recording, as shown in picture 6-2-1-3

(Picture: 6-2-1-3)

1. Remote Enable. Click the check box, then the recording plan will be remotely controlled. The recorded file will be stored in SD card, and user can play back these files in play-back windows.
2. Sets the maximum length of video files, the video file will be separated according to the set of video length. If the maximum length for video files is 60 minutes, then each local video file length will be 60 minutes.
3. Setup time. Monday to Sunday can be selected, you can also view the time setting of one day from Monday to Sunday.
4. Set record time period: divided into 4 time period: Start time (hour, minute, second) and end time (hour, minute, second) (example: click the radio button before Monday, then select the value of section 1. Setting the start time at 00: 00: 00, end time at 08: 00: 00, click [Save] button, and this is the setting of the first recording time period. Then select the value of section 2 of Monday: setting the start time at 08: 00: 00, end time at 12: 00: 00, click [Save] button, and this is the setting of the second recording time period. Then select the value of section 3 of Monday: setting the start time at 12: 00: 00, end time at 18: 00: 00, click [Save] button, and this is the setting of the third recording time period. Then select the value of section 4 of Monday: setting the start time at 18: 00: 00, end time at 23: 59: 59, click [Save] button, and this is the setting of the forth recording time period. When the device is accord with the recording to perform front-end recording and the recording file will be stored in the SD card. User can check them at the IPC setting in the Playback page)

5.Copy to. Click the check box from Tuesday to Sunday, then click “Copy to”, to copy the setting of Monday to Tuesday to Sunday. When click select all, to select Tuesday to Sunday automatically (example: first select Monday. Then select Para 1, choose the values, the starting time and the end time, then select Tuesday to Sunday or select all. Click “Copy to” button, to copy the time setting of Monday to Tuesday to Sunday, as shown in picture 6-2-1-4)

The screenshot shows the 'Remote video plan' configuration window. It includes a 'Remote Enable' checkbox (checked), a 'Remote File Time' field set to 60 minutes, and a 'Set Time' section with radio buttons for days of the week. Thursday is selected. Below this, there are four parameter rows (Para1 to Para4) with start and end time pickers. Para1 is active, showing a start time of 00:00:00 and an end time of 22:00:00. At the bottom, there is a 'Copy to' button and a row of checkboxes for days of the week (Monday to Sunday) and a 'SelectAll' checkbox. A 'Save' button is located at the bottom center.

(Picture: 6-2-1-4)

(Note: to enable this feature, verify if your IPC model have the function)

6.2.1.4 SD card management

SD card management, as shown in picture 6-2-1-5

The screenshot shows the 'SD Manag' configuration window. It includes checkboxes for 'Break Redord' and 'Network resume'. There are three input fields: 'SD card Count', 'SD Variable', and 'SD Not Variable'. Below these are 'SD Select' and 'SD Format' buttons. At the bottom, there is an 'SD Full' dropdown menu set to 'Stop' and a text label 'SD card full,Select loop coverage and stop'. A 'Save' button is located at the bottom center.

(Picture: 6-2-1-5)

1. Dropped Networking recording automatically and uploading continually: default selected and cannot be modified.
2. Check the SD card. “ Check the SD card ”, to show the SD card remaining memory condition. As shown in picture 6-2-1-6, the total capacity is 8GB, the used capacity is 718.8MB and the remaining usable capacity is 6.7G.

The screenshot shows the 'SD Manag' window. It has two checked checkboxes: 'Break Redord' and 'Network resume'. Below these are three input fields: 'SD card Count' with the value '7.4(G)', 'SD Variable' with '710 B(M)', and 'SD Not Variable' with '6.7(G)'. There are two buttons, 'SD Select' and 'SD Format', positioned below the input fields. At the bottom, there is a dropdown menu for 'SD Full:' set to 'Stop', a small blue icon, and the text 'SD card full,Select loop coverage and stop'. A 'Save' button is located at the very bottom of the window.

(Picture: 6-2-1-6)

3.Format SD card. All contents will be deleted. Click “Format SD card”, then click “check SD card” like picture 6-2-1-7 shows, the use of the SD card is OK, which means the SD card is formatted.

This screenshot is similar to the previous one but with updated values in the input fields: 'SD card Count' is '7.4(G)', 'SD Variable' is '4.0(K)', and 'SD Not Variable' is '7.4(G)'. The 'SD Select' and 'SD Format' buttons are still present. The 'SD Full:' dropdown is still set to 'Stop', and the 'Save' button is at the bottom.

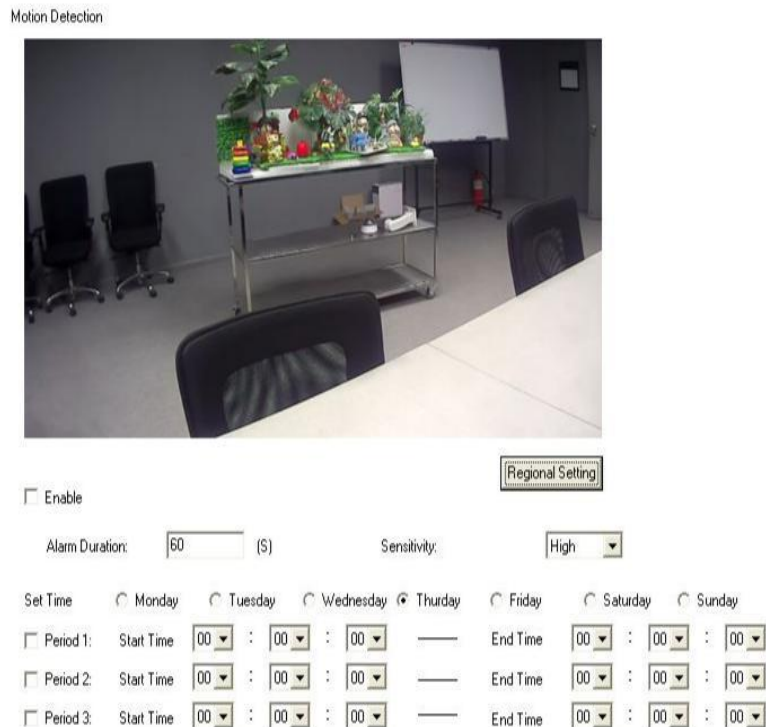
(Picture: 6-2-1-7)

4.SD Card full. User can choose stop recording or loop recording. When SD card is full, if choose Stop and click “Save”, to stop IPC recording and snapshot; if choose Loop recording and click “Save” button, the new IPC recording file will cover the earliest recording file.

(Note: to enable this feature, verify if your IPC model have the function)

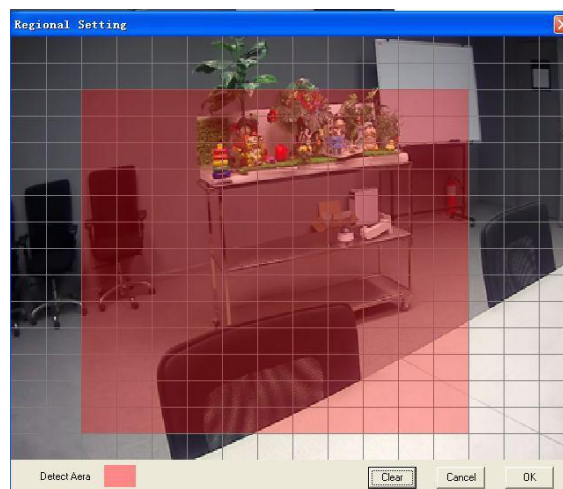
6.2.1.5 Motion Detection Setting

Motion detection setting, as shown in picture 6-2-1-8



(Picture: 6-2-1-8)

1. Setting area. As shown in Pic 6-2-1-9, user can make motion detection for a certain region.



(Picture: 6-2-1-9)

2. Enable Motion Detection. Click the check box before the “Enable Detection”, to perform motion detection according to set information.

3. Alarm duration. It indicates the lasting time of the alarm for motion detection

4. Detection sensitivity. There are low, middle, high for option

5. Setting time. Any day from Monday to Sunday can be selected, you can also view the time setting of one day from Monday to Sunday.

6. Set time period. Divided into 4 time period: Start time (hour, minute. Second) and end time (hour, minute, second) (example: click the radio button before Monday, then select the value of section 1: setting the start time at 00: 00: 00, end time at 08: 00: 00,

click "save" button, and this is the setting of the first recording time period. Then select the value of section 2 of Monday: setting the start time at 08: 00: 00, end time at 12: 00: 00, click "save" button, and this is the setting of the second recording time period. Then select the value of section 3 of Monday: setting the start time at 12: 00: 00, end time at 18: 00: 00, click "save" button, and this is the setting of the third recording time period. Then select the value of section 4 of Monday: setting the start time at 18: 00: 00, end time at 23: 59: 59, click "save" button, and this is the setting of the forth recording time period. When the set time period trigger the motion detecting events, to perform motion detection alarm, at the same time, to also perform the front-end recording. And the motion detecting video files will be stored in SD card. User can check the motion detection file at the front-end playback in the playback page, at the same time when trigger alarm, to send mail and upload the snapshot image to the FTP.)

7. Copy to. Click the check box from Tuesday to Sunday, then click "Copy to", to copy the setting of Monday to Tuesday to Sunday. When click select all, to select Tuesday to Sunday automatically (example: first select Monday. Then select Para 1, choose the values, the starting time (08:00:00) and the end time (22:00:00), then select Tuesday to Sunday or select all. Click "Copy to" button, to copy the time setting of Monday to Tuesday to Sunday, as shown in picture 6-2-1-10)

Motion Detection



☒ Enable Regional Setting

Alarm Duration: (S) Sensitivity: Medium

Set Time: ☒ Monday ☐ Tuesday ☐ Wednesday ☐ Thursday ☐ Friday ☐ Saturday ☐ Sunday

Period	Start Time	End Time
☒ Period 1:	00 : 00 : 00	22 : 00 : 00
☐ Period 2:	00 : 00 : 00	00 : 00 : 00
☐ Period 3:	00 : 00 : 00	00 : 00 : 00
☐ Period 4:	00 : 00 : 00	00 : 00 : 00

Copy ☒ Monday ☒ Tuesday ☒ Wednesday ☒ Thursday ☒ Friday ☒ Saturday ☒ Sunday ☒ Select All

Save

(Picture: 6-2-1-10)

6.2.1.6 Snapshot setting

Snapshot setting, as picture 6-2-1-11

The screenshot shows the 'Snap Set' configuration interface. At the top, there is a 'Snap Enable' checkbox. Below it is the 'Snapinterval' field, currently set to 60, with a note '(Get Value: :1-600)'. A row of radio buttons allows selecting a day of the week from Monday to Sunday. The main section contains four parameter rows, each with a checkbox, a 'Start Time' field (HH:MM:SS), and an 'End Time' field (HH:MM:SS). The bottom of the window features a 'Copy' button, checkboxes for each day of the week, and a 'Select All' checkbox. A 'Save' button is located at the very bottom center.

(Picture: 6-2-1-11)

- 1.Enable Snapshot. Select snapshot enable/disable on the top of the screen, camera will snapshots according to snapshot setting.
- 2.Snapinterval setting. When finish snapinterval set, press [Save] button, camera will snapshots according to the snapping interval setting (example:set up start time as 08:00:00, end time as 22:00:00, camera will snapshots the first image from 08:00:00, then snapshots the next image after 60 seconds)
3. Set time. Freely select anyday from Monday to Sunday, freely check the time setting of any day from Monday to Sunday.
4. Para. Divide into 4 para in total. Start time, hour, minute, second and end time, hour, minute, second (example: select Monday and para 1, set the start time as: 00 hour 00 min 00 sec, end time as 08 hour 00 min 00 sec, press [Save] button, the snapshot setting for para 1 of Monday is done. Then Select Monday and para 2, set start time as 08 hour 00 min 00 sec, end time as 12 hour 00 min 00 sec, press [Save] button, the snapshot setting for para 2 of Monday is done. Then Select Monday and para 3, set start time as 12 hour 00 min 00 sec, end time as 18 hour 00 min 00 sec, press [Save] button, the snapshot setting for para 4 of Monday is done. Finally Select Monday and para 4, set start time as 18 hour 00 min 00 sec, end time as 23 hour 59 min 59 sec, press [Save] button, the snapshot setting for para 4 of Mondy is done. Snapshots will save in SD card.)
- 5.Copy. Select Tuesday to Sunday, then press [Copy], all setting of Monday will copy to Tuesday to Sunday, when select all day system will automatically select Tuesday to Sunday (example: select Monday first, then select para 1, set start time as 08:00:00 and end time as 12:00:00, then select Tuesday or select all, then press [Copy], all setting of Monday will copy to Tuesday to Sunday, as picture 6-2-1-12)

(Note: to enable this feature, verify if your IPC model have the function)

(Picture: 6-2-1-12)

6.2.1.7.Alarmset

Alarm input setting, as picture 6-2-1-13)

(Picture: 6-2-1-13)

- 1.Enable Alarm. Select “Enable”, when activate detector alarm, preview screen will shows the front-end alarm information.
- 2.Alarm output. When selected, output notification will be sent when alarm happens.
- 3.Record output. When selected, system starts record when alarm happens.
- 4.Alarm time. Set the duration in bar 5.Detector type. Open or close is selectable
- 6.Set time. Freely select any day from Monday to Sunday, freely check the time setting of any day of Monday to Sunday.
- 7.Para. Divide into 4 para in total. Start time, hour, minute, second and end time, hour, minute, second (example: select Monday and para 1, set the start time as: 00 hour 00 min 00 sec, end time as 08 hour 00 min 00 sec, press [Save] button, the alarm setting for para 1 of Monday is done. Then Select Monday and para 2, set start time as 08 hour 00 min 00 sec, end time as 12 hour 00 min 00 sec, press [Save] button, the alarm setting for para 2 of Monday is done. Then Select Monday and para 3, set start time as 12 hour 00

min 00 sec, end time as 18 hour 00 min 00 sec, press [Save] button, the alarm setting for para 4 of Monday is done. Finally Select Monday and para 4, set start time as 18 hour 00 min 00 sec, end time as 23 hour 59 min 59 sec, press [save] button, the alarm setting for para 4 of Monday is done. When alarm happens in the defined time para, system will start alarm)

8.Copy. Select Tuesday to Sunday, then press [Copy], all setting of Monday will copy to Tuesday to Sunday, when select all day system will automatically select Tuesday to Sunday (example: select Monday first, then select para 1, set start time as 08:00:00 and end time as 12:00:00, then select Tuesday or select all, then press "copy", all setting of Monday will copy to Tuesday to Sunday, as picture 6-2-1-14)

(Picture: 6-2-1-14)

(Note: to enable this feature, verify if your IPC model have the function)

6.2.1.8 Serial set

Serial set, as picture 6-2-1-15)

(Picture: 6-2-1-15)

1. Serial type: RS485 or RS232
2. Baud rate: 2400, 4800, 9600, 115200
3. Serial number: 7/8
4. Stop: 1/2
5. Verification: None/Odd/Even
6. PTZ: PELCO-D, PELCO-P

6.2.2 Network set

6.2.2.1 Network parameters

Network parameters. Network setting, PPPOE setting, DDNS setting, E-mail Setting, FTP setting. Net work set: Max connections, IS enable DHCP: Enable/disable, IP address, Subnet, Gateway, MAC address: info port, media port, http port, Main DNS, sub DNS, as picture 6-2-2-1

Network Set

Max connections: (Get Value:1-10)

IS enable DHCP: ▼

IP Address: · · ·

Subnet: · · ·

Getway: · · ·

Mac Addr:

Message Port: (Get Value:0-65535)

Media Port: (Get Value:0-65535)

http Port: (Get Value:0-65535)

Main DNS: · · ·

Sub DNS: · · ·

Save

(Picture: 6-2-2-1)

1. Max connections. After change max connection press [Save] button, Max connections bar will shows modified value (example: set max connection as 5 and press [Save] button, when equipment finish reboot the max connection value will shows 5, when using IE to access the equipment the visitor can not be over 5, the sixth visitor cannot

see any video).

2.Enable DHCP. Enable/disable selectable. When enable DHCP, the IP address, Subnet and Gateway address will became not editable. Then press [Save] button, after finished this setting, use [IPSEARCH] to search the IP address of equipment, DHCP server will give an IP address to equipment. When disable DHCP, IP address bar, subnet, gateway address bar will light up and became editable.

3.IP address. After modified IP address press “save” button, system will jump to the screen of login page.

4.Subnet address. Modify the subnet address, then press [Save] button, the Subnet address bar will shows the modified subnet address info.

5.Gateway address. Modify the gateway address, then press [Save] button, the gateway address bar will shows the modified gateway address info.

6.Information port. Modify the info address, then press [Save] button, the info address bar will shows the modified info address info.

7.Media port. Modify the Media port, then press [Save] button, the Media port bar will shows the modified Media port info.

8.http port. Modify the web port, then press [Save] button, the http port bar will shows the modified http port info.

9.Main DNS server. Modify the main DNS address, then press [Save] button, the Main DNS bar will shows the modified Main DNS info. The Main DNS setting will directly effect if the email can be send successfully when alarm happens.

10.Sub DNS server. Modify the sub DNS address, then press [Save] button, the sub DNS bar will shows the modified sub DNS info

6.2.2.2 PPPOE Setting

PPPOE set: Enable PPPOE, PPPOE user name, PPPOE password. As picture 6-2-2-2)



PPPOE Set

☐ Enable

User Name:

password:

Save

(Picture: 6-2-2-2)

1.Enable PPPOE. Select PPPOE bar, press [Save] button, system will jump to the screen of reboot

and begin to count down. When finished reboot system will connect defined PPPOE by dialing, when connection success, a new IP address will automatically give to equipment, then we can use the new IP address to access (note: the new IP address is invisible, so the equipment must be bound by realm name. If the first PPPOE dialing failed, system will redial after every 5 minutes)

2. PPPOE user name. Enter the user name in the ID bar, press [Save] button, system will jump to the screen of reboot and begin to count down. When finished reboot system will connect defined PPPOE by dialing.

3. PPPOE password. Enter the password in the PPPOE bar, press [Save] button, system will jump to the screen of reboot and begin to count down. When finished reboot system will connect defined PPPOE by dialing.

6.2.2.3 DDNS Setting

DDNS set. Enable DDNS, protocol type (Dyn.3322.org), DDNS server, DDNS realm, DDNS ID, password, as picture 6-2-2-3

(Picture: 6-2-2-3)

1. Enable DDNS. Select Enable DDNS, press [Save] button, system will jump to the screen of reboot and begin to count down. When finished reboot, to be available to analysis realm name (note: when enable DDNS, enable UPNP by click [remote set] → [basic info] → [foundation set]) The set realm name can access this equipment by WAN.

2. Protocol type. DynDNS and 3322.org selectable, only one type can be set.

3. DDNS server. Set Server according to the selected Protocol type (note: if you select DynDNS type, the DDNS server should be checkip.dyndns.com)

4. DDNS Realm: enter your applied realm name in the DDNS realm bar, the entered realm name will be use to access this equipment.

5.DDNS ID. Enter the applied DDNS ID in the DDNS bar, press [Save] button, system will jump to the screen of reboot and begin to count down, when finish reboot, system will login the realm name according to the DDNS ID.

6.DDNS Password. Set DDNS password in “Password” and click [Save], then the page will appear Device Reboot, after finished, the system will log in DDNS server according to the DDNS set.

6.2.2.4 Email Set

Email Set: Enable Email, Motion Tittle, Alarm Tittle, SMTP Server, SMTP Port, User Name, Password, Send E-mail, Receiver E-mail, Receiver E-mail, Receiver E-mail, Receiver E-mail. As picture 6-2-2-4 below:

The screenshot shows the 'E-mail Set' configuration interface. It includes an 'Eable' checkbox and several text input fields for configuring email settings. The fields are labeled as follows: Motion Tittle, Alarm Tittle, SMT Pserver, SMTP Port, User Name, Password, Send E-mail, and four Receiver E-mail fields. A 'Save' button is located at the bottom right of the form.

(Picture: 6-2-2-4)

- 1.Enable Email. Tick “Enable” and click “Save”, then the page will appear “Save success”. When alarm or others triggered, snapshot images will be sent according to the email set.
- 2.Motion Title. Set the title in “Motion Title”,when motion detection alarm triggered, the title will be shown in email.
- 3.Alarm Title. Set the title in “Alarm Title”, when alarm triggered, the title will shown in email.
- 4.SMTP Server. Set the sender email's server address, and click “Save”, when alarm triggered, snapshot images will be sent according to the email set (example: QQ email's SMTP server address is: smtp.qq.com)
- 5.SMTP Port. Set Port in “SMTP Port” and click “Save”, when alarm triggered, snapshot images will be sent according to the email set (example: QQ' s email SMTP port is 25)
- 6.User name. Set sender's user name in “User name” and click “Save”, when alarm or others triggered, snapshot images will be sent according to the email set.

7. Password: Set password in “Password” and click “Save”. When alarm or others triggered, snapshot images will be sent according to the email set.

8. Send E-mail. Set sender’s email address in “Send Email” and click “Save”, when alarm and others triggered, snapshot images will be sent according to the email set.

9. Receiver E-mail. Set receiver’s email address in “Receiver Email” and click “Save”. When alarm or others triggered, snapshot images will be sent according to the email set.

6.2.2.5 FTP Set

FTP Set. Enable FTP Server, FTP Server, FTP Port, FTP Send Mode:

Passive&Negative, ID, Password, Upload path. As picture 6-2-2-5 below:

(Picture: 6-2-2-5)

1. Enable FTP Server: Tick “Enable” and click “Save”, the page will appear “Save Success”, when alarm or others triggered, snapshot images will be sent according to the FTP Set.

2. FTP Server. Set FTP Server address.

3. FTP Port. Set FTP port (default FTP port: 21)

4. FTP Send Mode. Passive&Negative option.

5. ID. Type the ID account and click “Save”, the page will appear “Save Success”. When alarm or others triggered, snapshot images will be sent according to the FTP set.

6. Password. Type in the password and click “Save”, the page will appear “Save Success”.

7. Upload Path. Type in the file name that you plan to store in the server and click “test”. If FTP server is available and connected normally, the page will appear “Test Success”. When alarm or others triggered, snapshot images will be sent to the file you have set in “upload path”.

6.2.3 Milestone Server Set

6.2.3.1 Milestone Server Set

Milestone Serve Set, as picture 6-2-4-1 below:

Milestone ServerSet	
Server Ip Address:	192 · 168 · 0 · 155
Milestone server port:	1234 (Note: Milestone Server Port,default No. 1234)
Video loss:	vloss (Note: Same as Milestone Video Loss Setting)
Motion Loss:	motion (Note: Same as Milestone Motion Detection Setting)
Detector Note:	sensor (Note: Same as Milestone Detector Setting)

Save

(Picture: 6-2-4-1)

1. Server IP Address. Type in milestone server's address (example: if milestone server is installed in a computer with IP address 192.168.0.155, then the server IP address to 192.168.0.155)
2. Milestone server port. Type in the server port, default is 1234.
3. Video Loss. Firstly, you need to add one regular event in milestone server and set event sub-string, then build a alarm conception in "alarm conception", add the regular event into the alarm conception, here you must ensure the event sub-string has the same name as the in "Video loss", then when video loss alarm triggered, the alarm will happen in milestone (example: if the sub-string in regular is set as "vloss", and the video loss is set "vloss" in milestone server, then the alarm event will be shown in milestone.)
4. Motion Loss. Same procedure as Video Loss.
5. Detector Note. Same procedure as Video Loss.

6.2.4 Event Management

Event Management, as picture 6-2-4-1 below:

Event management					
Event	Record	Snap	uploadFTP	uploadEmail	Alarm OutPut
Motion	☐	☒	☐	☐	☐
Alarm	☐	☒	☐	☐	☐

(Picture: 6-2-4-2)

1. Motion. After clicking "Motion", the page will be Motion Set.
2. Alarm. After clicking "Alarm", the page will be Alarm Set.

6.2.5 User Management

User Management: Example 37 sas picture 6-2-5-1 below. Users will be divided into 3 levels, each will be different,  means you have the authority ,  means you don't have the authority.

UserManage											
User											
Level			User					modify			
Manager											
Maintenance staff											
User											

Vefire											
authority	Manager	Maintenance staff	User	authority	Manager	Maintenance staff	User	authority	Manager	Maintenance staff	User
Authority view	✓	✓	✓	View pictures	✓	✓	✓	Record	✓	✓	✓
Remote playback	✓	✓	✓	Local playback	✓	✓	✓	OSD Control	✓	✓	✓
PTZ Control	✓	✓	✓	SET Water	✓	✓	✓	Image	✓	✓	✓
ManualRe	✓	✓	✓	Namaul Snap	✓	✓	✓	Parameter setting	✓	✓	✗
Local parameter	✓	✓	✗	Path parameter	✓	✓	✗	LocalRecord Schel	✓	✓	✗
RemotionPara	✓	✓	✗	Basic Info	✓	✓	✗	Basic Set	✓	✓	✗
Vedio Set	✓	✓	✗	Remotion Record	✓	✓	✗	SD Card Manage	✓	✓	✗
Motion Set	✓	✓	✗	Snap Set	✓	✓	✗	Alarm Set	✓	✓	✗
Serial Set	✓	✓	✗	NetWork Parameter	✓	✓	✗	PPPOE settings	✓	✓	✗
DDNS Set	✓	✓	✗	E-mail Set	✓	✓	✗	FTP settings	✓	✓	✗
Alarm Server settings	✓	✓	✗	Milestone Server settings	✓	✓	✗	Event Manage	✓	✓	✗
User Manage	✓	✗	✗	Default	✓	✓	✗				

(Picture: 6-2-5-1)

1. Levels. Divided into “Manager”, “Maintenance Staff”, “User”.
2. User name. Type in user name in “User Name”.
3. Password. Type in password in “Password”.
4. Confirm. Confirm the password in “Confirm”.

(Picture: 6-2-5-2)

6.2.6 System Maintenance

System Maintenance, as picture 6-2-6-1 below:

Default	
Default Enable?	Completely
Reboot	
Reboot Enable?	Sure

(Picture: 6-2-6-1)

1. Default. Click “Completely” will default the system.
2. Reboot. Click “Sure” will reboot the device.

7. Operation Environment

7.1 Operation System

Operation System: Windows XP, Windows7, Windows Server 2003

7.2 Browser Compatibility

IE Browser: IE7.0, IE8.0, IE9.0, IE10

www.comelitgroup.com



Via Don Arrigoni, 5 - 24020 Rovetta (BG) - Italy