



**PB731P / PB731I**  
**Wi-Fi Network Camera**

# Getting Started Handbook

**Version 1.2**



**PIXORD Corporation**

May 2013

---

---

Trademark Acknowledgments:

**PiXORD** is a registered trademark of PiXORD Corporation.

All other trademarks used in this handbook are registered trademarks of their respective companies.

Copyright © 2013 by PiXORD Corporation

**All Rights Reserved**

Printed in Taiwan

PiXORD Corporation reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to PiXORD Corporation's terms and conditions of sale supplied at the time of order acknowledgment.

PiXORD is not responsible or liable for the resale of its products with statements different from or beyond the specification/parameters stated by PiXORD. Customers are responsible for their applications using PiXORD products. To minimize the risks associated with customer applications, customers should provide adequate operating safeguards. PiXORD is under no obligation to provide any further technical support service or product/software alteration beyond PiXORD's representation.

PiXORD products are not authorized for use in safety-critical applications where a failure of the PiXORD product would cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use.

Reproduction of PiXORD information or datasheets with alteration is prohibited. PiXORD is not responsible or liable for any of such altered statements.

Every care has been taken in editing this manual. If there are any inaccuracies or omissions, please inform your local PiXORD office. PiXORD Corporation cannot be held responsible for any typographical or technical errors. PiXORD Corporation is not liable or responsible for incidental or damages caused by any misinterpretation of this publication.

**PiXORD** PiXORD Corporation  
Moving Pictures Around the World

---

5F, 12 Innovation 1<sup>st</sup> Road  
Hsinchu Science Park  
Hsinchu, TAIWAN 30076  
Tel: +886 3 567-8818  
Fax: +886 3 567-8990  
[marketing@pixord.com](mailto:marketing@pixord.com)

---

# Contents

<b>Contents</b>	<b>iii</b>
Important Notes .....	v
Customer Support .....	vi
<b>1 Introduction</b>	<b>1</b>
1.1 Hardware Overview .....	1
1.1.1 Package Contents.....	2
<b>2 Installation and Setup</b>	<b>3</b>
2.1 Table, Ceiling, and Wall Mounting of Camera .....	3
2.2 Connecting Camera to Network .....	3
2.2.1 Through LAN Router Cable.....	3
2.2.2 Through Wi-Fi Protected Setup (WPS).....	5
<b>3 Registration and Binding of Camera</b>	<b>7</b>
3.1 iPIXORD Account Registration by PC/Notebook .....	7
3.1.1 Registration through iPIXORD “Create Account” .....	8
3.1.2 Registration through Google Account .....	9
3.2 Binding Camera into iPIXORD by PC/Notebook .....	9
3.2.1 Binding Camera for the First Time.....	9
3.2.1 Binding More Cameras into iPIXORD Account .....	13
3.2.2 Modifying Camera Default Names.....	15
3.3 iPIXORD Account Registration by Smartphones /Tablets .....	17
3.3.1 Downloading iPIXORD App.....	17
3.3.2 iPIXORD Registration through “Create Account” .....	18
3.3.3 iPIXORD Registration through “Google Account” .....	19
3.4 Binding Camera into iPIXORD by Smartphones /Tablets.....	20
<b>4 Camera Live View UI Settings</b>	<b>23</b>
4.1 Quick Access Buttons .....	25
4.2 Camera Live View UI Setting Tools .....	26

### Revision History

Doc. Version	Revision Description	Date
1.0	Initial Official Release	2013/01/18
1.1	Rearranged and Reformatted Contents	2013/04/29
1.2	<a href="#">Correct some descriptions for more detail</a>	2013/05/14

---

# Read Me First!

---

## Important Notes

This handbook is intended for administrators and users of the PiXORD PB731P/731I Cloud Wi-Fi Network Camera, including instructions for using and managing the camera on your network. The use of surveillance devices may be prohibited by law in your country or area. It is therefore the user's responsibility to ensure that the operation of such devices is legal before installing this unit for its intended use.

Before the Network Camera is installed, carefully read and follow all the safety and operating instructions to avoid damage due to faulty assembly and installation. This also ensures that the device is used properly as intended.

## Heed All Warnings

- **Do not drop or hit the device.**  
Sensitive electronics inside the camera are vulnerable to excessive impact.
- **Do not install the device under high temperature (less than 45°C) environment (45.**  
Excessive heat could damage the equipment.
- **Do not cover device with any object or install it in a poorly ventilated vicinity.**  
Overheating could damage the camera.
- **Do not expose the device to rain or moisture. Do not touch the power connection with wet hand.**  
Risk of short circuit, electric shock, or fire
- **Do not damage the power cord or leave it under pressure.**  
Risk of fire or circuit electric shock
- **To reduce the risk of electric shock or damage, do not remove the front or back cover.**  
There is no user-serviceable parts inside. Misusage, improper, or negligent handling could damage the device. Refer to qualified service personnel from PiXORD distributor/dealer for any device related trouble shooting need.

- **Do not continue to operate the device if it appears to malfunction.**  
Contact qualified service personnel from PiXORD distributor/dealer for help.
- **Installation of the product should be made by qualified service personnel or system installers from PiXORD distributor/dealer.**

---

## Customer Support

If you require any technical assistance, please contact your nearest PiXORD distributor/dealer. You may also access the PiXORD website at [www.pixord.com](http://www.pixord.com) for following supports:

- Find answers to resolved your problems from FAQ database or contact our FAE at technical support (<http://www.pixord.com/contact2.asp>).
- Download latest user documentation and firmware updates at PiXORD Support (<http://www.pixord.com/support/support.asp>)

## Registration

To receive the latest updates of product information in the future, register your equipment at <http://register.pixord.com/register/>.

# 1 Introduction

PiXORD **PB731P/731I** Cloud Wi-Fi Network Camera delivers superior H.264-AVC performance, state of the art design, and function. It is specifically designed for maximum performance at cost-effective indoor applications, such as elderly care monitoring, overseeing baby, home security, convenient store /office surveillance, etc.

## 1.1 Hardware Overview

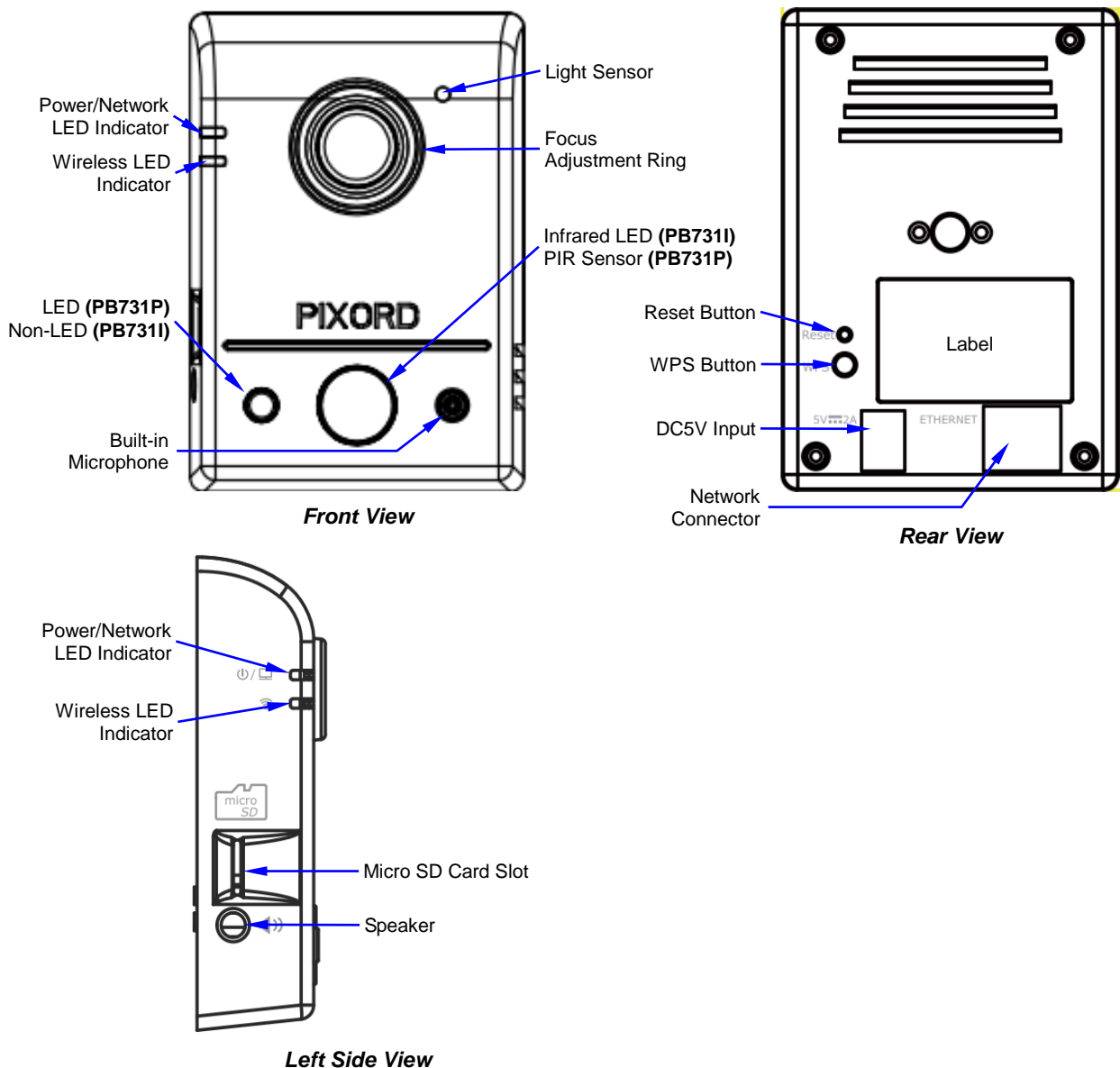


Figure 1-1 PB731P/731I Cloud Wi-Fi Network Outer Shell Profiles

### 1.1.1 Package Contents

Each **PB731P/731I** Network Camera comes with the following accessories:

- A mounting bracket with 2 sets of wood screws & anchors
- A power adaptor (Output: DC5V, 2A; Input: 100~240V 50/60Hz)
- A network RJ45 cable (2.0M)
- A printed copy of “PB731P/731I Quick Guide”
- A CD containing the “Installation Guide Wizard” (a step-by-step guide to camera installation/setup, *i*PIXORD cloud NVR registration process, etc.). It also contains the PDF file of this handbook and other documentations.
- An *i*PIXORD reference card containing the default user name/password, barcode, QR code, alphanumeric code, etc. to use for *i*PIXORD cloud NVR (network video recorder) registration.



# 2 Installation and Setup

## 2.1 Table, Ceiling, and Wall Mounting of Camera

1. Use the 2 supplied screws to mount the mounting bracket to a flat surface.
2. Loosen the lock ring to adjust the Camera to the desired angle.
3. Tighten the lock ring to firmly fix the angle position.

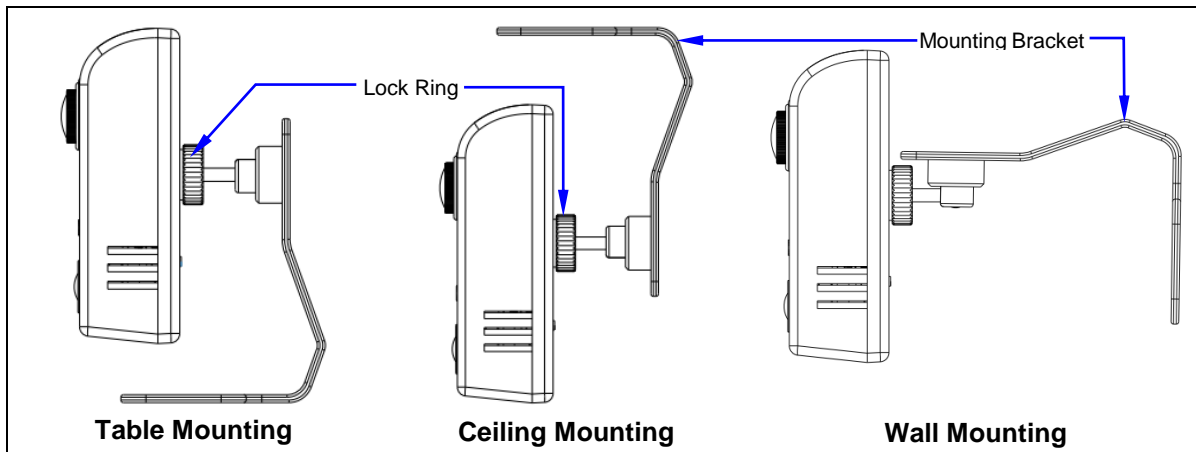


Figure 2-1 Camera Mounting Methods

### NOTE

*Always mount the Camera on mounting bracket to prevent over heating.*

## 2.2 Connecting Camera to Network

### 2.2.1 Through LAN Router Cable

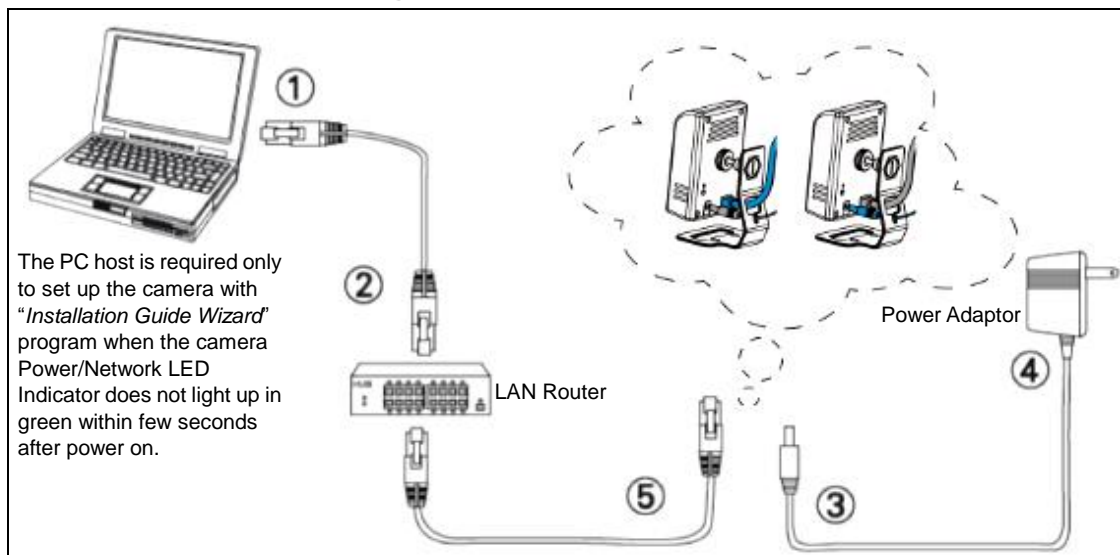


Figure 2-2 Connecting IP Camera to Network

1. Prepare a smartphone/tablet or PC/notebook/ultrabook with Ethernet link to the network.
2. When PC/notebook/ultrabook is used, connect the LAN port of the device to the network router with an RJ45 network cable (① ②).

**NOTE**

*If you are going to use smartphone/tablet as monitoring device the PC/notebook/ultrabook is required only to set up your camera with the “Installation Guide Wizard” program from the CD (included in the camera package).*

3. Plug the DC power jack of the power adaptor (③ ④) to Camera and connect the power adaptor to power outlet (110V or 220V).
4. Connect the network router to the LAN port of Camera with an RJ45 network cable (⑤).
5. With power switched on, check the status of the two LEDs at the left corner of camera:

If the Power/Network indicator (upper LED) turns into green color, it confirms that the Camera has successfully linked with the Internet. Then proceed to start iPIXORD registration and binding process as discussed in Chapter 3.

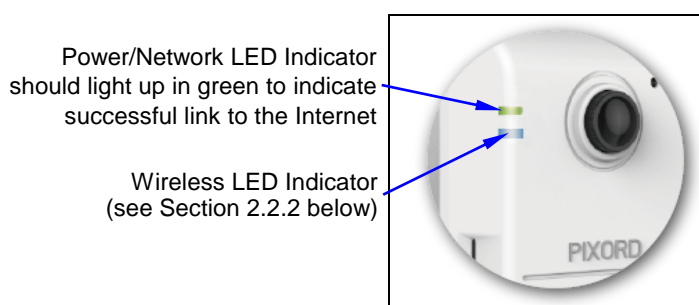


Figure 2-3 Power/Network (Upper LED) & Wireless LED (Lower LED) Indicators

If the upper LED does not turn green, refer to the “Installation Guide Wizard” application program in the CD which will further guide you in detail on how to properly setup your camera for Internet connection.

## 2.2.2 Through Wi-Fi Protected Setup (WPS)

To connect the Camera in wireless mode, you need to have a Wi-Fi router with WPS button.

1. With Camera power connected and switched on, press and hold the WPS button (at the back of the Camera) for 3 to 4 seconds and then release button. The Wireless LED Indicator (lower LED) will then start to flash and keep on flashing in blue once every second.
2. Within one minute, press the Wi-Fi router WPS button to interface with the Camera.

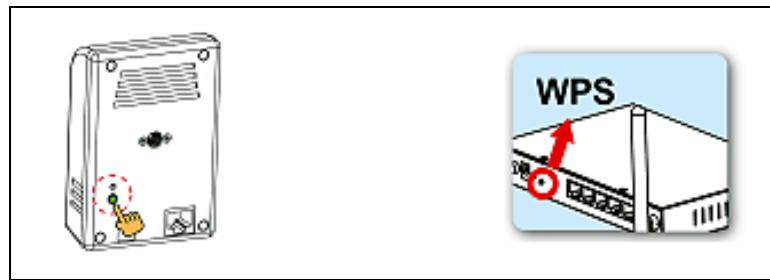


Figure 2-4 WPS Buttons on Both Camera & Wi-Fi Router

3. When successful connection is established between Camera and Wi-Fi Router, the lower LED Indicator will then stabilize and lights up in blue while the upper LED remains lit in green. Then proceed to start iPIXORD registration and binding process as discussed in Chapter 3.

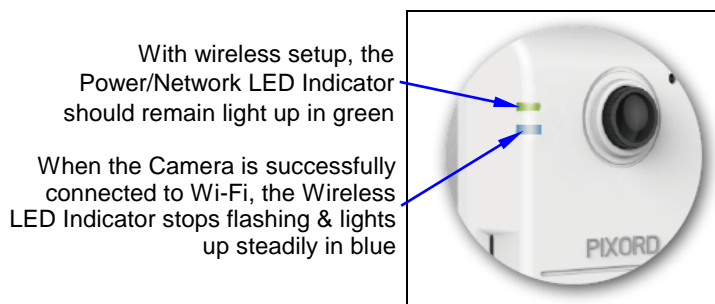


Figure 2-5 Wireless LED (Lower LED) Indicator

If the LED does not turn steadily in blue, refer to the “Installation Guide Wizard” application program in the CD which will further guide you in detail on how to properly setup your Camera for Internet Wi-Fi connection.



# 3 Registration and Binding of Camera

iPIXORD is a Cloud NVR (Network Video Recorder) server that provides multiple Live View and Event Recording, and Playback of videos taken by your Camera. It also allows you to make changes to your settings remotely.

There are two methods with which you can register and bind your Camera into iPIXORD, i.e., through your Internet connected PC/notebook (see Sections 3.1 & 3.2) or by using your smartphone/tablet (see Section 3.3 & 3.4). However, it is highly recommended that you create the Camera account through PC/notebook as it is more convenient to use than smartphone/tablet which has limited functions and smaller screen size.

## 3.1 iPIXORD Account Registration by PC/Notebook

Visit iPixord website <http://www.ipixord.com>. When the following dialog displays, click **Create Account** button. If you already have an existing Google account, you may click **Google Login** button to use it as stand-in for your iPIXORD account.

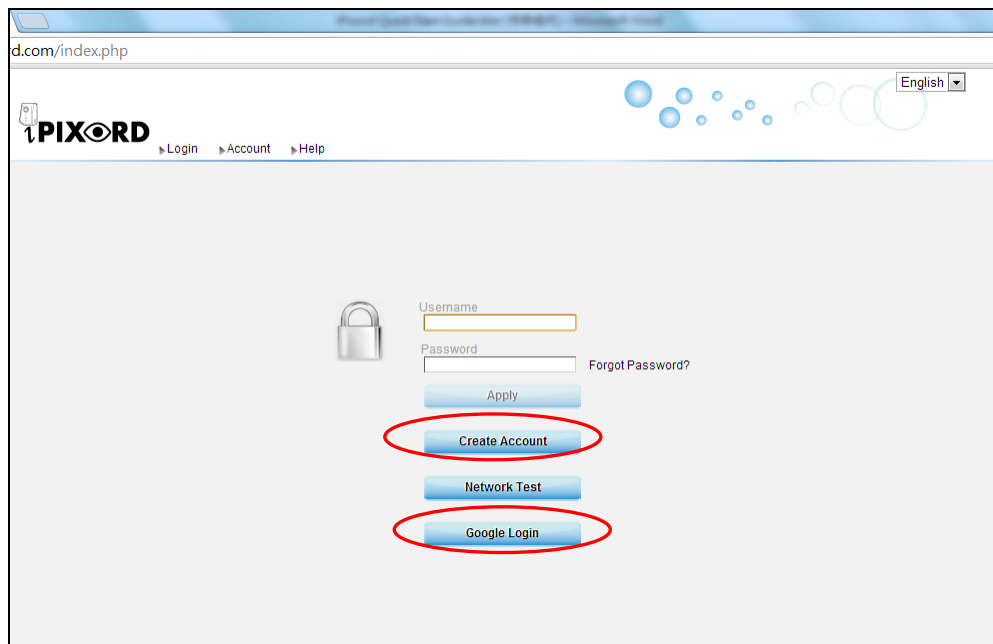
The image shows a web browser window displaying the iPIXORD account registration initial dialog. The browser's address bar shows 'd.com/index.php'. The page header includes the iPIXORD logo, navigation links for 'Login', 'Account', and 'Help', and a language dropdown menu set to 'English'. The main content area features a lock icon on the left. To the right, there are input fields for 'Username' and 'Password', with a 'Forgot Password?' link next to the password field. Below these fields are four buttons: 'Apply', 'Create Account', 'Network Test', and 'Google Login'. The 'Create Account' and 'Google Login' buttons are highlighted with red circles.

Figure 3-1 iPIXORD Account Registration Initial Dialog

### 3.1.1 Registration through iPIXORD “Create Account”

Create Account

- 1) After clicking **Create Account** button, the following dialog will then display to prompt you to define your own User Name, Password, and valid Email address to start the account registration process.

The screenshot shows a web browser window displaying the iPIXORD registration form. The URL is 'rd.com/index.php'. The page has a navigation menu with 'Login', 'Account', and 'Help'. The form has two buttons: 'Apply' (circled in red) and 'Reset'. Below the buttons is a table with two columns: 'Property' and 'Content'. The 'Property' column lists 'Username', 'Password', 'Confirm Password', 'Email', 'Confirm Email', and 'Security Image'. The 'Content' column contains corresponding input fields. The 'Security Image' field shows a small image of a security code '530c7' and a 'Refresh Image' link. The entire form area is circled in red.

Figure 3-2 iPIXORD “Create Account” Sign-in Dialog

- 2) After you have filled-in all the necessary data, click Apply button (see figure above). A few minutes later, iPIXORD will send you an Email message (shown below) into your mailbox to advise you of your newly created account number with instruction to verify your registration.

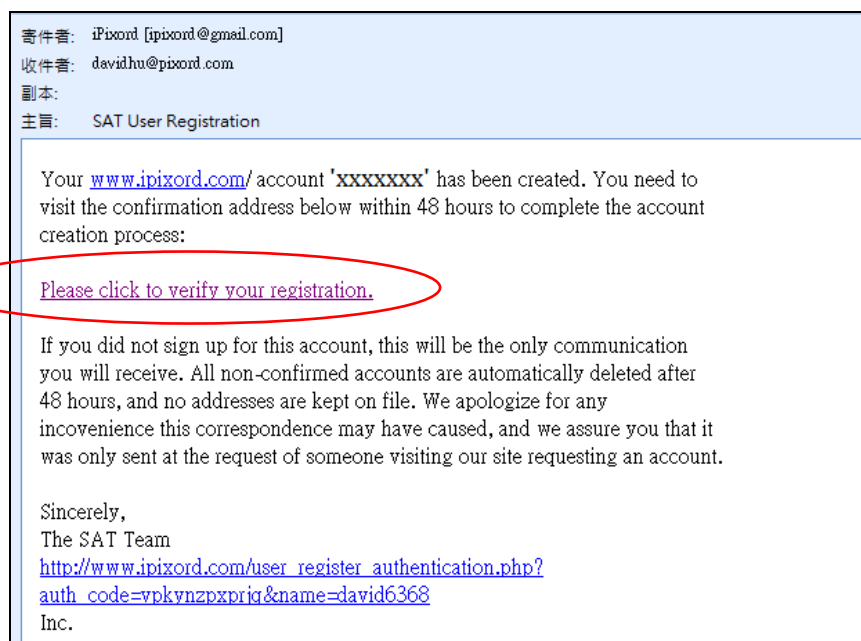


Figure 3-3 Email Message from iPIXORD Advising the Newly Created Account Number

- 3) Click the hypertext “**Please click to verify your registration**” and you will be automatically connected to iPIXORD and prompt you with the process of binding the new Camera into iPIXORD as discussed see Section 3.2.

### 3.1.2 Registration through Google Account

iPIXORD server allows you to use your Google account “User Name” and “Password” for your iPIXORD account. This method is recommended and is easier and faster. Furthermore, iPIXORD can use 5GB free space of your Google account to store backup video recorded in your Camera SD card.

Google Login

- 1) After clicking **Google Login** button (see Figure 3-1), the following dialog will then display to prompt you to sign in your Gmail address and password.

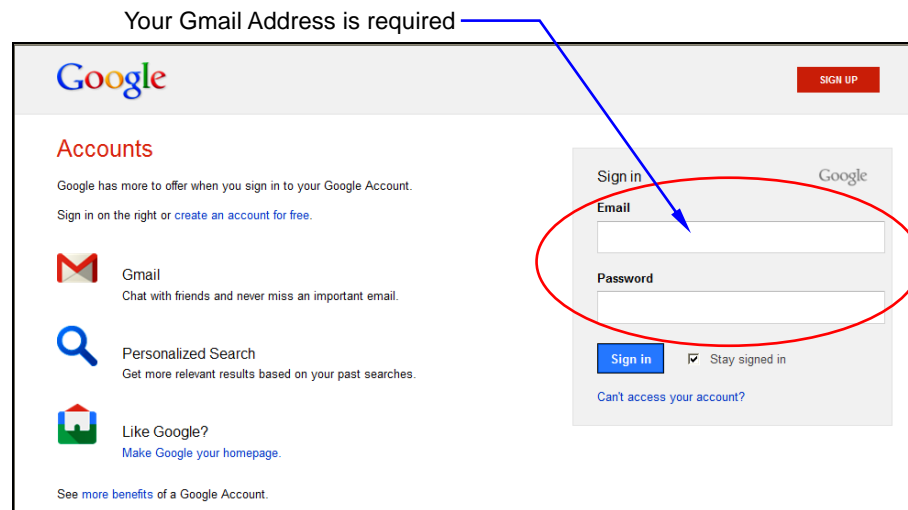


Figure 3-4 Google Account Sign-in Dialog

#### NOTE

- *Google Account provides 5GB free space for recorded video storage.*
- *With “Google Account” used to create the iPIXORD account, you have to use your Gmail Address as Email address and click the “Google Login” button every time you need to log-in into iPIXORD again.*

Sign in

- 2) Click the **Sign in** button and you will be prompt with the process of binding the new Camera into iPIXORD as discussed in the following section (Section 3.2).

## 3.2 Binding Camera into iPIXORD by PC/Notebook

### 3.2.1 Binding Camera for the First Time

At this stage, you already have your personal account registered with iPIXORD but with no Camera attached to your account. So the next step is to bind the Camera that you have just setup into your new iPIXORD account in order to establish link with the network.

- 1) After clicking the hypertext “**Please click to verify your registration**” under **Create Account** (see Section 3.1.1), or clicking the **Sign in** button under **Google Account** (see Section 3.1.2), the “Connect IP Camera” window (shown at right) will pop-up after confirming your name & password. This is to remind you again to properly connect the Camera to power and router. If connection is okay, click the **Next** button.

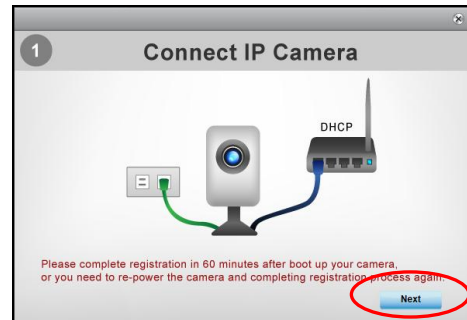
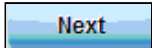


Figure 3-5 “Connect IP Camera” Window

- 2) The “Bind IP Camera” window (shown at right) will pop-up to remind you to get ready with your Camera’s MAC Address and Activate Code. Then click the **Next** button.

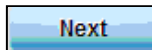


Figure 3-6 “Bind IP Camera” Window

- 3) The **Binding** dialog will then display to prompt you to provide the Camera’s MAC Address and Activate Code (serial number).

No.	MAC Address	Activate Code	Apply
1	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
2	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
3	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
4	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
5	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
6	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>
7	<input type="text"/>	<input type="text"/>	<input type="button" value="Apply"/>

Figure 3-7 New Camera MAC Address & Activate Code Registration

Note that the required data are available from the Activation Card (illustrated below) provided with your Camera and/or on the label at the back of the Camera. Note that these numbers are unique for each Camera.





Figure 3-8 Unique Activation Card for Individual Camera

- 4) After the MAC Address and Activate Code are entered, click the **Apply** button at the right end of the row and the button position will switch from “**Apply**” to “**Success**” to indicate successful binding of the Camera with iPIXORD as illustrated below.

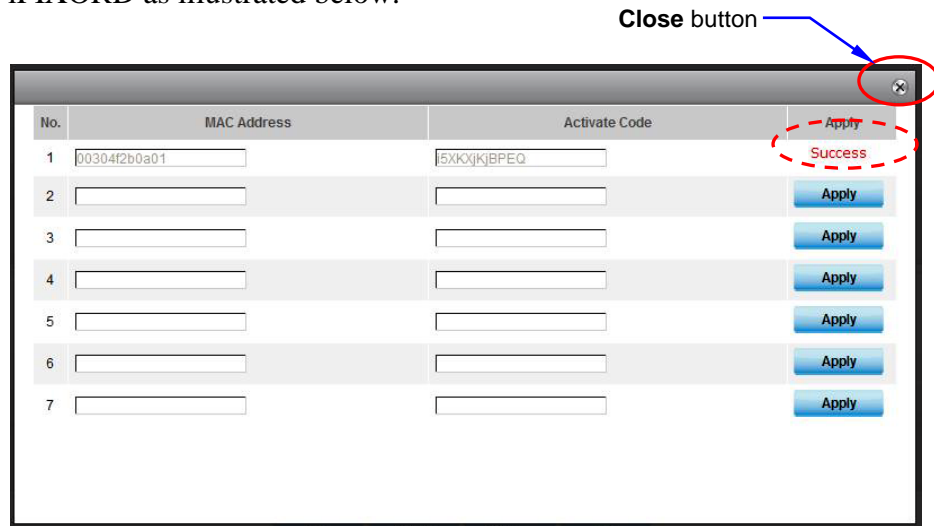


Figure 3-9 Sample Display of Successful Binding of the Camera

Note that if error occurs, an error message is displayed to the right end of the MAC Address value as shown below.

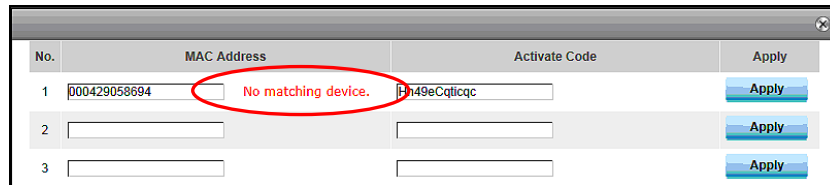


Figure 3-10 Sample Display of Unsuccessful Binding of the Camera

- 5) After successful binding, click the **Close** button (see Figure 3-9 above) at the top-right corner. The **Setting Table** then displays. Click the **Matrix** button at the bottom of the window to display the live view Camera surveillance from the **Matrix** window (shown below).

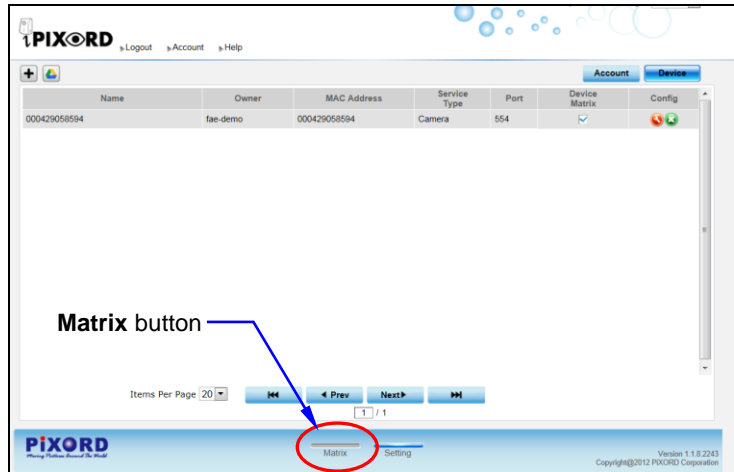
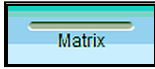


Figure 3-11 "Setting Table" Window

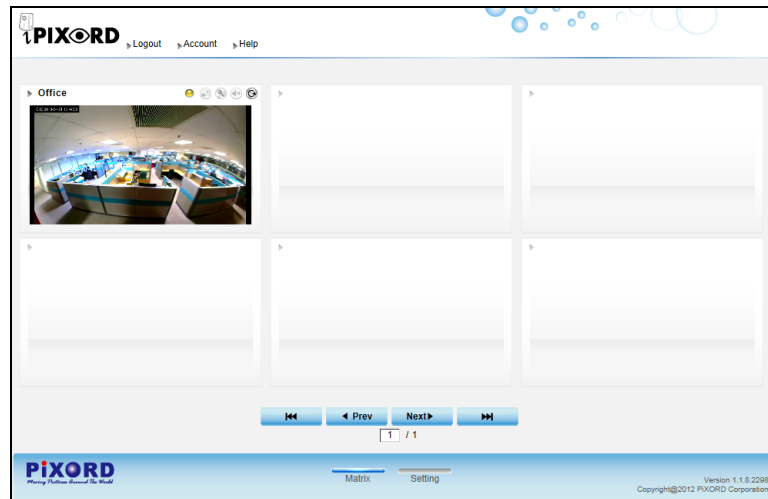


Figure 3-12 Live Surveillance Display Sample of a Successfully Bound Camera



- 6) Click the **Full Screen** button to zoom and view the live display in full screen.

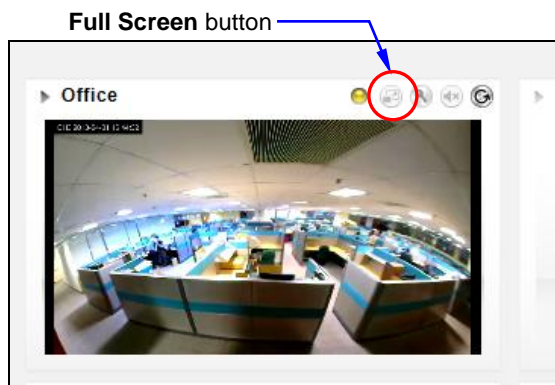


Figure 3-13 Surveillance Live Display "Full Screen" Button

### 3.2.1 Binding More Cameras into iPIXORD Account

To add more installed Cameras into your iPIXORD account, perform the following steps.



- 1) Click the **Setting** button at the right-bottom of the **Matrix** window. The **Setting** dialog (Figure 3-14) will then display.

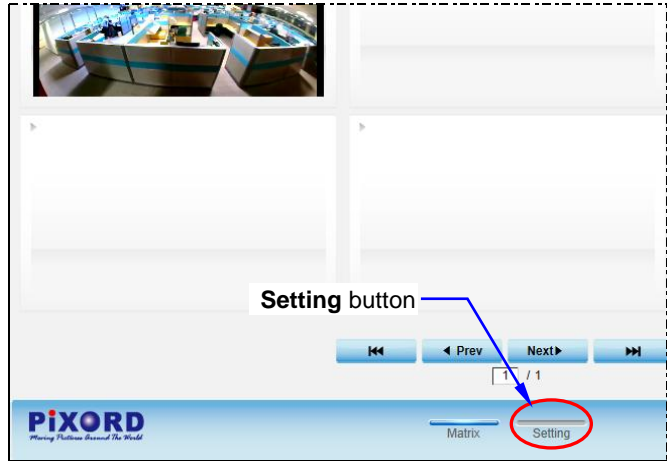


Figure 3-14 “Setting” Button at the Bottom of Matrix Window

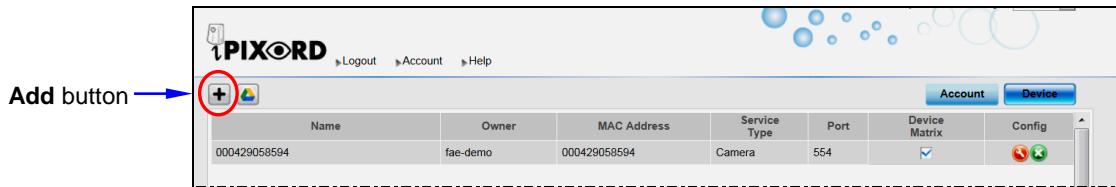


Figure 3-15 “Setting” Dialog Display of a Successfully Bound Camera



- 2) From the **Setting** dialog, click the **Add** button. The pop-up “Connect IP Camera” window (shown at right) will display after confirming your name & password to remind you again to properly connect the Camera to power and router. If connection is okay, click the **Next** button.

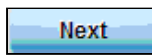
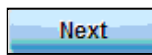


Figure 3-16 “Connect IP Camera” Window



- 3) The “Bind IP Camera” window (shown at right) will pop-up to remind you to get ready with your Camera’s MAC Address and Activate Code. Then click the **Next** button.



Figure 3-17 “Bind IP Camera” Window

- When the **Binding** dialog appears, fill in the MAC Address and Activated Code of the to be added Camera. Note that the required data are available from the Activation Card provided with each Camera or from the label at the back of the Camera.

No.	MAC Address	Activate Code	Apply
1	<input type="text"/>	<input type="text"/>	Apply
2	<input type="text"/>	<input type="text"/>	Apply
3	<input type="text"/>	<input type="text"/>	Apply
4	<input type="text"/>	<input type="text"/>	Apply
5	<input type="text"/>	<input type="text"/>	Apply
6	<input type="text"/>	<input type="text"/>	Apply
7	<input type="text"/>	<input type="text"/>	Apply

Figure 3-18 “Binding” Dialog for Registration of Additional Camera(s)



- After the MAC Address and Activate Code of the new Camera is entered, click the corresponding **Apply** button at the right end column and the button position will switch into “**Success**” display to indicate successful binding of the new Camera with iPIXORD as illustrated below. Then click the **Close** button.

No.	MAC Address	Activate Code	Apply
1	90304f2b0a01	5XKXjKjBPEQ	Success
2	<input type="text"/>	<input type="text"/>	Apply
3	<input type="text"/>	<input type="text"/>	Apply
4	<input type="text"/>	<input type="text"/>	Apply
5	<input type="text"/>	<input type="text"/>	Apply
6	<input type="text"/>	<input type="text"/>	Apply
7	<input type="text"/>	<input type="text"/>	Apply

Figure 3-19 Sample Display of Successful Binding of the Newly Added Camera

**NOTE**

*The example in the above figure, shows only one new Camera is added. Actually you can simultaneously add several Cameras into the dialog at the same time*



- The **Setting Table** (shown below) displays the newly added Camera being listed at the bottom of previous ones. Then click the **Matrix** button at the bottom of the window.

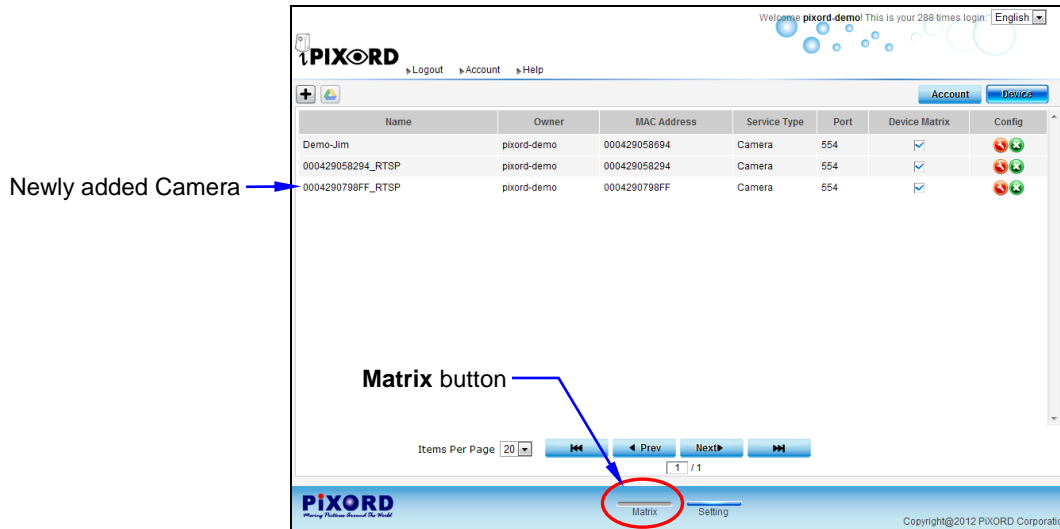


Figure 3-20 Setting Table Listing the Successful Binding of the Newly Added Camera

- All bound Cameras as listed in the **Setting** table are then displayed live view in the **Matrix** window (illustrated below).

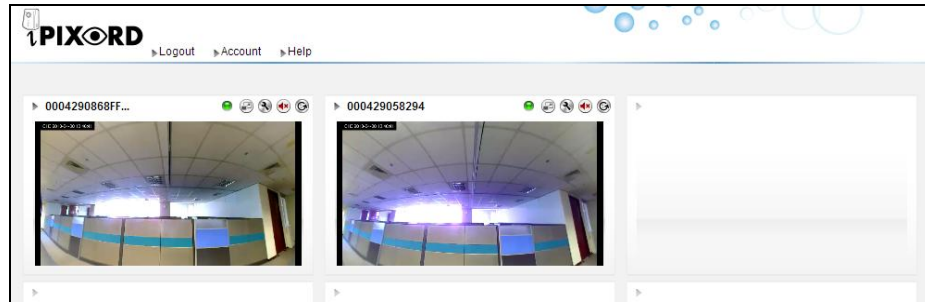


Figure 3-21 Matrix Window with the Second Newly Added Camera Displayed to the Right

### 3.2.2 Modifying Camera Default Names

With several Cameras being installed, you may have a hard time identifying which Camera is installed where from their MAC Addresses. Hence, you may assign unique names to each Camera for easy identification, e.g.; names that are related to Camera positions. To do so, carry out the following steps.

Setting

- 1) From the bottom of the **Matrix Window**, click the **Setting** button

This Camera has connection or other error

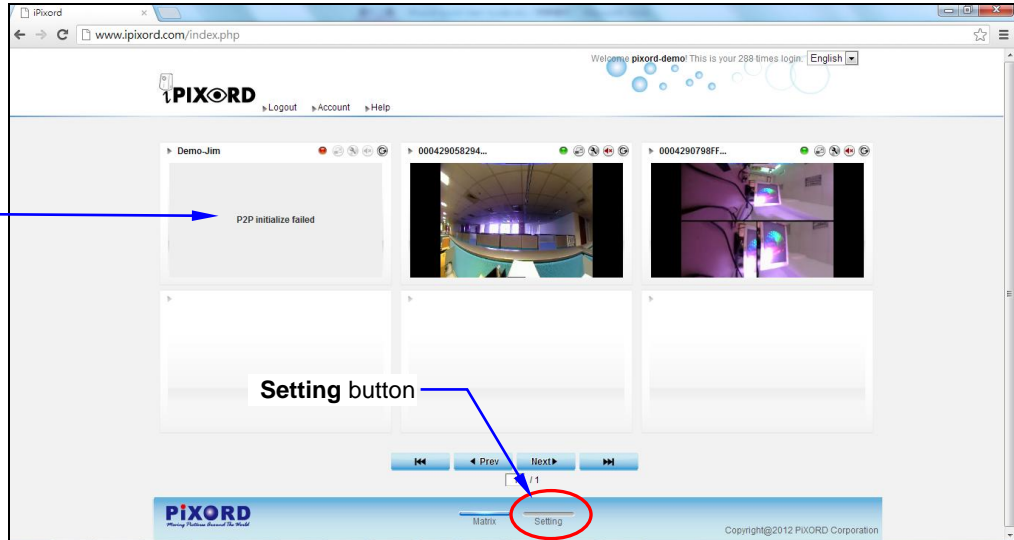


Figure 3-22 “Setting” Button at the Bottom of Matrix Window



- 2) When the Camera **Setting** table appears (illustrated below), click on the **Setting** button of the Camera you want to change name.

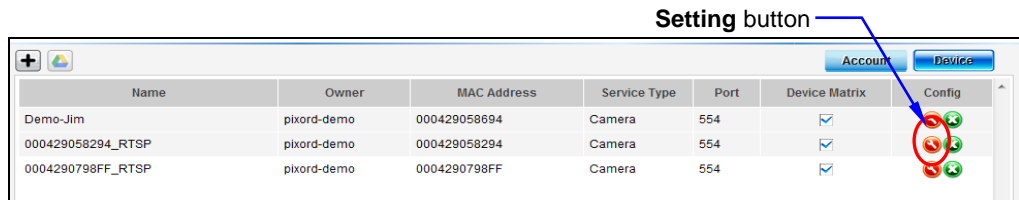


Figure 3-23 Setting Table Showing Existing Bound Cameras

- 3) The **Modify** dialog will then appear as illustrated below. Click on the **Name** text box to enter a new Camera name. You can also change video by clicking on the Video Quality option buttons. Then click **Apply** button to execute the changes.

Apply

Click on option button to change the video quality

Click this text box to enter a new Camera name

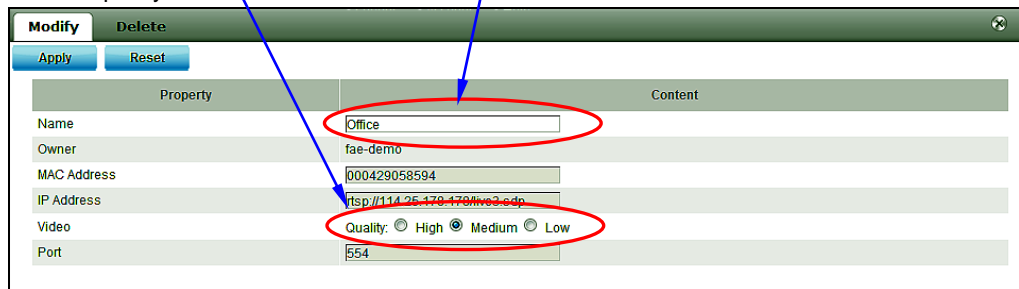


Figure 3-24 Modify Camera Name & Video Quality Dialog

## 3.3 iPIXORD Account Registration by Smartphones /Tablets

### 3.3.1 Downloading iPIXORD App

First of all, you need to download the “**iPIXORD App**” store into your smartphone/tablet. This is done by touching the Apple “**APP Store**” icon on your iPhone/iPad, or the “**Google Play**” store icon on your Android Mobile device. Then search for “**iPIXORD App**” by keying “**i-P-I-X-O-R-D**”. The “**iPIXORD App**” is then installed into your device and its icon displayed.

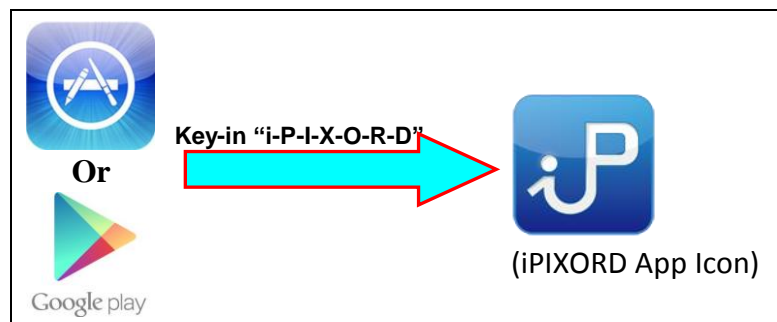


Figure 3-25 Installing “iPIXORD App” into Smartphones/Tablets by Keying “iPIXORD”

Alternatively, you may scan the QR Code below with your device to automatically download URL and “**iPIXORD App**” into your smartphone/tablet.



Figure 3-26 Scan QR Code to Directly Install “iPIXORD App” into Smartphones/Tablets

### 3.3.2 iPIXORD Registration through “Create Account”



- 1) From your device apps display, tap the “**iPIXORD App**” icon to launch iPIXORD. When the following dialog displays, tap the **Create Account** button to create or register your new iPIXORD account.

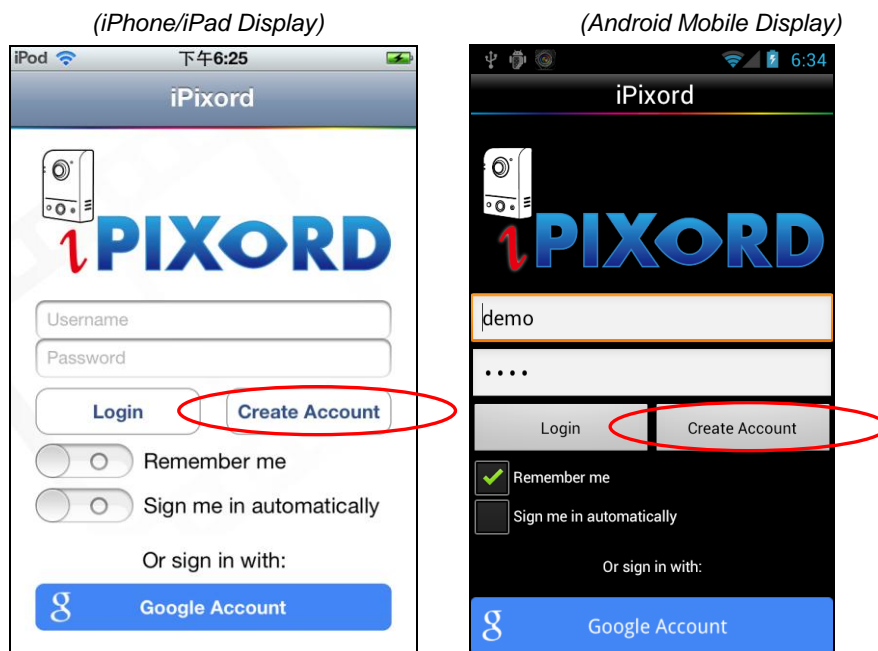


Figure 3-27 Registering New iPIXORD Account through “Create Account”

- 2) When the **iPIXORD Create Account** dialog (see right figure) pops-up, enter the required information in the text boxes.
- 3) Tap **Apply** button to start binding your Camera as explained in Section 3.4.

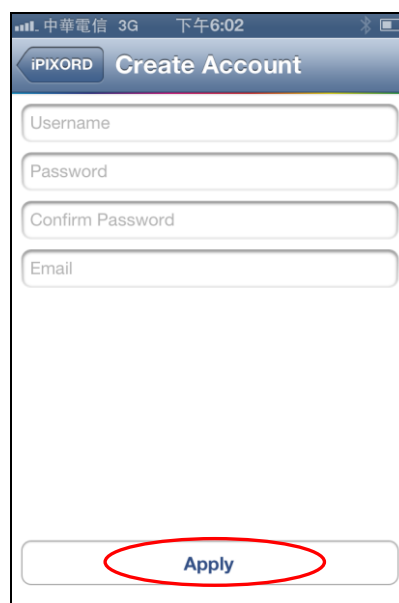


Figure 3-28 “iPIXORD Create Account” Dialog



### 3.3.3 iPIXORD Registration through “Google Account”

- 1) If you already have a Google account, you can tap the **Google Account** button to register with iPIXORD.

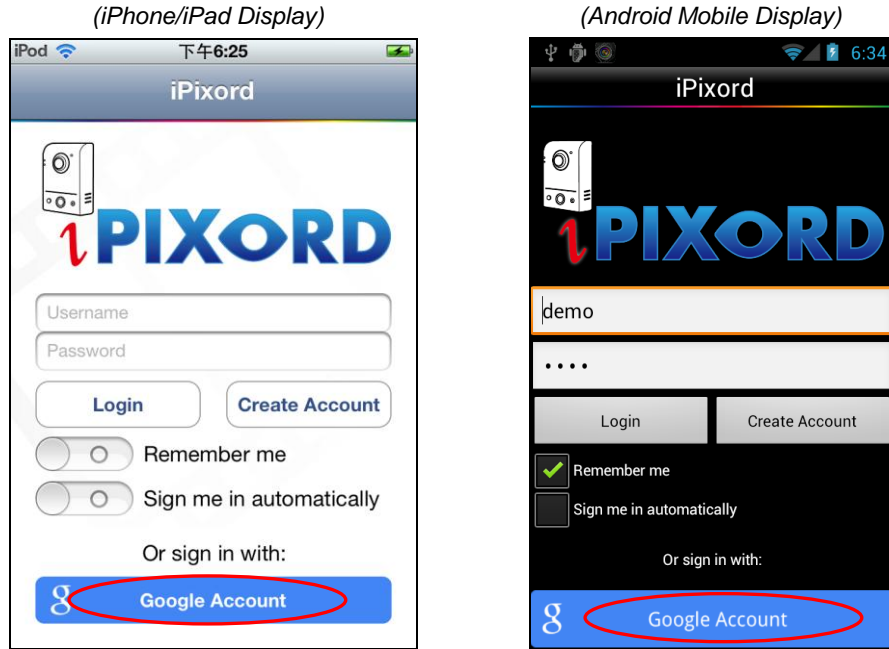


Figure 3-29 Registering New iPIXORD Account through “Google Account”

- 2) When the Google **SIGN UP** dialog (see below) pops-up, enter the required information in the text boxes.



- 3) Tap **Sign In** button to start binding your Camera as explained in Section 3.4.

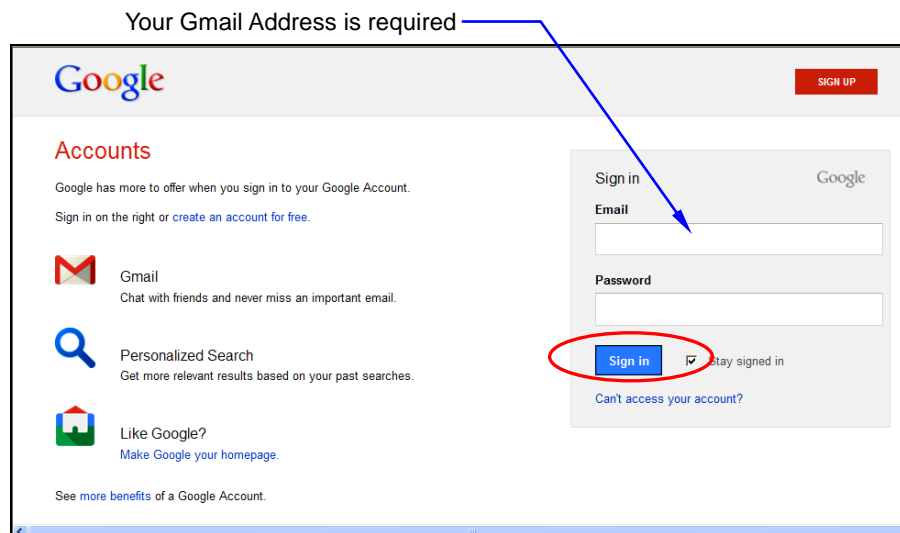


Figure 3-30 Google SIGN UP Dialog

**NOTE**

- *Google Account provides 5GB free space for recorded video storage.*
- *If “Google Account” is used to create the iPIXORD account, you have to use your Gmail Address as Email address and tap the “Google Account” button every time you need to log-in into iPIXORD again.*

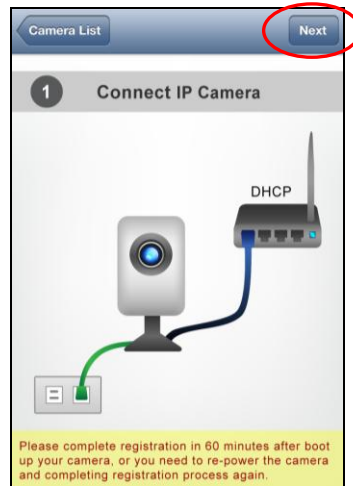
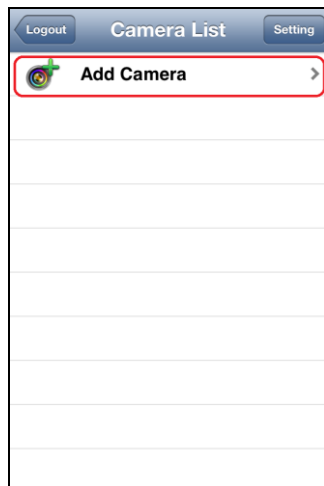
### 3.4 Binding Camera into iPIXORD by Smartphones /Tablets

**NOTE**

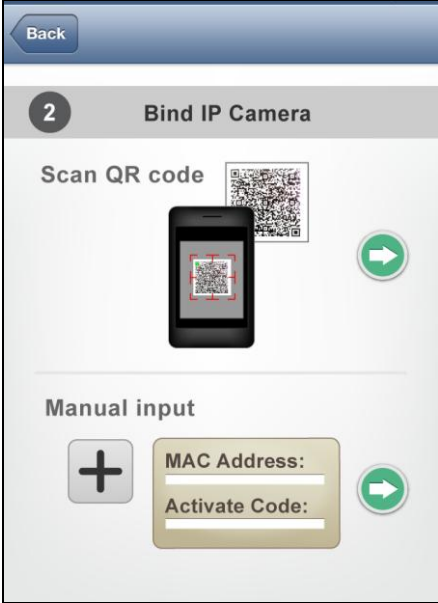
*Make sure the Camera power is on and is properly connected with Internet.*

With iPIXORD account successfully implemented, the **Camera List** dialog will display to prompt you to start binding your new Camera(s) to iPIXORD by following the process described in below:


- 1) Tap the **Add Camera** button
- 2) Tap the **Next** button if the Camera connection is okay.



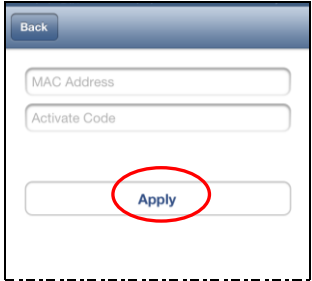
- 3) “Bind IP Camera” window pops-up to prompt for MAC Address and Activate Code input into iPIXORD. This is done by either scanning the unique QR Code card (see Figure 3-8, Section 3.2), or by manually keying the data.



Scanning QR code will automatically bind the Camera into iPIXORD

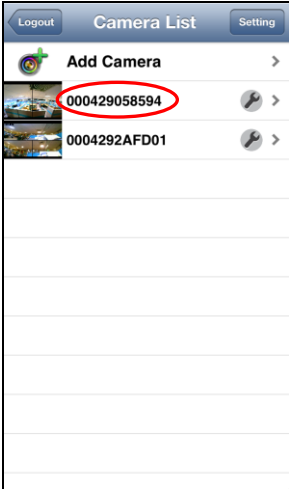



“Manual input” will prompt you to enter the Camera’s data into a Text Box. Then tap **Apply** button.



- 4) The MAC Address (serial number) of the new Camera is now being added to the existing list. Tap the serial number to view the Camera on-line video.

- 5) Live on-line video is now on display.

**NOTE**

*You cannot use your smartphone to change the Camera default designations. You need to use a PC/notebook/ultrabook to accomplish it as explained in Section 3.2.2*

# 4 Camera Live View UI Settings

Using PC/notebook/ultrabook, you may change and reconfigure the Camera live view user interface (UI) settings to suit your need by following the procedures below.

- 1) Access the Camera live view page through your local network (or via iPIXORD). Then click the **Tool** button.

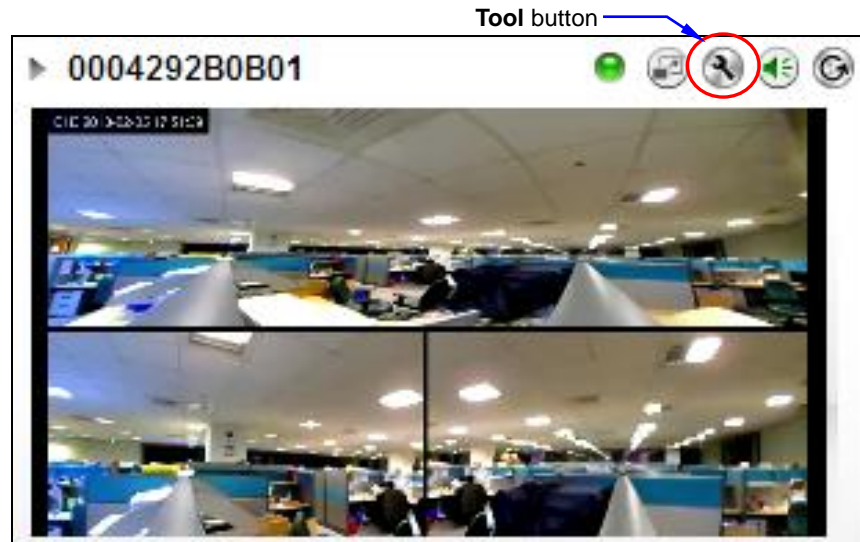


Figure 4-1 Camera Live View Configured in Triple View

### NOTE

- *For first time user, there will be a prompt to install the ActiveX control. Conply with the ActiveX installation as it is needed to view the video stream and some other operations.*
- *Use of Microsoft IE browser is recommended as it offers a better compatibility.*

- 2) Then the “Windows Security” dialog displays. Enter a username and password. You may enter “admin” for both. Click **OK** button when completed.



Figure 4-2 “Windows Security” Dialog

- 3) The “Live View Setting” window will then display offering all the necessary set up tools for changing the live view reconfigurations. The functions of each of these tools are explained in the following sections.

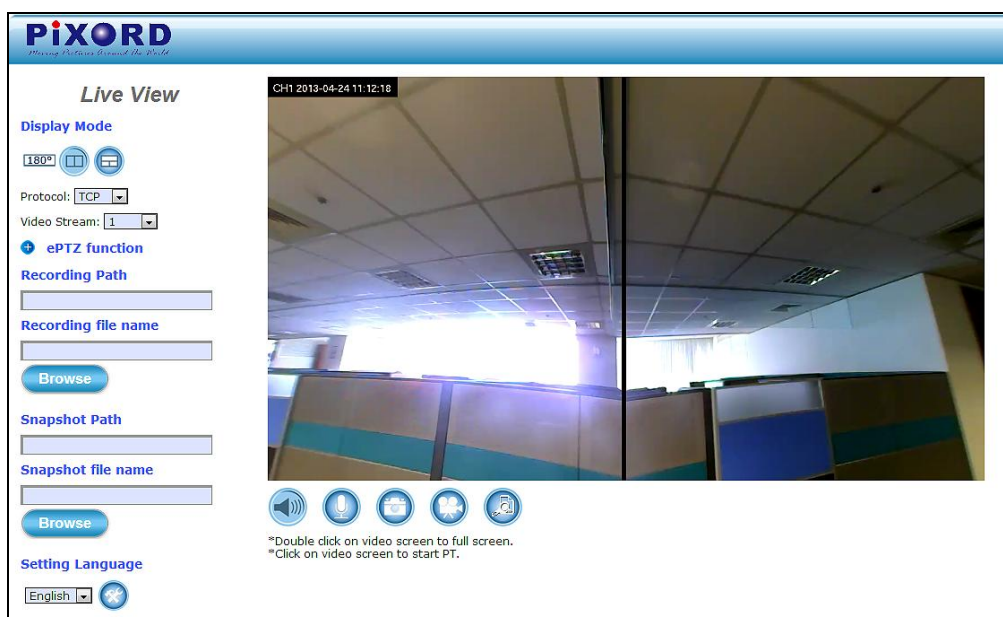







Figure 4-3 Camera “Live View Setting” Window (Twin PTZ View)

## 4.1 Quick Access Buttons

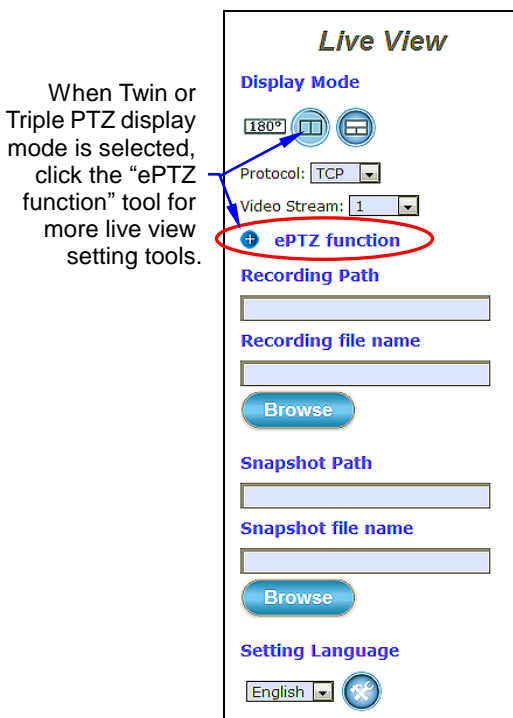
The following buttons provide the basic interactive functions between the Camera and the host computer as described below.



Figure 4-4 Camera Quick Access Toolbar Buttons

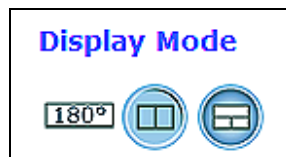
	<b>Mute:</b> Turn On/Off the host computer speaker.
	<b>Talk:</b> Click this button to talk to someone facing the network Camera from your computer. For ideal voice reception, the distance of the person on view, should be kept within 2 meters from the Camera.
	<b>Snapshot:</b> Click this button to capture still images taken from the Camera and save them in the host computer,.
	<b>Recording:</b> Click this button to record live video clips from the Camera into your computer.
	<b>Digital Zoom:</b> Digital “zoom in” & “zoom out” of a particular area of the live view. To display the whole live view into full screen, double click on the video.

## 4.2 Camera Live View UI Setting Tools



When Twin or Triple PTZ display mode is selected, click the “ePTZ function” tool for more live view setting tools.

The Live View tools (left figure) offer a variety of methods in changing the live view configurations of the Camera.

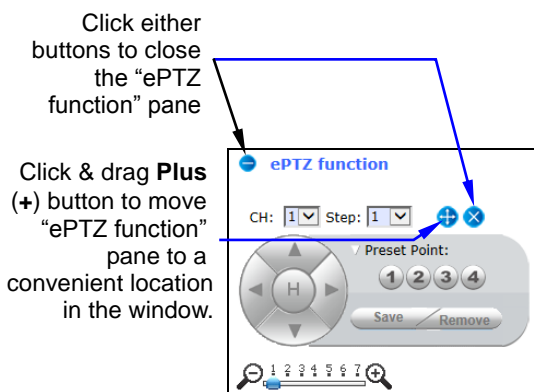


With its fisheye lens (180° wide angle panoramic view), the Camera can offer the following live view display modes:

	180 degree Ultra Wide Angle View
	Twin PTZ (pan-tilt-zoom) Views
	Triple views (1 Ultra Wide Angle View + Twin PTZ View)

When the Twin or Triple PTZ display mode is selected, click the **ePTZ function** tool to display the PTZ setting tools as shown and explained below.

Figure 4-5 Camera Live View Reconfiguration Tools



Click either buttons to close the “ePTZ function” pane

Click & drag Plus (+) button to move “ePTZ function” pane to a convenient location in the window.

Figure 4-6 ePTZ Function Tool

**CH:** Select the PTZ channel or display window (1 or 2) to implement PTZ setting.

**Step:** Adjust and set the speed of live view panning motion.

**Directional Buttons:** Use to manually pan the scene to select and zoom a specific area (1 of 4 maximum) to be monitored. To reset the scene back to its previous status, click the center **Home (H)** button. You can also directly click on the video to pan, zoom, and tilt a selected area.

**Preset Point:** After panning and zooming, assign the selected area a Preset Point (1 to 4) and click **Save** button to store the setting. The pre-defined point of view areas will be monitored in sequence. To cancel the selection, click **Remove** button.

**Zoom Slider:** Drag slider to zoom-in and zoom-out the selected scene. Zoom setting is saved with the selected pre-defined point of view area.



Protocol: TCP  
Video Stream: 1

**Protocol:** Option for TCP or UDP transmission protocol with H.264/MPEG4 streaming is available.

**Video Stream:** Two simultaneous streaming is supported for live viewing.

Recording Path  
C:\Users\piggig\Desktop  
Recording file name  
20130124  
Browse

Click **Browse** button to define Recording Path and Recording Filename for the video you are preparing to record.

**Recording Path:** Specify a storage destination path for the video you are going to record.

**Recording file name:** Define a base filename for the video recordings you are going to take. The base filename will auto-expand for each saved video recording.



To start recording, click the **Recording** button.

Snapshot Path  
C:\Users\piggig\Desktop  
Snapshot file name  
2013-0124-P  
Browse

Click **Browse** button to define Snapshot Path and Snapshot Filename for the snapshots you are preparing to capture.

**Snapshot Path:** Specify a storage destination path for the snapshot images you are preparing to capture.

**Snapshot file name:** Define base filename for the snapshots you going to capture. The base filename will auto-expand for each saved snapshot.



To start capturing snapshots, click the **Snapshot** button.

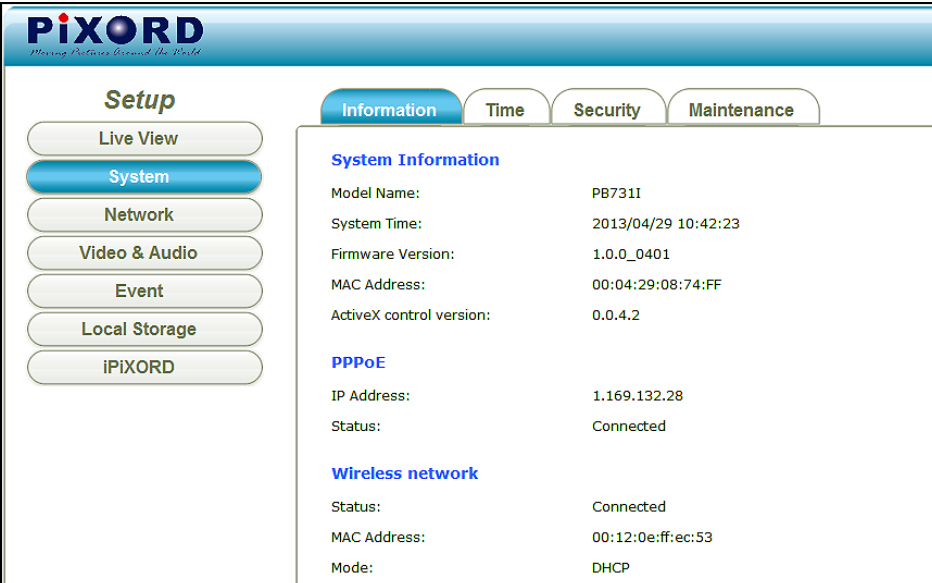
Click **Setup** button to change or update more Camera & iPIXORD settings.

Setting Language  
English

**Setting Language:** Select the default language of the user-interface.



As you get familiar with features and functions of your Camera and iPIXORD, you may want to change or update a number of its settings to further upgrade its performance. This can be accomplished by clicking the **Setup** button (indicated in the above figure). The **Setup** dialog (see following figure) will then display to provide the range of setup categories you will be able to change.



The screenshot displays the PIXORD camera's web interface. At the top left is the PIXORD logo with the tagline "Moving Pictures Around the World". Below the logo is a "Setup" menu with buttons for "Live View", "System" (highlighted in blue), "Network", "Video & Audio", "Event", "Local Storage", and "IPIXORD". To the right of the menu are four tabs: "Information" (selected), "Time", "Security", and "Maintenance". The "Information" tab shows the following details:

System Information	
Model Name:	PB731I
System Time:	2013/04/29 10:42:23
Firmware Version:	1.0.0_0401
MAC Address:	00:04:29:08:74:FF
ActiveX control version:	0.0.4.2
PPPoE	
IP Address:	1.169.132.28
Status:	Connected
Wireless network	
Status:	Connected
MAC Address:	00:12:0e:ff:ec:53
Mode:	DHCP

Figure 4-7 Camera Setup Dialog

Refer to pertinent PB731P/731I **Webpage Setting User's Guide** for details in implementing the changes for each of the indicated categories.



**PB731P / PB731I**  
**Wi-Fi Network Camera**

# Webpage Setting User's Guide

**Version 1.0**



**PIXORD Corporation**

June 2013

---

---

Trademark Acknowledgments:

**PiXORD** is a registered trademark of PiXORD Corporation.

All other trademarks used in this handbook are registered trademarks of their respective companies.

Copyright © 2013 by PiXORD Corporation

**All Rights Reserved**

Printed in Taiwan

PiXORD Corporation reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time and to discontinue any product or service without notice. Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All products are sold subject to PiXORD Corporation's terms and conditions of sale supplied at the time of order acknowledgment.

PiXORD is not responsible or liable for the resale of its products with statements different from or beyond the specification/parameters stated by PiXORD. Customers are responsible for their applications using PiXORD products. To minimize the risks associated with customer applications, customers should provide adequate operating safeguards. PiXORD is under no obligation to provide any further technical support service or product/software alteration beyond PiXORD's representation.

PiXORD products are not authorized for use in safety-critical applications where a failure of the PiXORD product would cause severe personal injury or death, unless officers of the parties have executed an agreement specifically governing such use.

Reproduction of PiXORD information or datasheets with alteration is prohibited. PiXORD is not responsible or liable for any of such altered statements.

Every care has been taken in editing this manual. If there are any inaccuracies or omissions, please inform your local PiXORD office. PiXORD Corporation cannot be held responsible for any typographical or technical errors. PiXORD Corporation is not liable or responsible for incidental or damages caused by any misinterpretation of this publication.

**PiXORD** PiXORD Corporation

Moving Pictures Around the World

---

6F, 12 Innovation 1<sup>st</sup> Road  
Hsinchu Science Park  
Hsinchu, TAIWAN 30076  
Tel: +886 3 567-8818  
Fax: +886 3 567-8990  
[marketing@pixord.com](mailto:marketing@pixord.com)

---

# Contents

<b>Contents</b>	<b>iii</b>
<b>1 Introduction</b>	<b>5</b>
1.1 Accessing Webpage Setup Dialogs .....	5
<b>2 Setup Execution</b>	<b>8</b>
2.1 System Setup Execution .....	8
2.1.1 Information Tab .....	9
2.1.2 Time Tab .....	10
2.1.3 Security Tab .....	11
2.1.4 Maintenance Tab.....	13
2.2 Network Setup Execution .....	14
2.2.1 General Tab.....	14
2.2.2 Wireless Tab .....	16
2.2.3 DDNS Tab .....	17
2.3 Video & Audio Setup Execution.....	18
2.3.1 Stream Tab .....	19
2.3.2 Video Tab.....	21
2.3.3 Audio Tab .....	23
2.3.4 Privacy Mask Tab .....	23
2.4 Event Setup Execution.....	25
2.4.1 Motion Tab .....	25
2.4.2 Video Tab.....	27
2.4.3 Snapshot Tab .....	32
2.5 Local Storage Setup Execution.....	36
2.5.1 Local Storage Tab .....	37
2.5.2 Playback Tab.....	38

Revision History

Doc. Version	Revision Description	Date
1.0	Initial Official Release	2013/06/28

# 1 Introduction

This document provides professional in depth setting arrangements for PiXORD **PB731P/731I** Cloud Wi-Fi Network Camera to meet your preferences and suit your needs.

For basic installation and setup, please refer to the pertinent “**PB731P/PB731I Getting Started Handbook**”

## 1.1 Accessing Webpage Setup Dialogs

- 1) Access the Camera live view page through your local network (or via iPIXORD). Then click the **Tool** button from the live display.

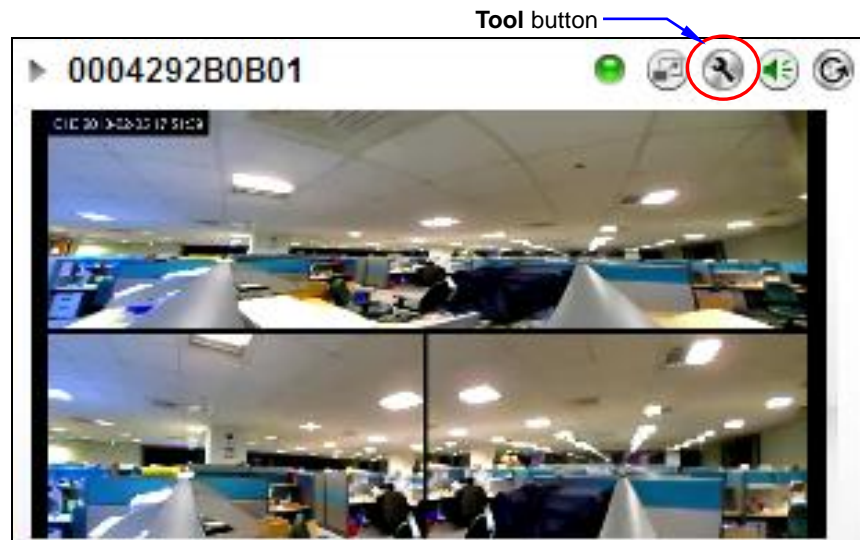


Figure 1-1 Camera Live View Configured in Triple View

### NOTE

- For first time user, there will be a prompt to install the JAVA/ActiveX control. Comply with the ActiveX installation as it is needed to view the video stream and some other operations.
- Use of Microsoft IE browser is recommended as it offers a better compatibility.

- 2) When the “Windows Security” dialog displays, enter a username and password. You may enter “admin” for both. Click **Log In** button when completed.

(Note that same Browser with different version or different vendor Browser will behave different dialog window. Below picture is belonging to IE Browser’s diagram.)

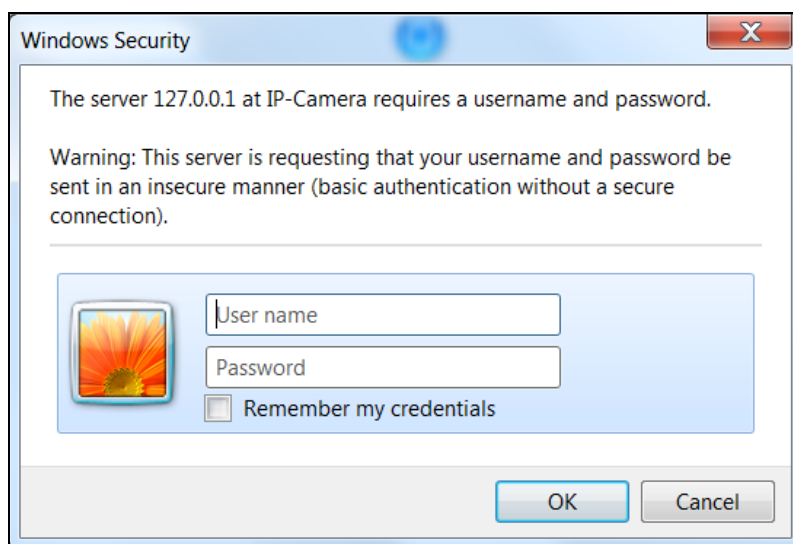
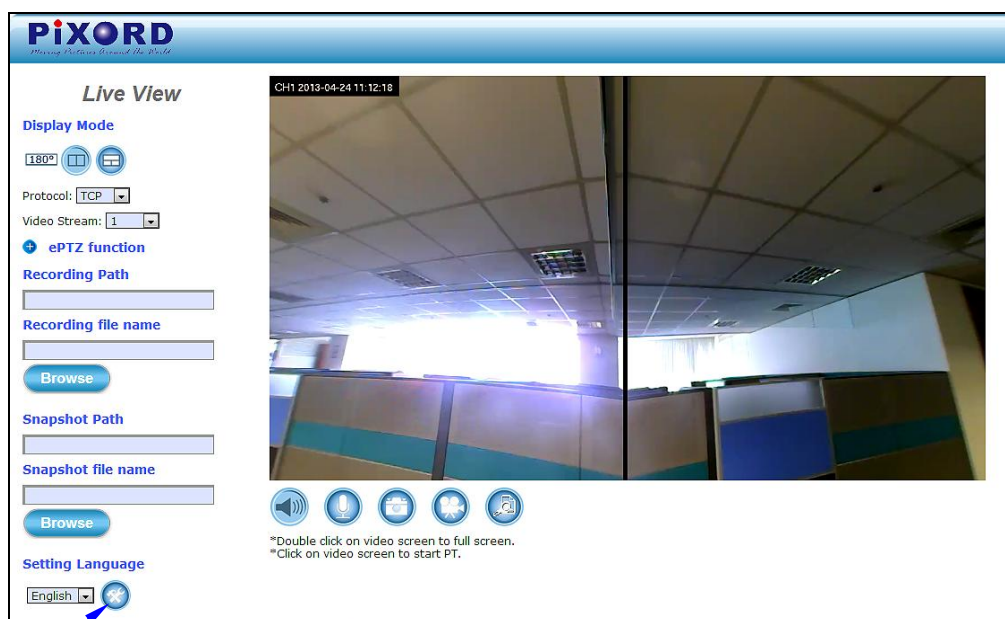


Figure 1-2 “Windows Security” Dialog

- 3) The “Live View” Setup window will then display offering all the necessary set up tools for changing the Camera live view reconfigurations (the functions for each of these “Live View” tools are explained in the pertinent “**PB731P/PB731I Getting Started Handbook**”).



Setup button

Figure 1-3 Camera “Live View Setting” Window (Twin PTZ View)





4) Click the **Setup** button to further implement the in depth settings arrangements for your Camera to meet you professional needs.

5) The **Setup** dialog (see following figure) will then display to provide the professional range of setup categories you will be able to change. The detailed steps are explained in the next chapter.

**PIXORD**  
Moving Pictures Around the World

**Setup**

- Live View
- System**
- Network
- Video & Audio
- Event
- Local Storage
- iPIXORD

Information | Time | Security | Maintenance

**System Information**

Model Name:	PB7311
System Time:	2013/04/29 10:42:23
Firmware Version:	1.0.0_0401
MAC Address:	00:04:29:08:74:FF
ActiveX control version:	0.0.4.2

**PPPoE**

IP Address:	1.169.132.28
Status:	Connected

**Wireless network**

Status:	Connected
MAC Address:	00:12:0e:ff:ec:53
Mode:	DHCP

Figure 1-4 Camera Setup Dialog

# 2 Setup Execution

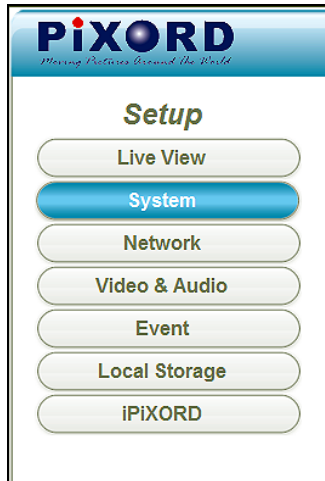


Figure 2-1 Camera Setup Selection Buttons

**NOTE**

For “Live View” setup execution, please refer to the pertinent “PB731P /PB731I Getting Started Handbook”

## 2.1 System Setup Execution



Clicking the **System** button will display the following tabbed panes relative to system configurations.

System Information	
Model Name:	PB731I
System Time:	2013/04/29 10:42:23
Firmware Version:	1.0.0_0401
MAC Address:	00:04:29:08:74:FF
ActiveX control version:	0.0.4.2
PPPoE	
IP Address:	1.169.132.28
Status:	Connected
Wireless network	
Status:	Connected
MAC Address:	00:12:0e:ff:ec:53
Mode:	DHCP

Figure 2-2 “System Setup” Tabbed Panes

## 2.1.1 Information Tab

Information	Time	Security	Maintenance
<b>System Information</b>			
Model Name:	PB731I		
System Time:	2013/06/27 16:46:35		
Firmware Version:	1.0.0_0430		
MAC Address:	00:04:29:2a:4d:01		
ActiveX control version:	0.0.5.3		
<b>Wired network</b>			
Status:	Connected		
Mode:	DHCP		
IP Address:	192.168.33.57		
Subnet Mask:	255.255.255.0		
Gateway:	192.168.33.1		
Primary DNS:	192.168.33.1		
Secondary DNS:	0.0.0.0		
<b>Wireless network</b>			
Status:	No connection		
MAC Address:	00:12:0e:ff:eb:67		
Mode:	DHCP		
IP Address:	0.0.0.0		
Netmask:	0.0.0.0		
Gateway:	0.0.0.0		
<b>DDNS Server</b>			
Status:	No connection		

Figure 2-3 "Information" Tabbed Pane

The **Information** tabbed pane provides the existing system status of the Camera which includes Model Name, System Time, Firmware Version, MAC Address, ActiveX Control Version, Wired Network, Wireless Network and DDNS Server Status.

## 2.1.2 Time Tab

The screenshot shows the 'Time' tabbed pane with the following settings:

- System Time:** 2013/01/18 15:40:17
- System Time settings:**
  - Time Zone:** GMT+08:00 Beijing, Chongqing, Hong Kong, Kuala Lumpur, Singapore, Taipei, Krasnoyarsk
  - Automatic:**  (Selected:  Synchronize with computer time)
  - NTP server:** time.stdtime.gov.tw
  - Keep current date and time:**
  - Set Manually:** 
    - Date:** 2013/01/18 Time: 15:40:14
    - Assign value:**
      - Date:** 2013/01/18 (yyyy/mm/dd)
      - Time:** 15 : 39 : 55 (hh:mm:ss)
  - Enable Daylight Saving:** 
    - Offset:** +1 hrs
    - Start time:**
      - Month: 8
      - Week: 1
      - Day of week: sunday
      - Hour: 0
      - Minute: 0
    - End time:**
      - Month: 10
      - Week: 1
      - Day of week: sunday
      - Hour: 0
      - Minute: 0

Figure 2-4 "Time" Tabbed Pane

The **Time** tabbed pane is where you set up the clock of your Camera to synchronize with your local time. Where:

**System Time:** The Network Camera current date and time is applied and displayed here based on the setup status of the System Time Settings as detailed below.

**Time Zone:** Select the applicable Time Zone of your city in reference to Greenwich Mean Time.

**Automatic:** Select this item if you want to automatically synchronize the Camera clock with that of Network Time Protocol (NTP) Server.

**Keep current date and time setting:** Select this option in lieu of automatic synchronization if the Camera is not connected to NTP Server and uses its own embedded clock.

**Set Manually:**

Ⓒ **Synchronize with the PC Time:** Select this option to manually synchronize the Network Camera clock (date and time) with that of the local host computer.

Ⓒ **Assign value:** Select this option to enter the date and time manually.

**Enable Daylight Saving:** Select this option only when applicable at your location. Two setup settings; the **Start time** and **End time** are needed to implement the feature.



After setups are completed, click **Save** button to apply the settings.

**2.1.3 Security Tab**

This is a permanent default setting and cannot be removed nor changed. Hence, new User Name/Group settings are only added below the default setting

Click **Add** button to access and change the security setting status

User Name	User Group
admin	Administrator

Figure 2-5 "Security" Tabbed Pane

The **Security** tabbed pane allows you to add new Camera User Name and change Password and the surveillance status or User Group. Click the **ADD** button to access the security setup dialog (shown below).

User Setup

User Name:

Password:   Show Password

Confirm Password:

User Group:

Administrator

Operator

Viewer

Note:

1. A user name and password must contain at least one character.
2. Max 14 characters are allowed in user names.
3. The first character in user name must be A-Z or a-z.
4. Only A-Z, a-z and 0-9 are allowed in the user name and password.
5. Max eight characters are allowed in the password.
6. The maximum number of users is 20.
7. The 'admin' user is default user and cannot be deleted.

Figure 2-6 “Security” Setup Dialog

Where:

**User Name:** Enter the new user name to be added into the list (see Note 4 of dialog for proper entry).

**Password:** Enter the new password (see Note 4 of dialog for proper entry).

**Confirm password:** Enter the password again for authentication (encoded display).

**Show Password:** Displays the decoded password when check box is enabled.

**User Group:** Three group options are available, namely:

- Ⓒ **Administrator:** User is allowed to change Camera settings and perform all Camera functions.
- Ⓒ **Operator:** User is allowed to login “Live View” Webpage and perform all functions within this page. Except changing Video and Audio settings of Camera live stream, other adjustments of Camera parameter are prohibited.
- Ⓒ **Viewer:** User is only allowed to login “Live View” Webpage and perform all functions within this page. Changing Camera settings is prohibited.



After setups are completed, click **Save** button to apply the settings.

## 2.1.4 Maintenance Tab

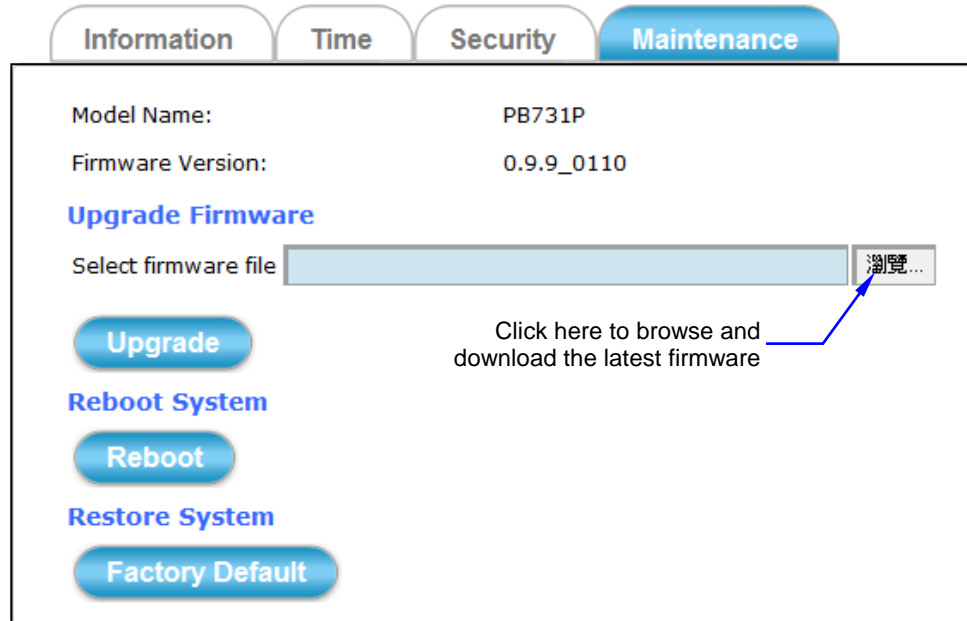


Figure 2-7 “Maintenance” Tabbed Pane

The **Maintenance** tabbed pane allows you to upgrade the firmware with the latest version and to restore the Network Camera settings to factory default. Where:

**Select firmware file:** Download the latest firmware file from the PiXORD website by executing the following steps:

- 1) Click the **Browse** button to access and select the appropriate firmware file from its folder.
- 2) Click the **Upgrade** button. The Network Camera will then start to upgrade the existing firmware. When upgrade is completed, the Camera will reboot automatically.



**Reboot System:**

Clicking the **Reboot** button allows you to manually reboot the Network Camera.

**Restore System:**



Clicking the **Factory Default** button will restore the Network Camera to its factory default settings status. Before Camera system proceed to restore step, there'll be a dialog window popped and then ask if you would like to let the following three settings remain current:

- Ⓒ Network setting
- Ⓒ Username/Password
- Ⓒ System clock (time & date)

## 2.2 Network Setup Execution



Clicking the **Network** button will display the following tabbed panes on configuring Camera connection with the network.

A screenshot of a web-based configuration interface. At the top, there are three tabs: "General" (highlighted in blue), "Wireless", and "DDNS". Below the tabs is a main content area titled "Network Settings" in blue. Under "Network Settings", there are three radio button options: "DHCP" (selected), "Fixed IP Address", and "PPPoE". Below this is a section titled "Port Settings" in blue. It contains two input fields: "HTTP Port:" with the value "80" and "RTSP Port:" with the value "554". At the bottom of the form is a blue "Save" button.

Figure 2-8 "Network Setup" Tabbed Panes

### 2.2.1 General Tab

The **General** tabbed pane (shown above) allows you to redefine the network and port protocol settings of the Network Camera.

Where:

#### Network Settings:

- Ⓒ **DHCP:** This option obtains the available dynamic IP address assigned by the DHCP server each time the Camera is connected to the network.
- Ⓒ **Fixed IP Address:** This option manually assigns a static IP address to the Network Camera.
- Ⓒ **PPPoE:** Select this option to set PPPoE account & password.



● PPPoE  
 PPPoE User Name:   
 PPPoE Password:   
 Recipient E-mail Address:  (ex: rcpt@mail.com )  
 SMTP E-mail Server:  (ex: mail.examples.com or 192.168.1.1 )  
 SMTP Port:  (0..65535)  
 SMTP user name:   
 SMTP Password:   
 Sender E-mail Address:  (ex: from@mail.com )  
 Use SSL-TLS:

While PPPoE protocol is selected, you may have to enter some more information such as the above picture.

While Camera IP is changed dynamically because of PPPoE Network Connection, its new IP Address will be sent to “Sender E-mail Address” through SMTP service. So you won’t worry about the difficulty in Camera’s Webpage access.

※ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ◦ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

### Port Settings:

Ⓒ **HTTP Port:** Re-define the existing HTTP Port number in the text box.

Ⓒ **RTSP Port:** Re-define the existing RTSP Port number in the text box.



After setups are completed, click **Save** button to apply the settings.

## 2.2.2 Wireless Tab

General **Wireless** DDNS

### Status of Wireless Networks

SSID	Mode	Security	Signal strength
WIFI_615	Infrastructure	WPA2-PSK	96
QE-TEST	Infrastructure	WPA2-PSK	87
Wireless-Pixord	Infrastructure	WPA2-PSK	75
NeverGiveUp	Infrastructure	WPA2-PSK	66
demo-site	Infrastructure	WEP	46
HPE910.5B999D	Adhoc	NONE	59
	Infrastructure	NONE	89
	Infrastructure	NONE	88
PiXORD_0401	Infrastructure	NONE	88
	Infrastructure	NONE	84

Refresh

### Wireless Settings

Wireless Connection:  Enabled  Disabled

MAC Address: 00:12:0e:ff:ec:5d

IP Setting Mode:  DHCP Service  Static IP Address

IP Address: 0.0.0.0

Netmask: 0.0.0.0

Gateway: 0.0.0.0

Mode: Infrastructure

Operation Mode: Auto

SSID: WIFI\_615

Security: WPA2-PSK

Show Key

### WPA-PSK Setting

Encryption: AES

Pre-Shared Key: ..... (ASCII format, 8~63 words)

Connect

Figure 2-9 "Wireless" Tabbed Pane

The **Wireless** tabbed pane provides search and display of available wireless networks from which you can select the most suitable one for your Camera. Where:

**Status of Wireless Networks:** Displays the list of wireless networks (Access Points) currently available; grouped under SSID, Mode, Security, and Signal Strength categories. Click the **Refresh** button to refresh the list for possible additional list of wireless networks not previously available.



**Wireless Setting:** Defines the configurations to enable the Camera to connect to the selected wireless network. Clients in the same network group are able to access to this Camera through wireless connection.

**WPA-PSK Setting:** Defines the Wi-Fi Protected Access setting in Pre-Shared Key mode relative to the selected wireless network.



After setups are completed, click **Connect** button to get connected with the selected wireless network.

## 2.2.3 DDNS Tab

Enabled check box to display password in decoded format

Figure 2-10 "DDNS" Tabbed Pane

The **DDNS** tabbed pane allows you to configure the Dynamic Domain Name System of your network device with a host name instead of the IP Address.

Where:

**DDNS Enable:** Enable the check box to support DDNS function.

**Host Name:** Enter the Host name which you registered and got through DNS Service Provider. The assigned host name is used to access the network device instead of IP Address.

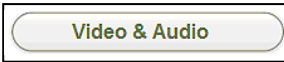
**User Name/Password:** Account authentication for logging into the website of DNS Service Provider.

**Update Time:** Define a time interval for the device to periodically update and check its access status with website of DNS Service Provider.



After setups are completed, click **Save** button to apply the settings.

## 2.3 Video & Audio Setup Execution



Clicking the **Video & Audio** button will display the following tabbed panes for defining Camera streaming, video, and audio functions.

The screenshot shows a web interface with four tabs: Stream, Video, Audio, and Privacy Mask. The 'Video' tab is active, displaying 'Video quality settings for stream 1', 'stream 2', and 'stream 3'. Each stream has a set of configuration options:

- Stream 1:** Connection template: Customized; Mode: H264; Frame Size: 1920x1920; Maximum Frame Rate: 15 FPS; Streaming Mode: VBR; Quality: Good; Intra frame period: 25; Text Overlay: checked; Text Field: CH1; Time Stamp: checked; RTSP Port Access Name: Ivet\_sdp.
- Stream 2:** Connection template: Customized; Mode: H264; Frame Size: 800x600; Maximum Frame Rate: 15 FPS; Streaming Mode: VBR; Quality: Detailed; Intra frame period: 15; Text Overlay: checked; Text Field: CH2; Time Stamp: checked; RTSP Port Access Name: Ivs2\_sdp.
- Stream 3:** Connection template: Customized; Mode: H264; Frame Size: 1280x1024; Maximum Frame Rate: 10 FPS; Streaming Mode: VBR; Quality: Good; Intra frame period: 10; Text Overlay: checked; Text Field: CH3; Time Stamp: checked; RTSP Port Access Name: Ivs5\_sdp.

A 'Save' button is located at the bottom left of the settings area.

Figure 2-11 "Video & Audio" Tabbed Panes

## 2.3.1 Stream Tab

The **Stream** tabbed pane (see above figure) provides the adjustments for the video quality of the Camera streaming function. The pane offers the following three modes of video quality setting:

**Video quality settings for stream 1:** This is the primary quality setting for live view streaming.

**Video quality settings for stream 2:** This is the secondary quality setting for live view streaming.

**Video quality settings for stream 3 (Mobile browser view only):** This setting is geared for Mobile phone use.

### NOTE

*If the “Video Event Alarm Setting by Video” (see Section 2.4.2) is enabled, an alert message will display requiring you to disable the feature first before proceeding to change the Streaming settings. Otherwise, adjustments to video quality streaming settings **cannot** be accomplished.*

The quality setting items on this pane are as follows:

**Connection template:** Four option modes are available; “Fast,” “General,” “Low,” and “Customized” modes.

**Mode:** Three modes of encoding options are offered; “H264,” “MPEG4,” and “MJPEG.”

**Frame Size:** Three 3 types of streamed frame resolutions are available to selection; “1280x720,” “640x360,” and “320x180.”

**Maximum Frame Rate:** Available rate options are; 5, 8, 10, 15, 20, 25, & 30 frames per second (FPS).

**Steaming Mode:** Two choices of streaming modes are offered; “VBR (variable bit rate)” and “CBR (constant bit rate).”

**Quality:** The options for streaming mode quality are expressed differently between VBR and CBR:

© **VBR:** Standard, Good, & Detailed

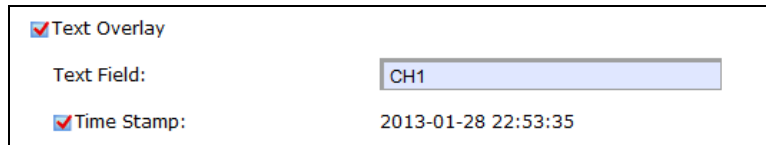
© **CBR:** 64Kbps, 128 Kbps, 256 Kbps, 384 Kbps, 512 Kbps, 768 Kbps, 1M Kbps, 1.5M Kbps

**Intra frame period:** Available choices are; 5, 8, 10, 15, 20, 25, 30, 40, 50 & 60 frames per period. This function will let you choose how long distance between two I-Frames.

Lager value means longer distance between two I-Frames and this selection is suitable for the stable Network Bandwidth

Environment; so we suggest the smaller value selection is proper to the worse Network Bandwidth Environment.

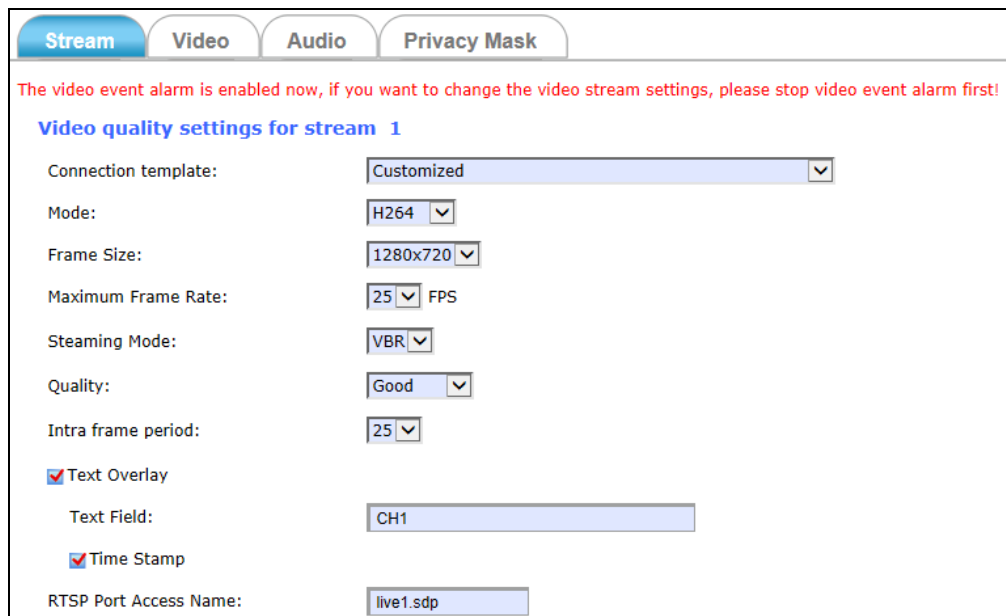
**Text Overlay:** When enabled, each streamed frame will be overlaid with the Camera ID (text field) and stamped with date/time (if enabled) as illustrated below.



<input checked="" type="checkbox"/> Text Overlay	
Text Field:	CH1
<input checked="" type="checkbox"/> Time Stamp:	2013-01-28 22:53:35

Figure 2-12 Text Overlay Setting Example

**RTSP Port Access Name:** When RTSP or VLC media-player is used, the port can be renamed with easy to remember pathname. For example: the default RTSP Port Access Name is live1.sdp ; it means your playback stream name would be “RTSP://camera’s IP address/live1.sdp”



The video event alarm is enabled now, if you want to change the video stream settings, please stop video event alarm first!

**Video quality settings for stream 1**


Connection template:	Customized
Mode:	H264
Frame Size:	1280x720
Maximum Frame Rate:	25 FPS
Steaming Mode:	VBR
Quality:	Good
Intra frame period:	25
<input checked="" type="checkbox"/> Text Overlay	
Text Field:	CH1
<input checked="" type="checkbox"/> Time Stamp	
RTSP Port Access Name:	live1.sdp



After setups are completed, click **Save** button to implement the settings.

## 2.3.2 Video Tab

Stream
Video
Audio
Privacy Mask



### Video Settings

Brightness:  80 (0~255)

Saturation:  125 (0~255)

Contrast:  4 (-128~127)

Color/Mono Mode:  Auto  Color  Mono

Day / Night Threshold:  10 (5~100)

Power Line Frequency:  50 Hz  60 Hz

Video Orientation:  Flip  Mirror

LED Status:  On  Off

Figure 2-13 “Video” Tabbed Pane

The **Video** tabbed pane lets you to perform live adjustments and improvement of the Camera captured video effect relative to the target environment. If you experienced difficulty in implementing the adjustment parameters, it is recommended that you use the default setting by pressing the **Reset** button (see figure below) at the back of the Camera.

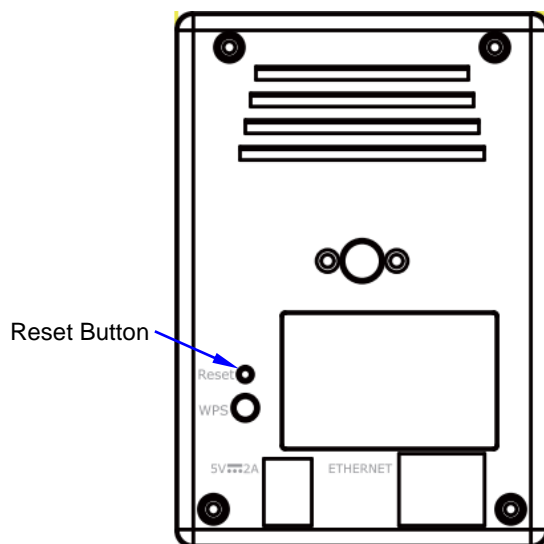


Figure 2-14 Reset Button at the Back of Camera

**NOTE**

*Pressing the Reset button will also return all other new settings to its default status.*

Where:

**Brightness:** The luminance of the captured image apart from its hue or saturation.

**Saturation:** The degree of intensity and purity of a specific color.

**Contrast:** The brightness ratio of the lightest to the darkest part of the video image.

**Day/Night Threshold:** Set the illumination lux value (5 ~ 100) to auto-trigger the Camera into “day” or “night” mode relative to luminance of the area under surveillance. When the environment luminance becomes higher than the set lux value, the Camera will auto switch to “day” or “color” mode. Otherwise, it will remain at “night” or “mono” mode.



### 2.3.3 Audio Tab

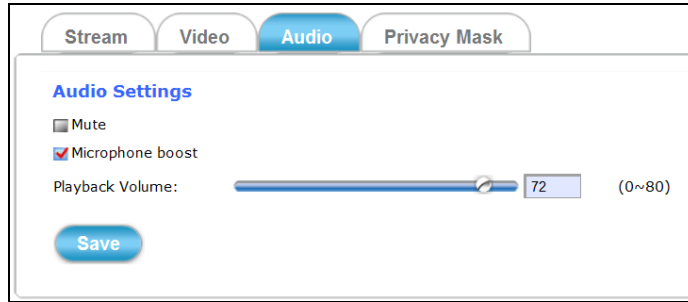


Figure 2-15 "Audio" Tabbed Pane

The **Audio** tabbed pane provides the following audio adjustments to your Camera microphone and speaker:

- Mute:** Enable or disable mute function of the Camera microphone.
- Microphone boost:** Enable or disable booster function of the Camera microphone. Enable this function will amplify the signal from the microphone jack.
- Playback Volume:** Adjust the Camera speaker volume by moving the slider to the left to decrease and to the right to increase the volume.



After setups are completed, click **Save** button to implement the settings.

### 2.3.4 Privacy Mask Tab

3) Enable the check box

2) Lay out masking screens on the areas to be blocked from surveillance

1) Select a masking shape to block the private area you wish to obstruct from surveillance

4) Click **Save** button

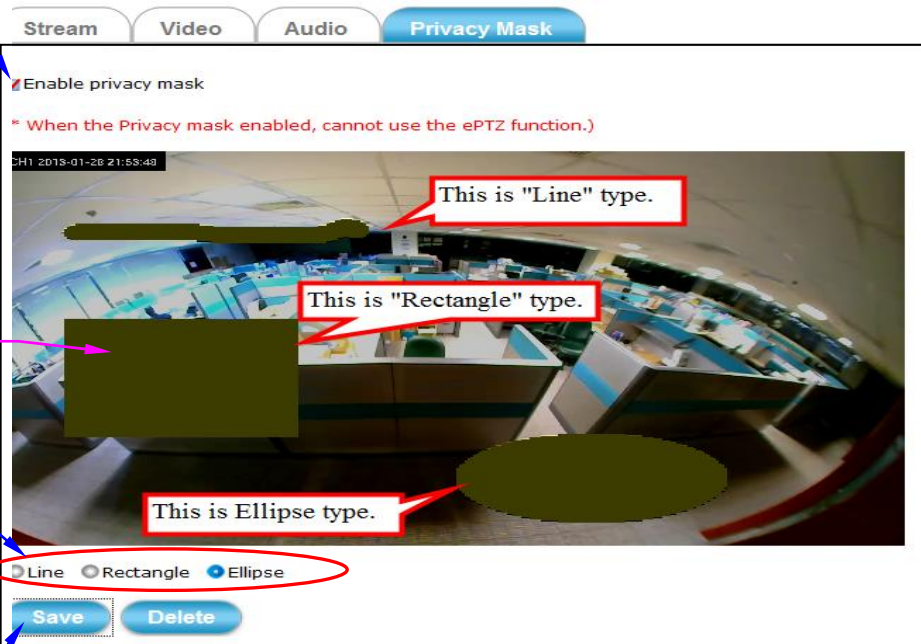


Figure 2-16 "Privacy Mask" Tabbed Pane

The **Privacy Mask** tabbed pane allows you to mask or block private areas from surveillance for privacy reason.

■ To block a private area from surveillance, follow the procedure below:

- 1) Initially select the masking shape, e.g., “Line,” “Rectangle,” or “Ellipse” (see figure above) you wish to use as screen to block the area from surveillance.
- 2) Click and drag the mouse cursor to lay out a masking screen on the area you wish to block, and then release the mouse right button. Notice that the laid out screen turns into phantom block.
- 3) If the laid out screen needs correction, click **Delete** button and redo the masking screen lay out process.
- 4) Once the masking screen is acceptable, click the **Enable Privacy Mask** check box followed by clicking of the **Save** button. This will turn the laid out screen into solid block.



■ To disable masking and remove the screen, do the following:

- 1) Click **Delete** button.
- 2) Click **Save** button and wait a while. Then the screen is permanently removed.

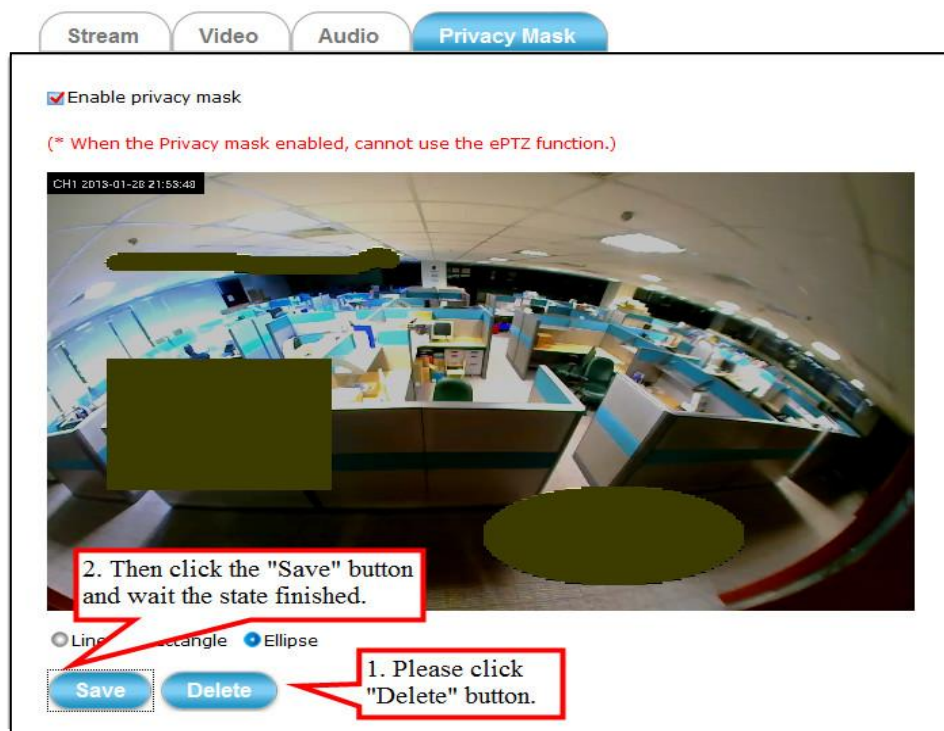


Figure 2-17 Removing “Privacy Mask” Screen from Camera

- 3) To permanently disable the **Privacy Mask** function, disable the **Enable Privacy Mask** check box

## 2.4 Event Setup Execution



Clicking the **Event** button will display the tabbed panes (see figure below) for defining event recording of the Camera. The PB731 is equipped with a card slot for Micro-SD/SDHC memory card.

This storage card is utilized to store recording of local video and still JPEG images taken in response to set events. The recording operation of events is triggered according to the defined schedules.

### 2.4.1 Motion Tab

From the **Motion** tabbed pane, you can define specific target areas within the scope of surveillance to focus the motion detection function.

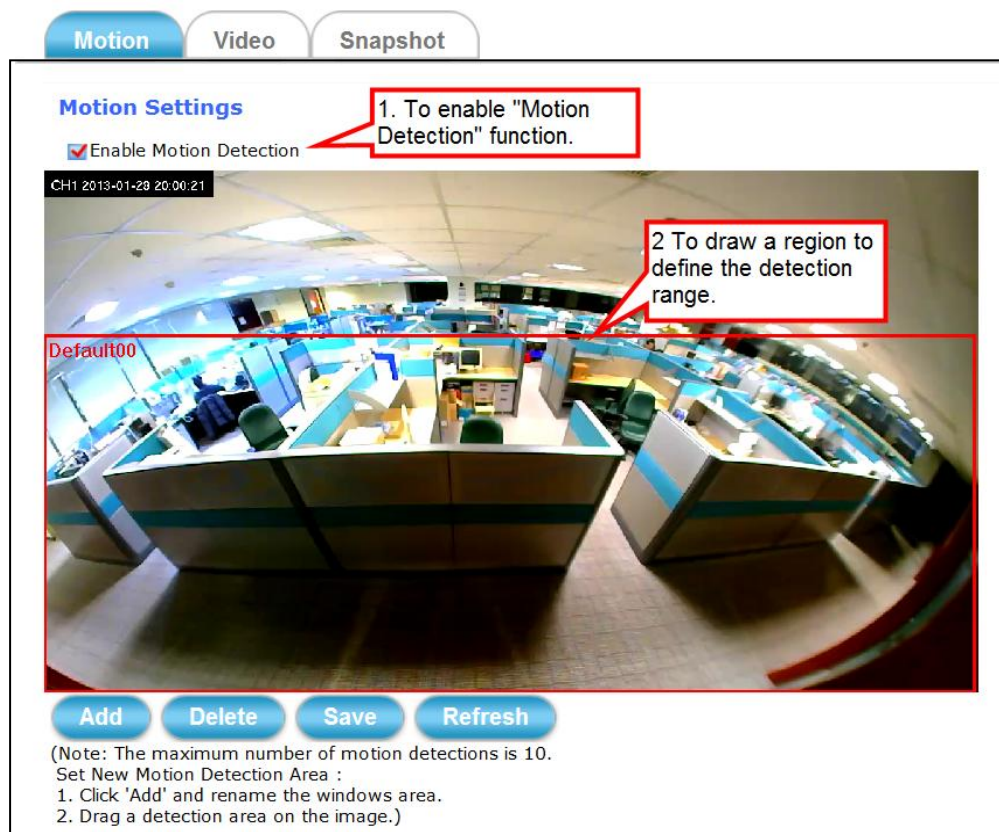


Figure 2-18 Defining a Single Motion Detection Area for the Camera

#### ■ Defining a single motion detection area:



- 1) Enable the **Enable Motion Detection** check box.
- 2) Click **Add** button and a default frame will pop-up on the screen.
- 3) Click and hold inside the frame to drag it to the location where you want to focus detection. Resize the frame by dragging its corners or borders.



- 4) Click the **Save** button to apply.

■ Defining multiple motion detection areas:



- 1) After satisfactory positioning of the first detection area as described above, click the **Add** button again. A second default frame will pop-up on the screen. Drag & resize the frame at the desired location.
- 2) Repeat the above step to add more detection area frames.

**NOTE**  
Total defined motion detection areas cannot exceed 10 frames.

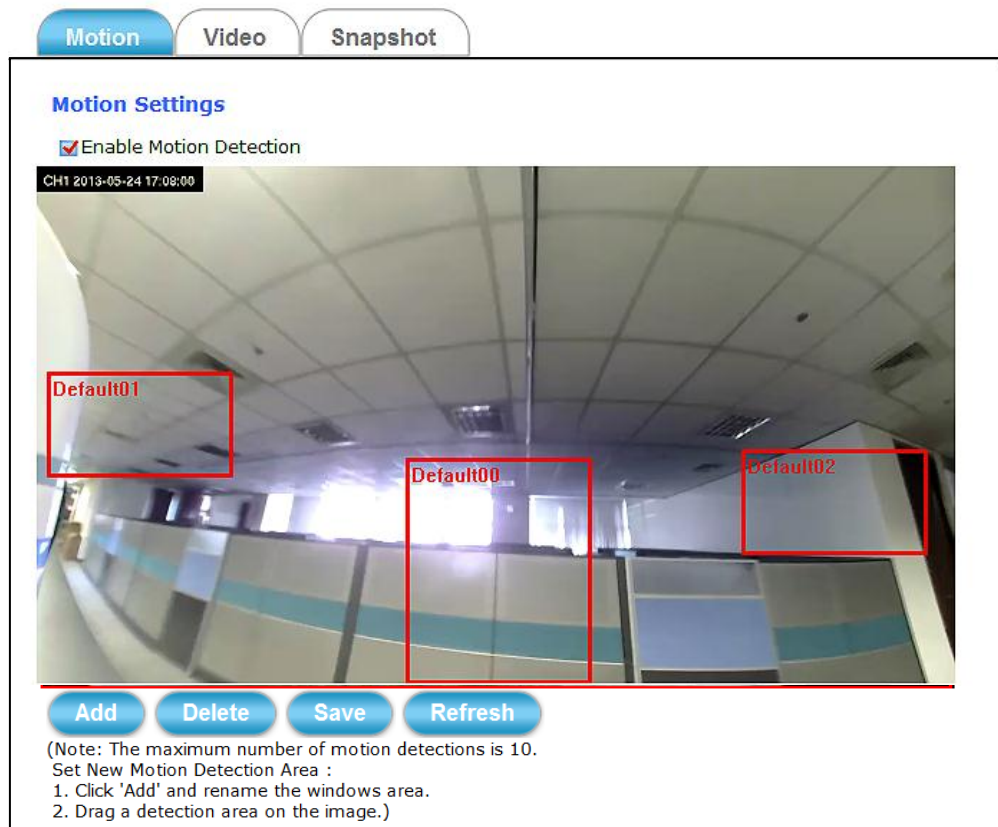


Figure 2-19 Defining Multiple Motion Detection Areas for the Camera

- 3) To assign unique names to each framed location for easy identification, click on the frame and a **Window Name** text box with the default name of the selected frame, will appear at the bottom of the pane (see figure below). Enter a new name and click the **Save** button. Wait for a while for the change to take effect.

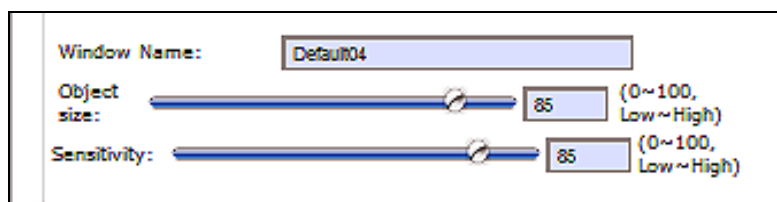
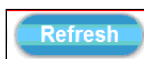


Figure 2-20 Detection Frame "Window Name" Textbox



- 4) To delete a frame that is no longer needed but was previously saved, click on the unwanted frame and click **Delete** button. The frame will disappear after a while.



- 5) To delete multiple frames that are not yet saved, directly click the **Refresh** button instead of deleting them individually. The **Refresh** button will automatically clear all unsaved frames.

## 2.4.2 Video Tab

The Video tabbed pane sets the video recording trigger method to use when motion is detected by the Camera. The four methods available for selection are Period, Schedule, Motion, and PIR (passive infrared), each of which can be set up with user scheduled recording time and duration, as well as defining the video record file target destination.

- ※ Only the cameras enable Motion/PIR video recording trigger and bind into iPIXORD Cloud Service with Google account, the recorded video files in the SD Memory Card will be uploaded and backed-up to your Google Drive synchronously.

- **Period:** This method will trigger the Camera video surveillance/recording operation for a defined duration (in seconds) whenever motion is detected. The video record may be sent to host by E-mail or stored in the SD card as selected.

The screenshot shows a web interface for configuring video alarm settings. At the top, there are three tabs: 'Motion', 'Video' (which is highlighted in blue), and 'Snapshot'. Below the tabs, the title 'Event Alarm Settings by Video' is displayed in blue. The settings are as follows:

- Video Clip:** A checkbox with a red checkmark is checked.
- Trigger by:** A dropdown menu is set to 'Period'.
- Video Clip Type:** This section contains two settings:
  - Maximum duration:** A dropdown menu is set to '5' followed by the text 'Seconds'.
  - Time Lapse:** A dropdown menu is set to '10' followed by the text 'Seconds'.
- Target to:** This section contains two checkboxes:
  - E-mail / FTP:** An unchecked checkbox.
  - SD card:** A checked checkbox with a red checkmark.

At the bottom of the form is a blue 'Save' button.

Figure 2-21 Video Recording with "Period" Method Selected

- Schedule:** This method activates the Camera video surveillance/recording operation continuously when the defined days of the week and set time of the set days are met. Motion is ignored with this method. Each recording time-span is in accordance with the set duration (in seconds) and the video record is stored in the SD card.

Motion   Video   Snapshot

### Event Alarm Settings by Video

Video Clip

**Trigger by:** Schedule

Day:

Sun  MON  Tue  WED  Thu  FRI  Sat

Time:

Start 00 : 00 (hh:mm)   End 24 : 00 (hh:mm)

**Video Clip Type:**

Maximum duration: 60 Seconds

**Target to:**

60  
 120  
 180  
 240  
 300

SD Card

Save

Figure 2-22 Video Recording with “Schedule” Method Selected

- Motion:** This method will trigger the Camera video surveillance/recording operation according to the set duration (in seconds) whenever motion is detected within the defined days of the week and at the time of the set days. The video record may be sent to host by E-mail or stored in the SD card as selected

**Event Alarm Settings by Video**

Video Clip

Trigger by: Motion

Only during

Day:

Sun  MON  Tue  WED  Thu  FRI  Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

**Video Clip Type:**

Maximum duration: 5 Seconds

Target to:

E-mail / FTP

SD card

Save

Figure 2-23 Video Recording with "Motion" Method Selected



- PIR:** On the defined days of the week and at certain time of the set days, the Camera will trigger its PIR operation when it senses abrupt changes in temperature or detects motion. Recording duration can be set in seconds and the video record may be sent to host by E-mail or stored in the SD card.

**NOTE**

*The Passive Infrared Sensor feature is available only with PB731P Camera.*

Motion Video Snapshot

### Event Alarm Settings by Video

Video Clip

**Trigger by:** PIR

Only during

Day:

Sun  MON  Tue  WED  Thu  FRI  Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

**Video Clip Type:**

Maximum duration: 5 Seconds

**Target to:**

E-mail / FTP

SD card

Save

Figure 2-24 Video Recording with “PIR” Method Selected

### 2.4.3 Snapshot Tab

The Snapshot tabbed pane sets the Camera to take snapshot images when motion is detected. The four methods available for selection are Always, Schedule, Motion, and PIR (passive infrared), each of which can be set up with user scheduled recoding time and duration, as well as defining the video record file target destination.

- **Always:** Under this method, the Camera automatically continuous to capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, or stored in the SD card as preferred.

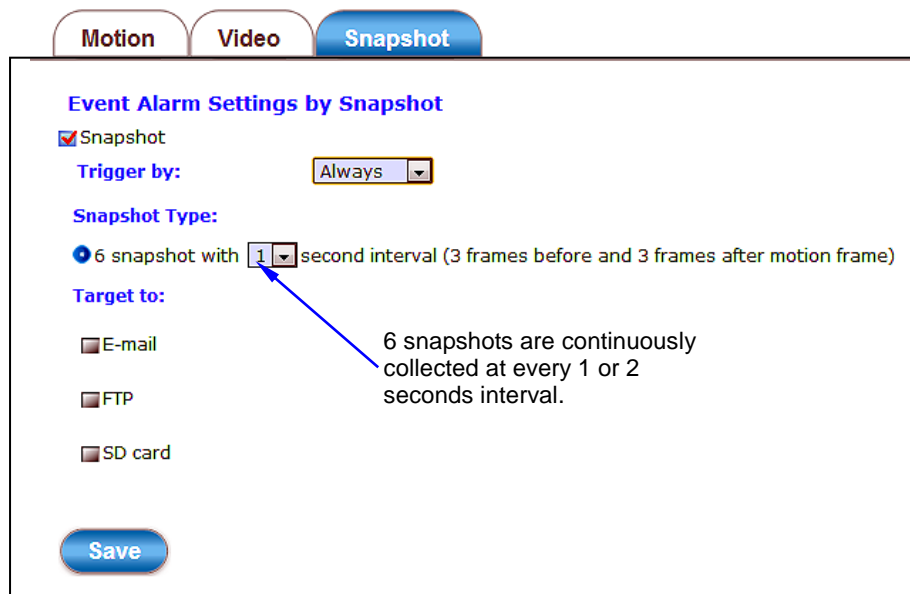


Figure 2-25 Snapshot Recording with “Always” Method Selected

- Schedule:** This method activates the Camera snapshot operation continuously when the defined days of the week and set time of the set days are met. The Camera will continuously capture 6 snapshots of the area under surveillance at every 1 or 2 seconds interval. 3 previous snapshot frames are collected from the Camera buffer and 3 snapshot frames are captured live. The stream of accumulated snapshots may be sent to host by E-mail, FTP, or stored in the SD card as preferred.

Motion Video Snapshot

**Event Alarm Settings by Snapshot**

Snapshot

**Trigger by:** Schedule

Day:

Sun  MON  Tue  WED  Thu  FRI  Sat

Time:

Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

**Snapshot Type:**

6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

**Target to:**

E-mail

FTP

SD card

Save

Figure 2-26 Snapshot Recording with "Schedule" Method Selected

- **Motion:** This method will trigger the Camera snapshot operation according to the set time interval (in seconds) whenever motion is detected within the defined days of the week and at the time of the set days. Single or 6 snapshots may be captured as defined. The stream of accumulated snapshots may be sent to host by E-mail, FTP, or stored in the SD card as preferred.

**Event Alarm Settings by Snapshot**

Snapshot

Trigger by: Motion

Only during

Day:  Sun  MON  Tue  WED  Thu  FRI  Sat

Time: Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

**Snapshot Type:**

Interval: 3 ( minimum is 3 seconds )

Single snapshot

6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

**Target to:**

E-mail

FTP

SD card

Save

Figure 2-27 Snapshot Recording with "Motion" Method Selected

- PIR:** On the defined days of the week and at certain time of the set days, the Camera will trigger its PIR operation according to the set time interval (in seconds) when it senses abrupt changes in temperature or detects motion. Single or 6 snapshots may be captured at a time as defined.

**NOTE**

*The Passive Infrared (PIR) Sensor feature is available only with PB731P Camera.*

**Event Alarm Settings by Snapshot**

Snapshot

Trigger by: PIR

Only during

Day:  Sun  MON  Tue  WED  Thu  FRI  Sat

Time: Start 00 : 00 (hh:mm) End 24 : 00 (hh:mm)

**Snapshot Type:**

Interval: 3 ( minimum is 3 seconds )

Single snapshot

6 snapshot with 1 second interval (3 frames before and 3 frames after motion frame)

**Target to:**

E-mail

FTP

SD card

**Save**

Figure 2-28 Snapshot Recording with “PIR” Method Selected

The stream of accumulated snapshots may be sent to host through E-mail, FTP, or stored in the SD card per selection or through all 3 available methods. When selected, the setup dialog for these methods will display is illustrated in the following figure.

**Target to:**

E-mail

Recipient E-mail Address:  (ex: rcpt@mail.com )

SMTP E-mail Server:  (ex: mail.examples.com or 192.168.1.1 )

Port:  (0..65535)

User Name:

Password:

Sender E-mail Address:  (ex: from@mail.com )

Interval:  ( 30~3600 Seconds)

Use SSL-TLS:  (None, SSL-TLS, STARTTLS)

FTP

FTP Server:  (ex: ftp.domain.com or 192.168.1.1)

FTP Server Port:  (0..65535)

User Name:

Password:

Path:  (ex: \ftp\upload )

Filename Prefix:  (ex: event )

Interval:  ( 10~3600 Seconds)

SD card

Here refers the mailbox encryption mode, if you are unsure, ask your mailbox customer service staff.

Make sure the FTP folder load mode, if you are not sure, then ask the FTP software technical support.

Figure 2-29 Transmitting Snapshots to Host Setup with “E-mail” & “FTP” Selected

※ As for the settings of SMTP Service, kindly please contact with your E-mail service provider ◦ After you confirm all parameters are correct and working properly, you may enter them into the text area manually.

※ As for the settings of FTP Service, kindly please contact with your FTP service provider ◦ While all parameters filled in Windows FTP Transferring Utility are correct and working properly under your Laptop or other PC, you may enter them into the text area manually.

## 2.5 Local Storage Setup Execution



Clicking the **Local Storage** button will display the following tabbed panes to provide information on existing local storage, such as disk size info, type, and status. If recording is in progress when clicking the **Local**

**Storage** button, a warning message will occur.

**NOTE**

*Do NOT remove the micro SD card while Camera is in recording process.*

## 2.5.1 Local Storage Tab

The **Local Storage** tabbed pane displays the SD card status. It shows the SD card total capacity (Total size), available memory (Free size), used memory (Used size) and used memory ratio (Use(%)). It also displays the current Camera operation condition (Recording status) and provides “SD card control” option where user can select to allow the Camera to auto-overwrite earlier files in order to maintain the defined “Keep Free Space” memory size.



Figure 2-30 “Local Storage” Tabbed Pane



: Click this button to save changes to the SD card control setting.



: Click this button to format the SD memory card (take note of the message in red).



: Click this button to refresh the webpage.

## 2.5.2 Playback Tab

The **Playback** tabbed pane allows user to playback video and snapshot files stored in the SD memory card. These files were saved using the Event setup for video (see Section 2.4.2) and snapshots (Section 2.4.3) with the **SD card** check box enabled.

Playback of the stored videos or snapshots is performed from files recorded on particular date range as explained in the following figure.

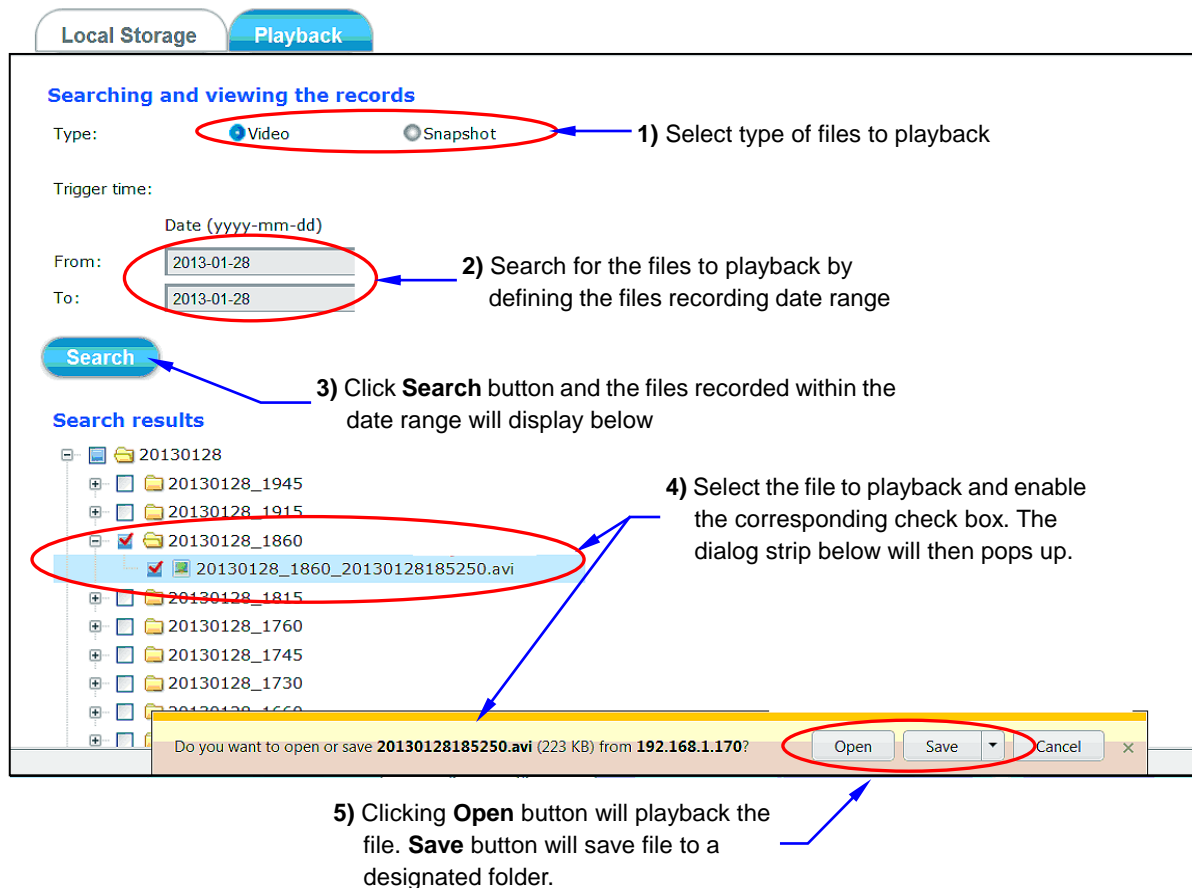


Figure 2-31 "Playback" Tabbed Pane