DIGITUS®

IP / CCTV
OUTDOOR SPEED DOME CAMERA

Quick Installation Guide

Please read instructions thoroughly before operation and retain it for future reference.

1. PRODUCT OVERVIEW

1.1 Description

This PTZ network camera series is a high-performance device for use in professional and demanding surveillance situation. It supports multiple network protocols for MPEG4 or MJPEG live video transmission, and you can easily view, record and operate the camera via the supplied video viewer software or the web browser. Video surveillance over IP network infrastructure is available and easy from anywhere, at anytime.

1.2 Features

- Built-in 22x / 3x optical zoom lens with auto focus lens

- Intelligent auto tracking function to follow intruders

- Area Zoom functions – Draw a square in the live view with your mouse and the PTZ network camera will zoom in the assigned area.

- Motion detection and alarm notification functions

- Real time MPEG-4 network transmission

- Low-latency video streaming for sharp and clear images

- Hybrid digital / analog video output

- Control network camera via Central Management System (CMS) software

- Excellent precision controllability using joystick or keyboard controller

- Support external microphone input

- Complete IP surveillance system, such as the Central Management System (CMS) software, Network-Attached Storage (NAS), Network Video Recorder (NVR), etc.

1.3 Package Contents

◎ In the camera package:	◎ In the bracket package (Optional) :	
☐ 22X PTZ network camera	☐ Bracket	
	☐ Wall mounting screw * 4	
☐ CD-ROM disc for user manual	☐ Wall plug * 4	
☐ CD-ROM disc for Video Viewer AP Software	☐ Cap * 1	
	☐ M6 Nylok screw * 6	
	☐ Spirit level * 1	
	☐ M4 screw * 1	

Note: The DC12V 1A adapter, power cord and RJ45 network cable are not included with the sales package. Please prepare by yourself.
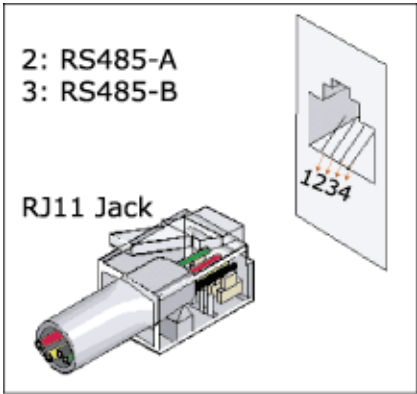
1.4 Specifications

SPECIFICATIONS*	DN-16055
■ Network	
LAN Port	YES
LAN Speed	10/100 Based-T Ethernet
Supported Protocols	DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP
Frame Rate	NTSC:30, PAL:25
Number of Online Users	10
Security	Multiple user access levels with password
Web management software	YES (Control up to 16 network cameras simultaneously)
■ Video / Audio	
Video Compression	MPEG4 / MJPEG
Video Remote Control	YES
Video Adjustment	Brightness, Contrast, Saturation and Hue
Audio Compression	uLaw , 128kbps
Audio Input	External Microphone Input
■ Camera	
Image Sensor	1/4" Sony Color Super HAD CCD
Pixels	768(H)*494(V)<NTSC> / 752(H)*582(V)<PAL>
Resolutions	480 TVL
Lens	f3.9 ~ 85.9mm
F-number	F1.6 (Wide) ~ 3.7 (Tele)
Viewing Angle	4° ~ 80°
Pan Range	360°
Tilt Range	90°
Zoom	22X Optical Zoom (f3.9 ~ 85.9mm)
Max Speed	Pan 360°/s, Tilt 90°/s
Shutter Speed	1 / 60 (1/50) to 1 / 100,000 sec.
Min Illumination	1 Lux / F1.6
Video Output	1.0 Vp-p. 75Ω
BLC	On / Off
White Balance	ATW
Camera ID	0~255
■ Others	
Remote Control	YES
Motion Detection	YES
Alarm and event Notification	Image upload over FTP and Email
General I/O	Alarm in x1
Power	12VDC, 1A
Operating Temperature	0~40℃
Humidity	85%
Minimum Web Browsing Requirements	・Pentium 4 CPU 1.3 GHz or higher, or equivalent AMD ・256 MB RAM ・AGP graphics card , Direct Draw, 32MB RAM ・Windows XP, Windows 2000 Server, ME, 98, DirectX 9.0 or later ・Internet Explorer 6.x or later
Dimension (L x W x H)	145(D) x 184(H) mm
Shipping Weight	NA
Indoor / Outdoor Application	Outdoor

* The specifications are subject to change without notice.

2. CONNECTOR OVERVIEW

2.1 CONNECTOR OVERVIEW

CONNECTOR	DESCRIPTION
Power Connector	Connect the DC 12V adapter for power supply.
Video Output Connector	Connect to the video input connector of your monitor with a video cable (i.e. a RCA line with the BNC connector, or a coaxial line) for video output. * The video cable is not included with the sales package.
Audio Input Connector	Support the connection to an audio device, such as a microphone, for voice transmission of the local side.
RJ11 Connector 	Get a RJ11 line with the proper length to your connection. Different RJ11 line may have different line layout, so the connection might be different. If you cannot control the PTZ network camera after connection, please reverse the RJ11 line layout and try again.
RJ45 Jack Connector	Get a R45 network cable with the proper length to your connection. And connect the network camera to the network.

3. INSTALLATION

3.1 Install the Hardware

Before installation, you need the following items before installation:

- Bracket (supplied with the bracket sales package)
- The accessory packages supplied with the bracket sales package, including:
  (1) Wall mounting screws
  (2) Wall plugs
  (3) Cap
  (4) M6 Nylok screws
  (5) Spirit level
  (6) M4 screw
- Power Drill

**STEP 1: Attach the camera-mounting base to the PTZ camera.**

Put the all the camera connectors through the hole of the camera-mounting base. Align the breach of the camera-mounting base to the sticker label on the camera, and use two **M6 Nylok screws** to attach the camera-mounting base to the camera, as shown in the picture below.

STEP 2: Attach the bracket to the wall.

The bracket is composed of two parts: the upper part and the bottom part. Remove the upper part from the bottom part of the bracket. Use the four mounting screws and wall plugs to attach the bottom bracket to the wall, as shown in the picture below.
Use the spirit level supplied with the bracket package to check the surface is horizontal or not. **If the surface is horizontal, the bubble will remain in the center circle of the spirit level.**
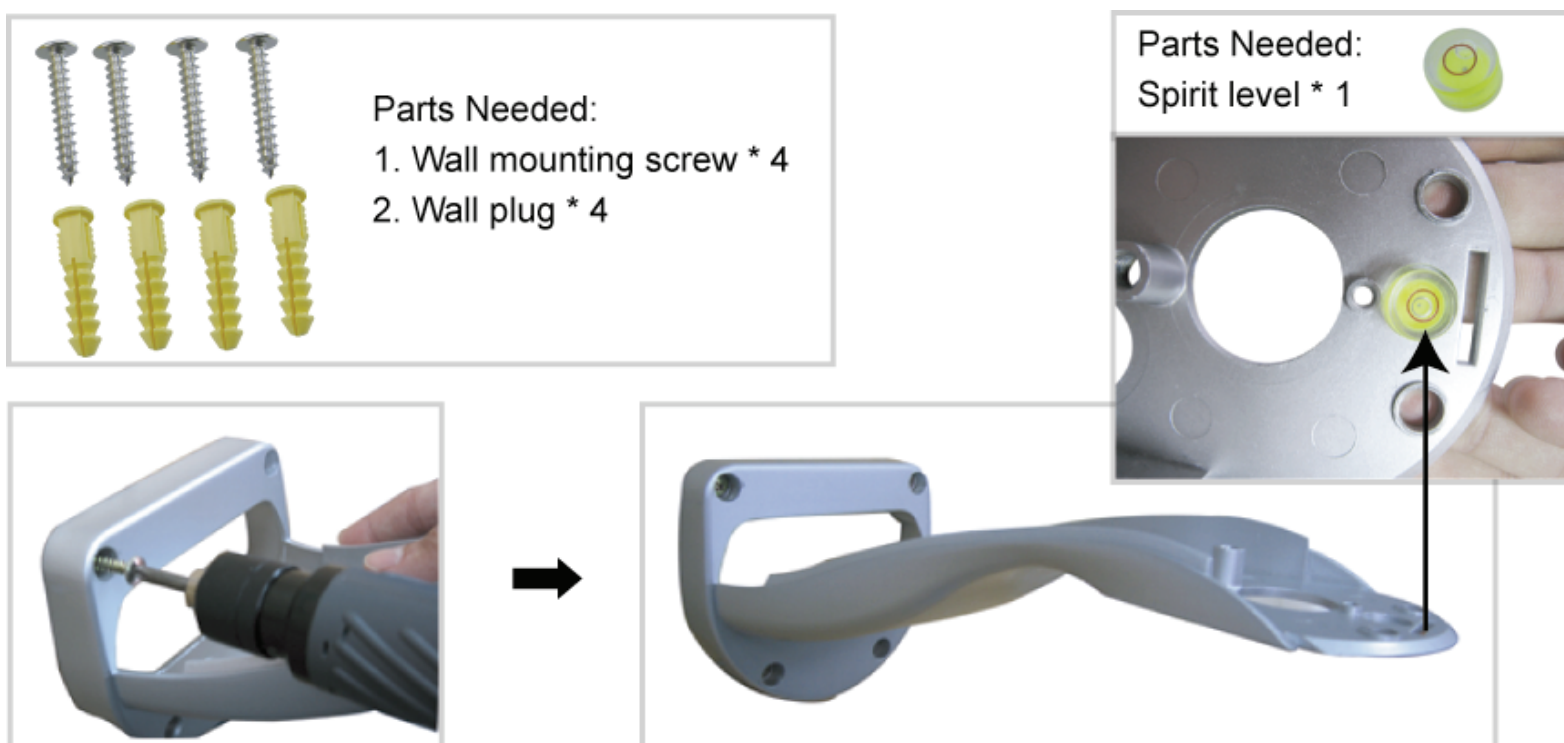
STEP 3: Attach the PTZ network camera to the bracket.

Turn the camera up side down, and put the power, video and RS485 data connectors through the hole of the bracket. Then, slightly secure the camera and the bracket with three M6 Nylok screws.


STEP 4: Check the surface is horizontal or not.

Use the **spirit level** to check the surface is horizontal or not, and adjust the tightness of the **M6 Nylok screws**. When you make sure the surface is horizontal, use the **M4 screw** to fix the camera and the bracket tightly.

STEP 5: Connect the power, video, audio, RJ11, RJ45 connectors.

Arrange the cables in the proper position. Put the cables through the slot and connect the camera with the indicated power adapter, video cable, audio cable, RJ11 cable and RJ45 cable. After connection, use the insulation tape to cover the connected wires and arrange the cables in the proper position again.
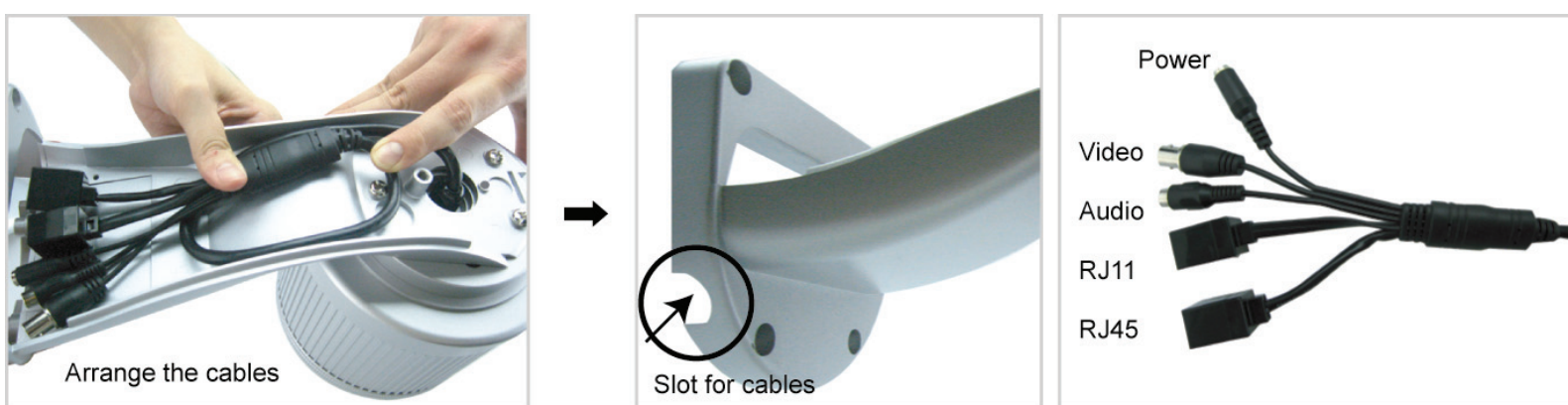
STEP 4: Replace the upper part of the bracket and finish the installation.

Replace the upper part of the bracket and fasten the bracket with a **M6 Nylok screw**. Then use the **cap** supplied with the package to cover it and finish the installation.
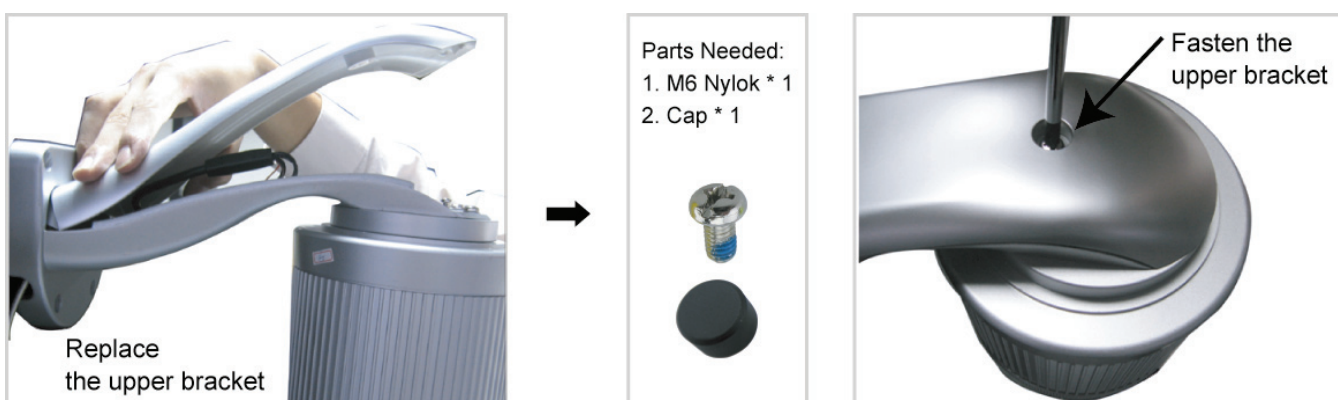
3.3 Assign an IP address and Access the Camera

Step 1. Install the Software

Place the supplied Video Viewer AP software CD into your DVD- / CD-ROM drive. The installation process will automatically start. Follow the on-screen instructions to install the application programs. After installation, a "Video Viewer" shortcut icon will be shown on your PC desktop.

Step 2. Connect the network camera to the Internet access via a RJ-45 network cable.

Step 3. Search the available IP address to login

a) Double-click " " icon on your PC desktop to enter the Video Viewer control panel. By defaults, the "Address Book" ( ) panel will be displayed on the right side of the Video Viewer control panel.

b) Click " " (Search) → " " (Refresh) to search the available IP address(es). The found address(es) will be listed, and can be added into the address book by clicking " " (Add into address book). For details, please see " " (Search) at page 9.

c) Select the IP address you just added into the address book, and click " " (Edit) to edit the settings.

d) Double-click the IP address in the address book to login.

Note: For detailed network settings under different network types (Static IP / PPPOE / DHCP), please refer to your user manual.

· If you cannot search any available IP address, please follow the instructions below.

Step 4. Add the IP address and other network settings to login

a) Double-click " " icon on your PC desktop to enter the Video Viewer control panel. By defaults, the "Address Book" panel will be displayed on the right side of the Video Viewer control panel.

b) The default network camera settings are as follows:

Item	Default Setting
IP Address	192.168.1.10
User Name	admin
Password	admin
Port Number	80

c) Click " " (Address Book) → " " (Add) button to key in the IP address, user name, password, and port number of the network camera you intend to connect.

Item	Default Setting
IP Address	192.168.1.10
User Name	admin
Password	admin
Port Number	80

d) Double-click the IP address you just added into the address book to login.

4. VIDEO VIEWER BASIC OPERATION

4.1 The Live View Page

After setting up the network information, login user name and password, double-click "" on the PC desktop to open and log into the Video Viewer control panel. You will see a screen similar to the following with 6 major sections:

· Connect to only one network camera	· Connect to multiple network cameras (ex. 4 cameras)
· 1-cut display	· 4-cut display

NO.	Button	Function	Description
①		Image Display	To switch to another camera view if two or more network cameras are connected, click the corresponding blue tab. The camera title shown in the blue tab can be customized (For example, "321", "311", "Play1" and "Digi"). The default camera title is "Camera1".
		Scale	Click to view the images in the full screen, 4-cut, 9-cut and 16-cut mode.
		Full Screen	Click to view the images in the full screen mode. To exit the full screen mode, press "Esc" key on the keyboard of the PC.
		Close	Click to close the current image display view. If the image display view is closed, you will be logged out automatically.
		Close All	Click to close all the current image display view. If the image display view is closed, you will be logged out automatically.
②		Address Book	Click to show the predefined IP address(es). You can add, remove or search the IP address to login the network camera remotely.
③		Miscellaneous Control	Click to show the main operation functions: audio volume control, color setting, backup, record setting, server setting, upgrade, and find status log list.
④	/	Record	Click to start / stop the manual recording.
⑤		Snapshot	Click to take a snapshot of the current view. The snapshot will be saved in the path you specified in Record Setting.
⑥		Information	Click to show the current network connection details.
⑦		PTZ	Click to show the PTZ control functions: auto tracking, auto move, auto pan, zoom in, zoom out, focus near and focus far …etc.

4.2 Address Book 📖

This view is displayed when the Video Viewer is activated for you to login / out the network camera from the current address list, or search the available IP address as follows:
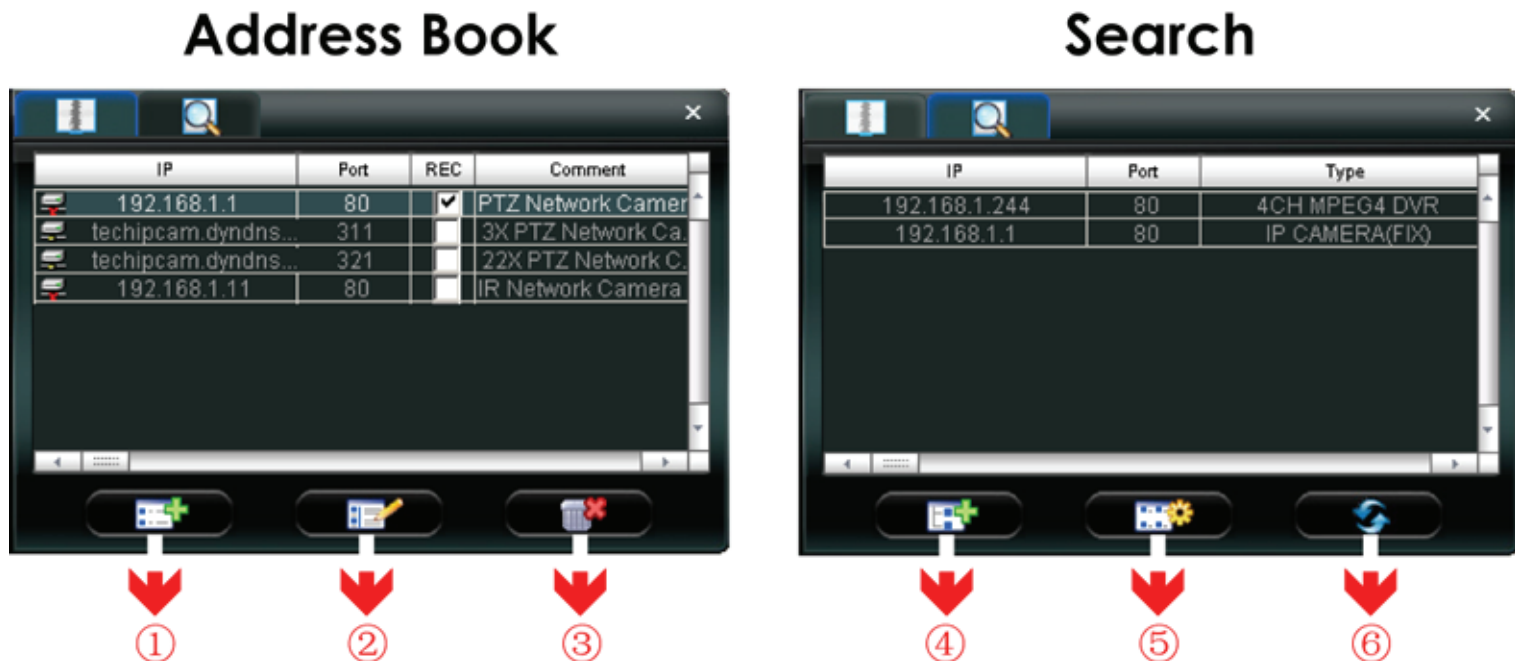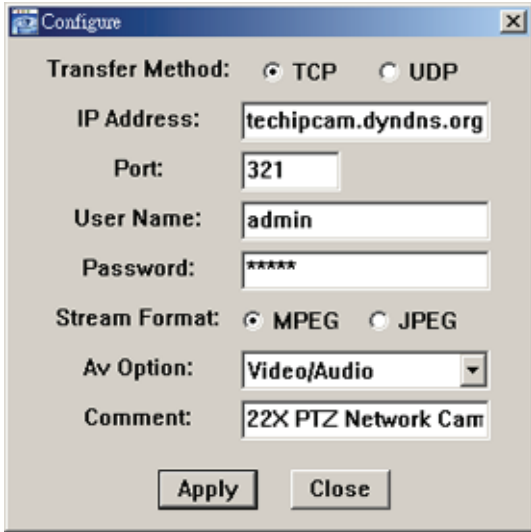

➢ 📖 **(Address Book)**

Click to view the pre-defined network camera access details.

To login, choose one IP address from the address list, and click the address twice; to logout, click the connected IP address twice.

You can also create new IP address information, or modify or remove the current IP address information.

| NO.	Button	Function	Description
1		Add	Click to directly add one IP address for login. Key in all the network camera access information needed, and click "Apply" and "Close" to add the selected address to the address book.
2		Edit	Select one current IP address from the address list, and click this button to edit the settings.
3		Remove	Select one IP address from the address list, and click this button to delete it.
4	☑	Record	Check this checkbox to enable the record settings. For details, please refer to your user manual. The default setting is unchecked.

➢ **(Search IP Address)**

Click to search and view the available IP address(es) for the network connection. You can choose one address to add into the address book, edit the details, or update the address list.

| NO.	Button	Function	Description
4		Add into address book	Select from the available IP address list, and click this button. Key in the network camera access information needed, and click "Apply" and "Close" to add the selected address to the address book.
5		Setting	Select from the available IP address list, and click this button to edit the setting.
6		Refresh	Click to update the available IP address list.

4.3 Manual Record

1)   Choose the record type and assign the record location

Click " " (Miscellaneous Control) → " " (Record Setting) to go to the "Record Setting" page. Check the record type(s) (Manual), and assign the location to save the recordings by double-clicking the "Video Path" cell.
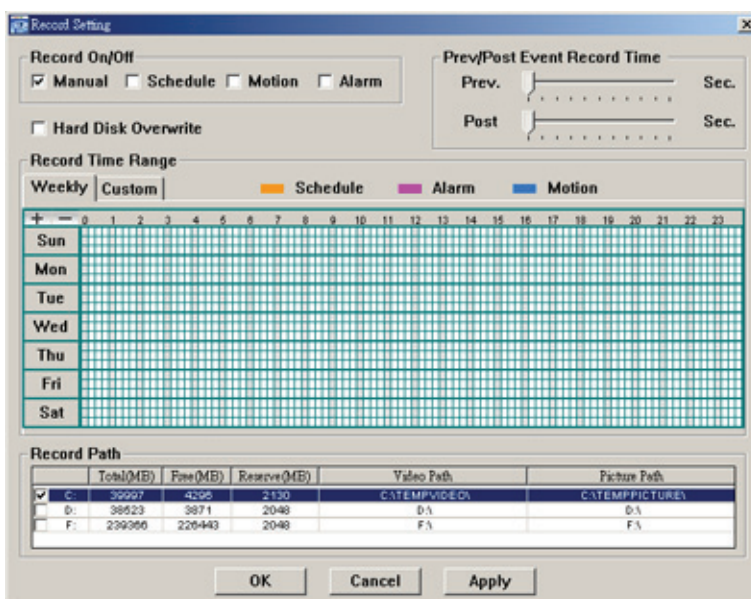
2)   Enable the record settings

Once the "Manual" checkbox is checked in the "Record On/Off" section, checked the "REC" box in the address book panel " " to enable the record settings.
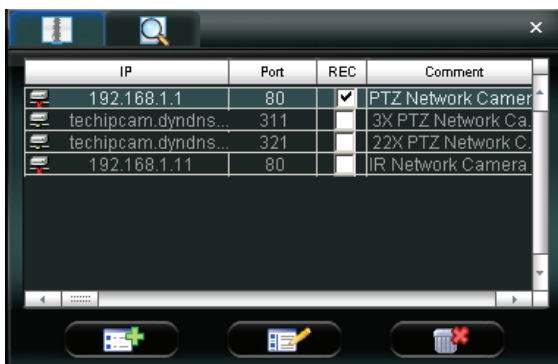

3)   Click " " (Record) button to start manual recording

Click " " (Record) on the main control panel to start the manual recording immediately, and the recordings will be saved in the specified location. When the record function is started, a flashing indication icon will be shown at the bottom right corner of the image display view.

4.4 Playback

To play a recording, click " " (Miscellaneous Control) → " " (Status List), and select the "Record" tab. A list of all the recordings will be shown by defaults, and you can also sort out the logs you want to speed up the search time. For details, please refer to your user manual.
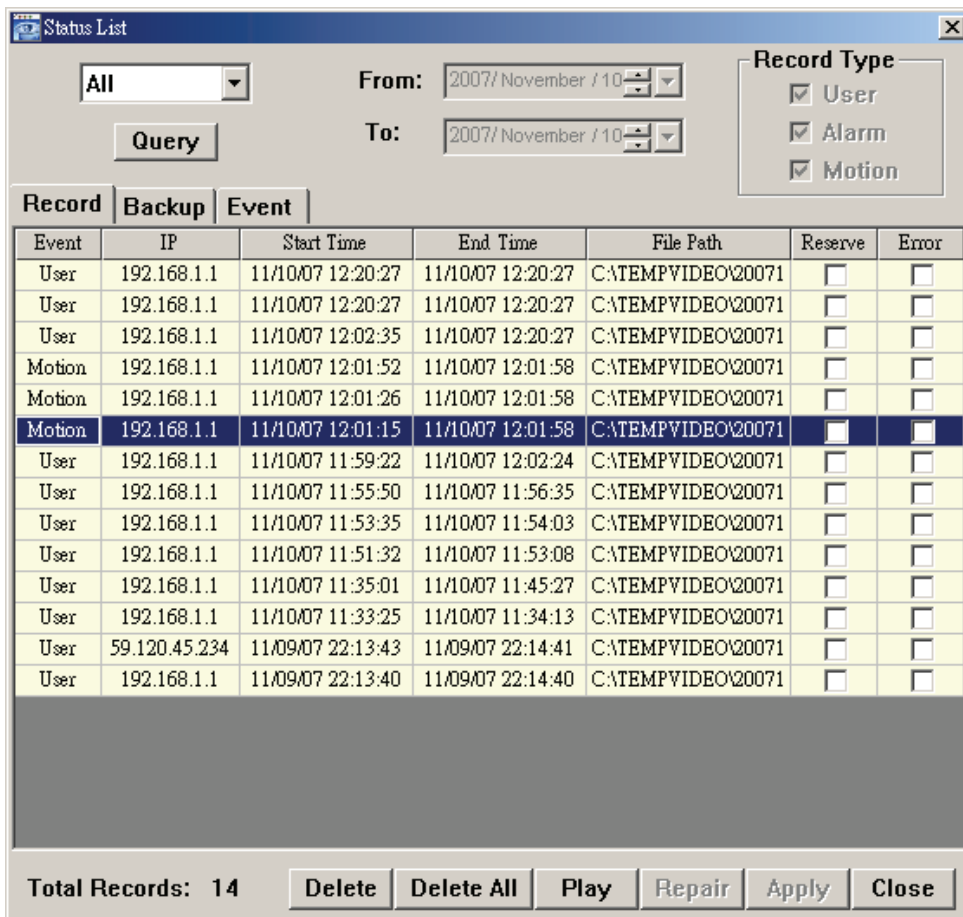
To immediately play a recording file, select a log from the list, and click "Play" button, or double-click the selected log. Then, the playback control panel will be shown at the bottom of the main control panel similar to the following.

For the playback control panel details, please refer to your user manual.