

Chapter 1. Introduction

Thank you for purchasing the Pan/Tilt Internet Camera. It is versatile and high image solution of surveillance application for day and night. The Pan/Tilt Internet Camera is also a stand-alone camera system with a built-in processor and web server that provides highest quality video and system performance.

1.1 Before Installation

Before installation, please be sure to read this quick installation guide and user's manual (CD) carefully to complete machine installation. This guide shows how to quick set up the three cameras, unless model name specified terms "PT Internet Camera" will be used for these three models.

1.2 System Requirements

Network Interface	10/100MBase-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or later
System Hardware	· CPU: Pentium 4, 3.0GHz or above · Memory Size : 512 MB (512 MB or above Recommended) · VGA card resolution : 1024 x 768 or above · VGA card memory : 64 MB or above (at least 128 MB for Megs-pixel resolution) · Network bandwidth: In VGA resolution mode, minimum upload bandwidth is 1Mbps.

1.3 Package Content

PT Internet Camera x 1

Power Adapter x 1

Camera Mount Kit x 1

CD Disk x 1

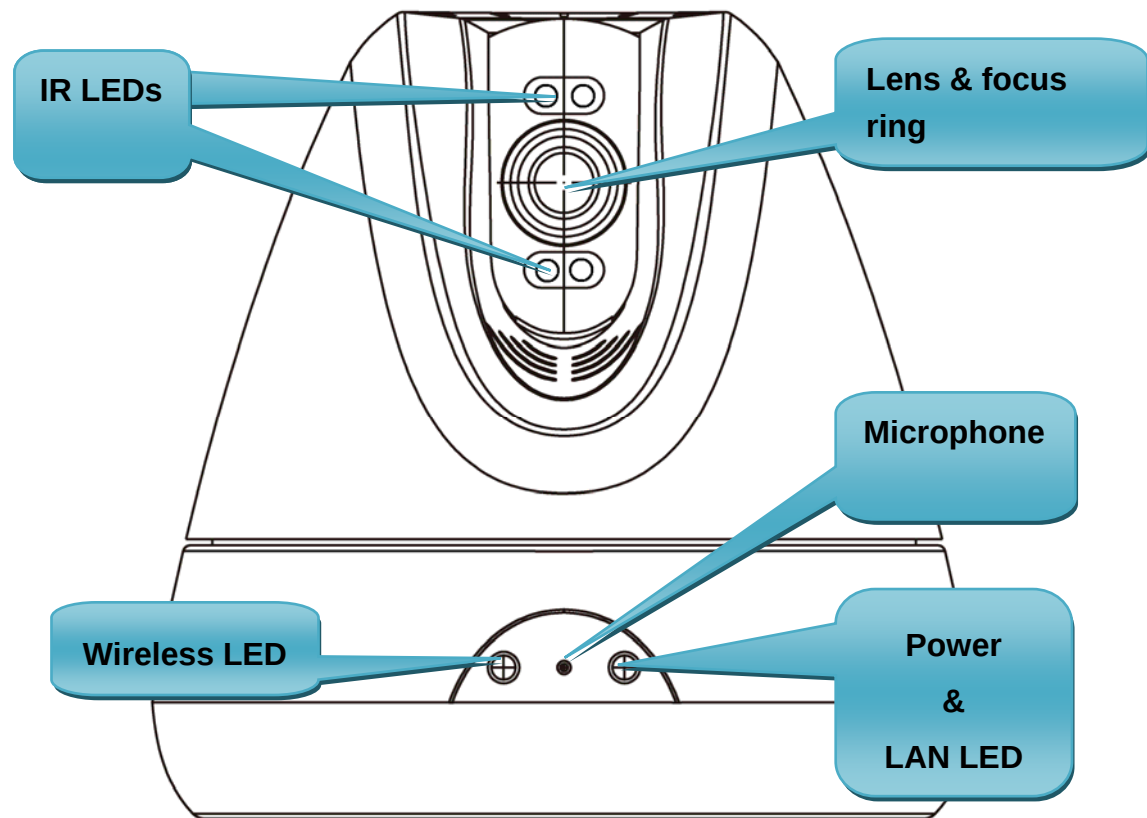
Quick Installation Guide x 1

NOTE: If any of the above items are missing, please contact your dealer immediately.

Chapter 2. Physical Description

2.1 ICA-230/M230

2.1.1 Front Panel



IR LEDs	These LEDs are Infra-Red type. It's very useful for low-lux environment to provide supplementary light source for image sensor.
----------------	---

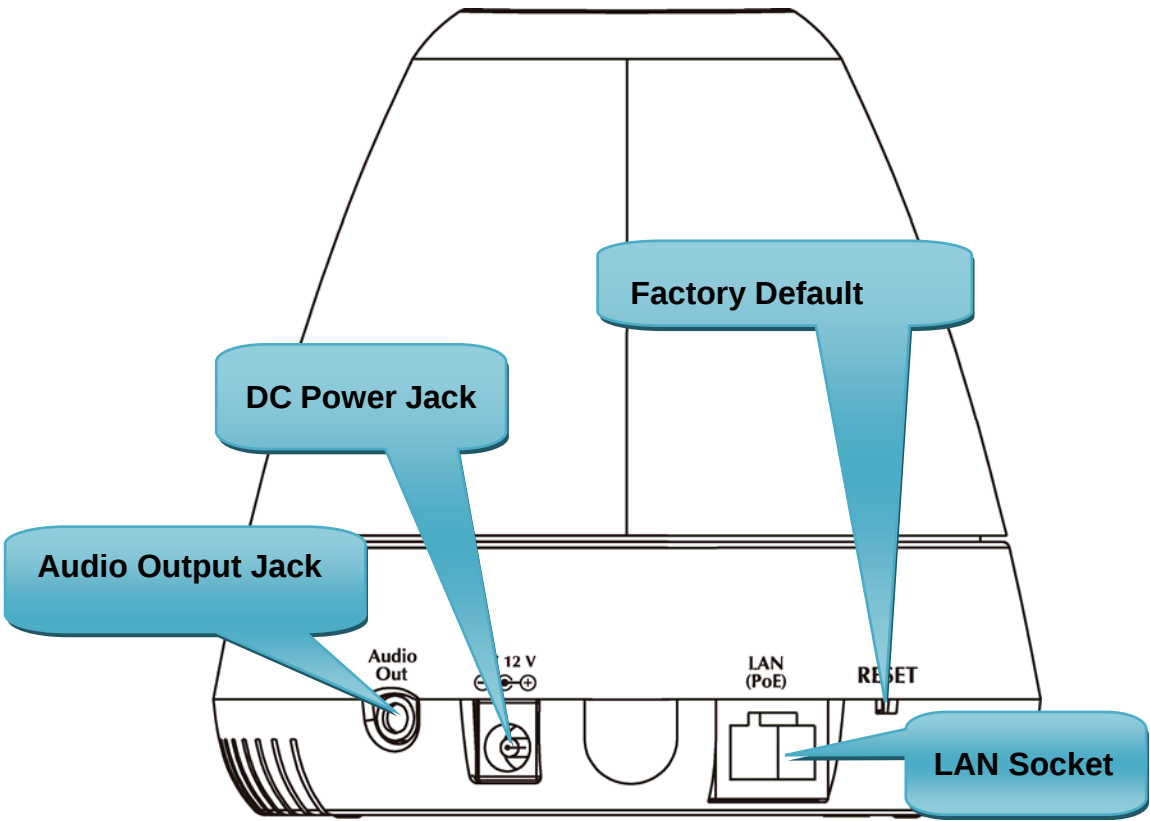
Lens & focus ring	User could use this ring to adjust focus manually.
------------------------------	--

Power & LAN LED	This LED is used to indicate whether DC power is on or not. In addition, this LED will be flashing while network accessing via Ethernet.
----------------------------	--

Microphone	The Camera has built-in an internal microphone. This microphone is hidden in the pinhole located on the front panel.
-------------------	--

Wireless LED	This LED is used to indicate the wireless accessing of the Camera. *Future feature
---------------------	---

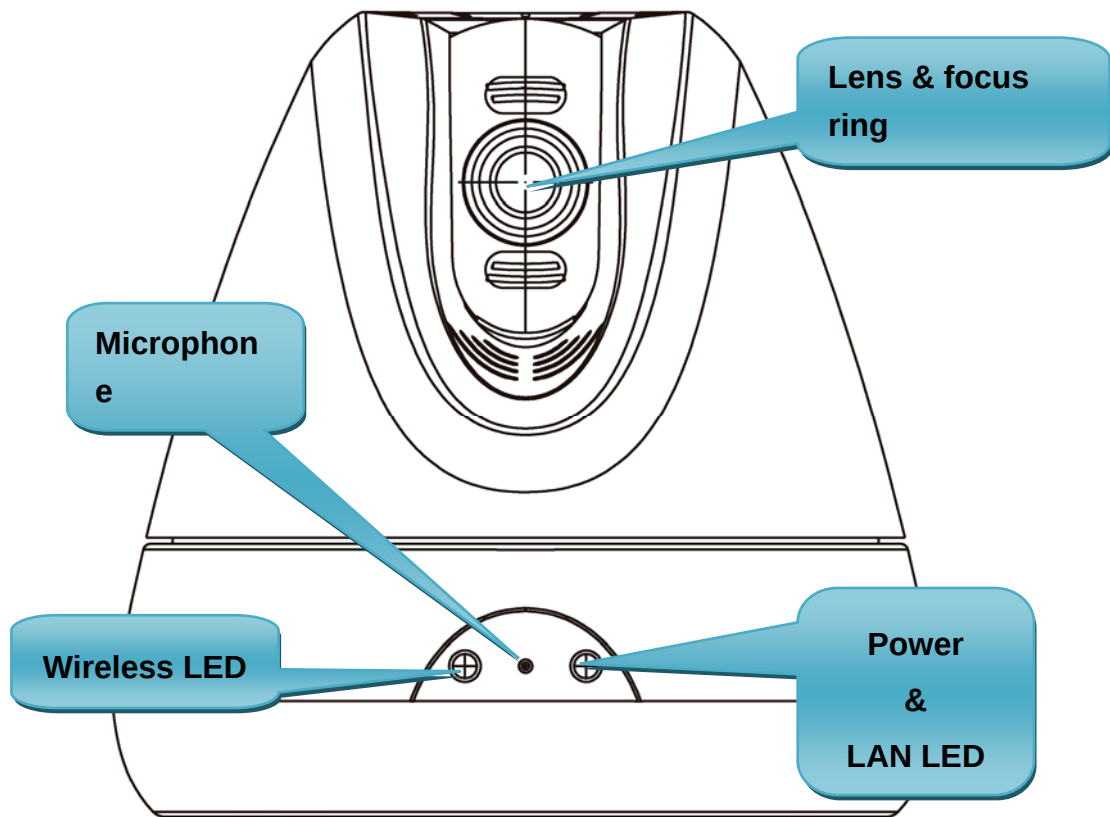
2.1.2 Rear Panel



Audio Output Jack	Audio-out Jack allows this device to output audio or alerting sound.
DC Power Jack	The input power is 12VDC. NOTE Only use the power adapter supplied with ICA-230/M230. Otherwise, the product may be damaged.
LAN Socket	The LAN socket is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 “straight through” cable to connect the ICA-230/M230 to a 100Mbps Fast Ethernet network switch or hub. The LAN socket is compliant with IEEE802.3af standard PoE interface. NOTE If you need to connect the ICA-230/M230 to PC or notebook directly, you should use cross over cable instead.
Factory Default Reset	This button is hidden in the pinhole. Please refer to the Appendix A in manual for more information.

2.2 ICA-501

2.2.1 Front Panel



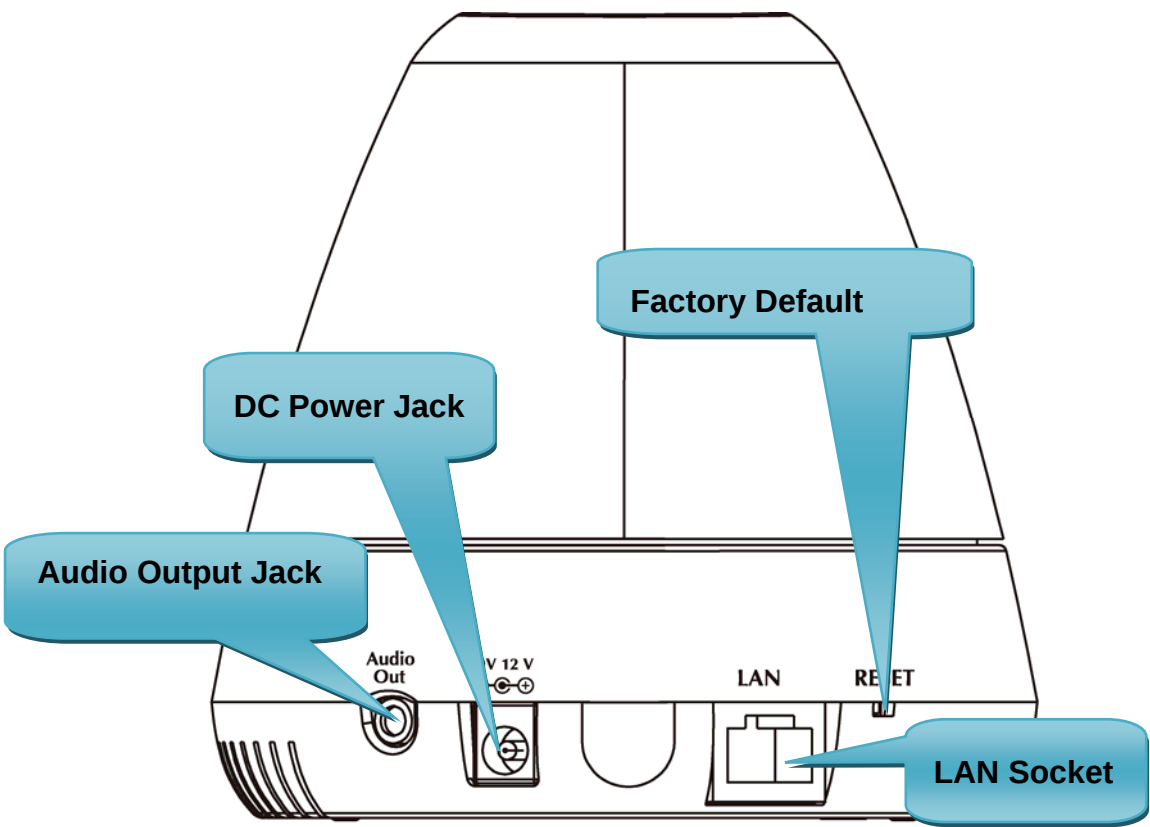
Lens & focus ring User could use this ring to adjust focus manually.

Power & LAN LED This LED is used to indicate whether DC power is on or not. In addition, this LED will be flashing while network accessing via Ethernet.

Microphone The Camera has built-in an internal microphone. This microphone is hidden in the pinhole located on the front panel.

Wireless LED This LED is used to indicate the wireless accessing of the Camera.
*Future feature

2.2.2 Rear Panel

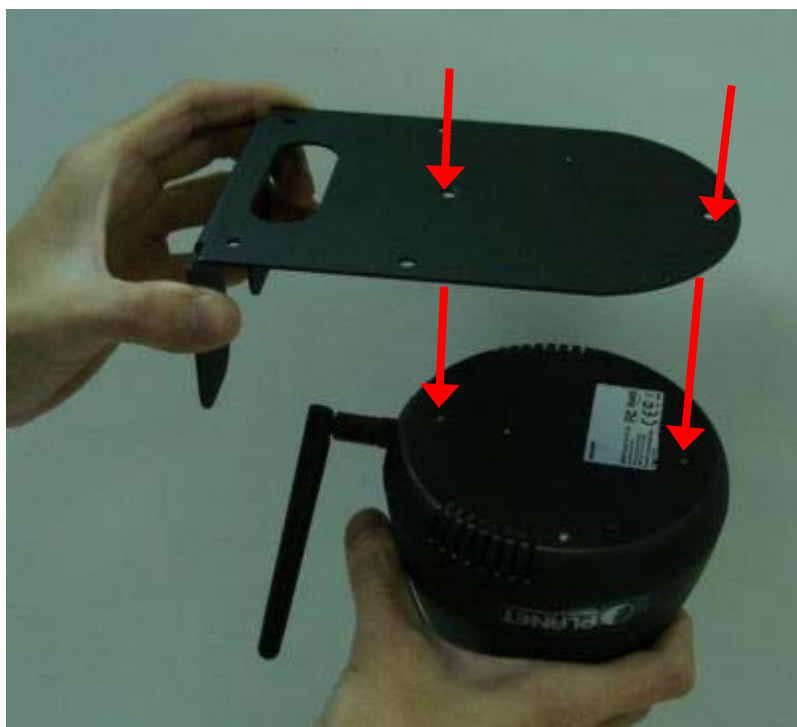


Audio Output Jack	Audio-out Jack allows this device to output audio or alerting sound.
DC Power Jack	The input power is 12VDC.
	NOTE Only use the power adapter supplied with ICA-501. Otherwise, the product may be damaged.
LAN Socket	The LAN socket is a RJ-45 connector for connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use Category 5 “straight through” cable to connect the ICA-501 to a 100Mbps Fast Ethernet network switch or hub. NOTE If you need to connect the ICA-501 to PC or notebook directly, you should use cross over cable instead.
Factory Default Reset	This button is hidden in the pinhole. Please refer to the Appendix A in manual for more information.

Chapter 3. Mounting the PT Internet Camera

3.1 Ceiling Mount

1. Fix the camera to L-type bracket with two supplied screws.



2. Fix the bracket and camera to the ceiling using two holly wall anchors and screws.



3.2 Ceiling Mount

1. Fix the L-type bracket to the wall using two holly wall anchors and screws.



2. Fix the camera to L-type bracket with two supplied screws.



3.3 Physical Installation

1. Connect an Ethernet cable

Connect the LAN cable on the PT Internet Camera to the network device (hub or switch).

NOTE: If there has a IEEE802.3af PoE switch in your network, you can connect the ICA-230/M230 LAN cable to this PoE switch to obtain power. The power adapter is unnecessary when ICA-230/M230 is connected to a PoE switch.

2. Check the LED (Front Panel)

The LED is defined to identify LAN connection type. When LAN port is connected, the LED will be green.

3. Place the PT Internet Camera on the table or fix it onto ceiling or wall

Use screws to fix the PT Internet Camera onto the ceiling or wall. You could also put the PT Internet Camera in the table directly.

4. Attach the power supply

Plug in power adapter and connect to power source. After power on, PT Internet Camera will start to operate.

NOTE: Only use the power adapter supplied with PT Internet Camera. Otherwise, the product may be damaged

The power adapter is unnecessary when ICA-230/M230 is connected to a PoE switch. Otherwise, the product may be damaged when ICA-230/M230 is connected to a PoE switch and power adapter simultaneously.

5. Attach Speaker to PT Internet Camera (option)

If user needs not only video stream but also audio stream, then the speaker should be attached to PT Internet Camera.

Chapter 4. IPWizard

This chapter shows how to quick set up your PT Internet Camera. The PT Internet Camera is with the default settings. However to help you find the networked camera quickly the windows utility-IPWizard can search the cameras in the network that shall help you to configure some basic setting before you started advanced management and monitoring.

4.1 Installation

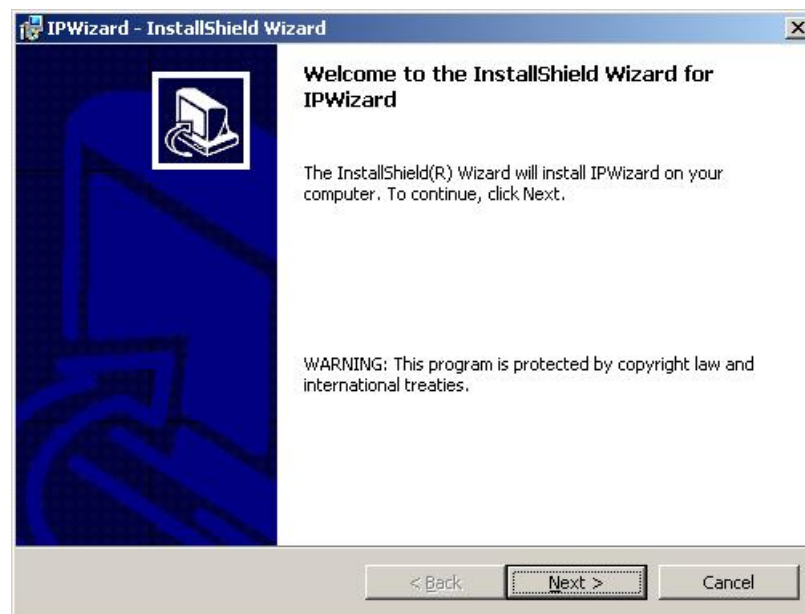
NOTE: In the installation steps below, this guide use ICA-M230 as the example. However, the steps for ICA-501 & ICA-230 are similar.

1. Insert the bundled CD into the CD-ROM drive to launch the autorun program. Once completed, a welcome menu screen will appear.
2. Click the “IPWizard” hyperlink, you will see the InstallShield Wizard dialog box as below.

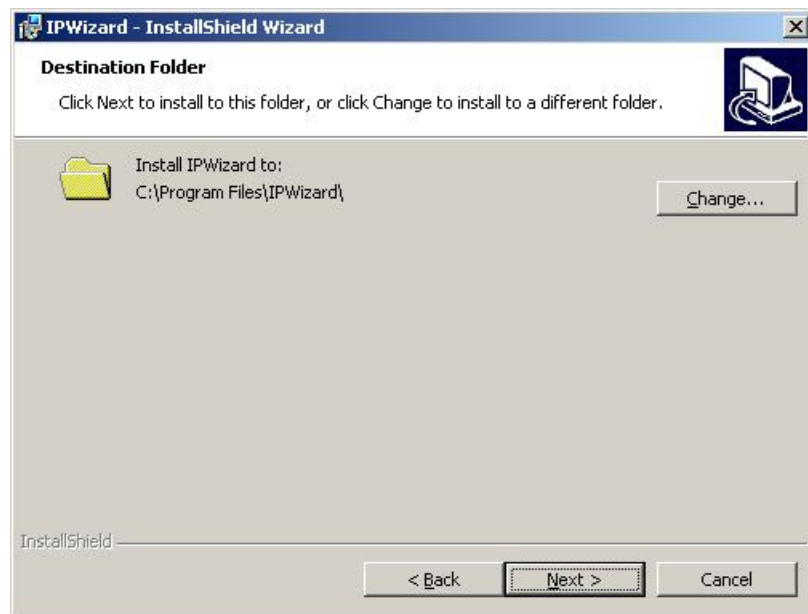
Note: If the welcome screen does not appear, click “Start” at the taskbar. Then, select “Run” and type “D:\Utility\setup.exe”, assume D is your CD-ROM drive.



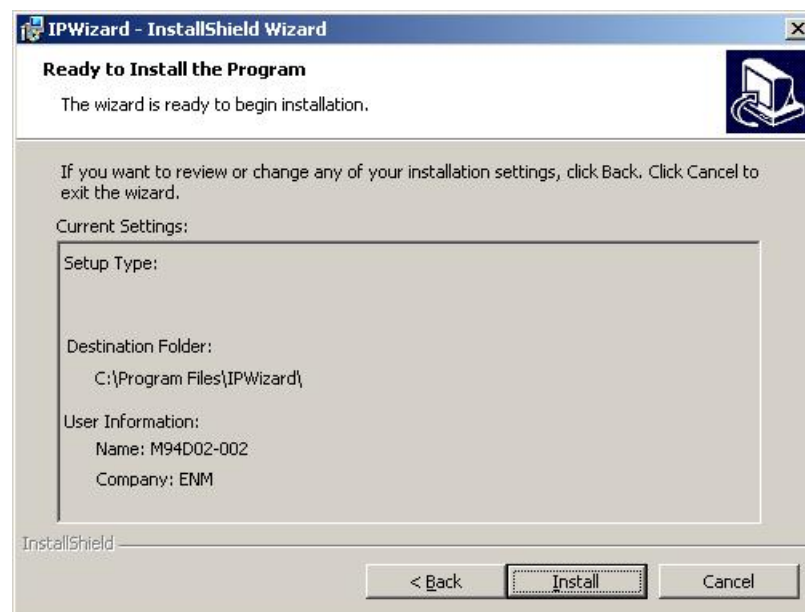
3. The “Welcome to the InstallShield Wizard for IPWizard” will display on the screen and click “Next” to continue.



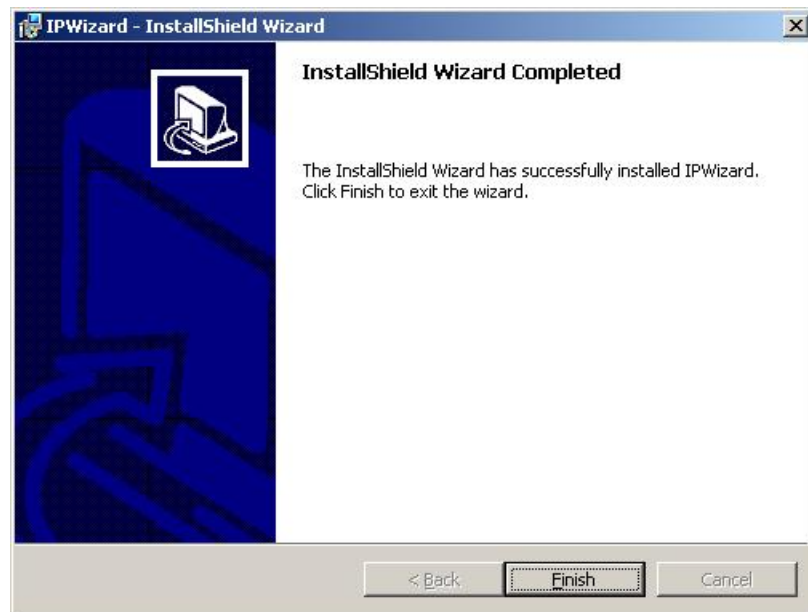
4. Please click “Next” to install with original settings, or you may click “Change...” button to modify the install folder then press “Next” to continue.



5. Please click “Install” to start the installation.



6. Please click "Finish" to complete the installation



7. Please double-click the utility icon on the desktop then you will see the PT Internet Camera utility.
8. Press "Search" button. IP Wizard will list all IP Cameras in your LAN environment:



4.2 Wizard function

NOTE: Please select your PT Internet Camera and press “Wizard”. The utility featured of “Wizard” function to help user to initial PT Internet Camera. User can setup IP address, username and password step by step.

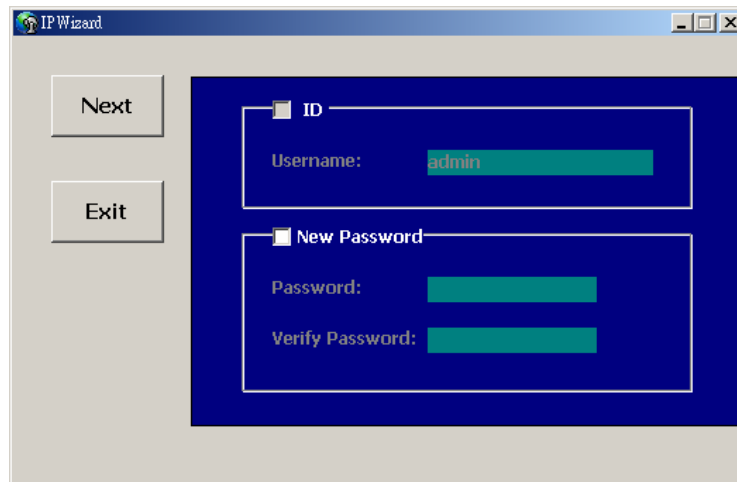


Please enter User Name and Password. Default Username is: **admin**, leave password blank. Then click “Submit”.



4.3 Username and Password

You may change the ID and assign a new password to your PT Internet Camera or keep the original and press “Next” to continue.



The IP Wizard window displays the configuration for the camera's ID and password. On the left, there are two buttons: "Next" and "Exit". The main area is divided into two sections. The first section, labeled "ID", contains a "Username:" label followed by a text box containing the word "admin". The second section, labeled "New Password", contains a "Password:" label followed by a text box, and a "Verify Password:" label followed by another text box.

As below, you can select “Static IP” and enter the IP settings. Or select “DHCP ON” when there is a DHCP server in your network.



The IP Wizard window displays the configuration for the camera's IP settings. On the left, there are three buttons: "Next", "Prev.", and "Exit". The main area is divided into two sections. The first section, labeled "LAN:", contains two radio buttons: "Static IP" (which is selected) and "DHCP ON". The second section contains a list of IP settings, each with a label and a text box: "IP Address:" with "192.168.0.20", "Subnet Mask:" with "255.255.255.0", "Def. Gateway:" with "192.168.0.254", "DNS1:" with "168.95.1.1", and "DNS2:" with "0.0.0.0".

NOTE: If no IP address is assigned after 30 seconds, PT Internet Camera will use its default address 192.168.0.20.

User may open the web browser, and key in the IP address (for example: <http://192.168.0.20>, the default IP address) in the address field to login web configuration page and refer to the User's manual in the bundled CD disk for more configuration.

Chapter 5. Cam Viewer Installation

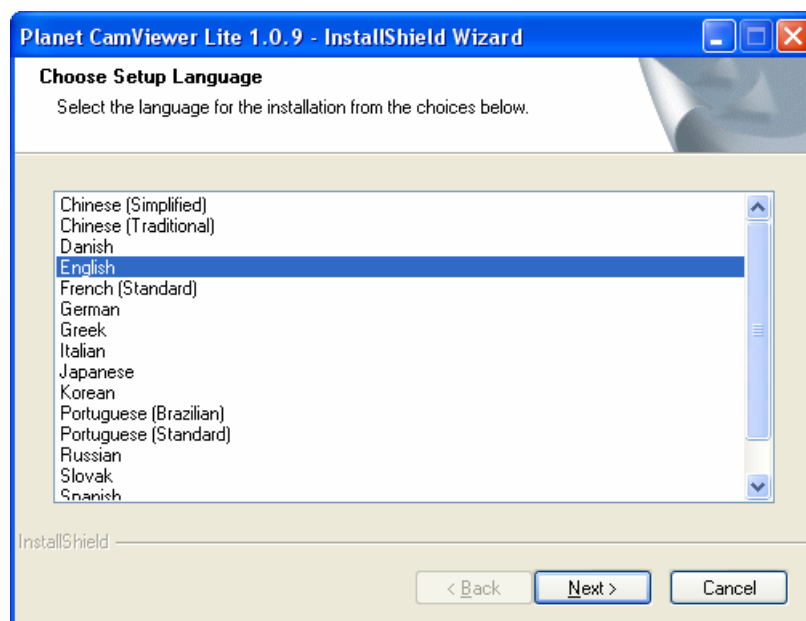
This chapter will guide you to install the central management software. The PT Internet Camera can be managed through its web interface. However, to central control, manage or record the cameras installed in the network Cam Viewer, the windows-based central management software are required.

NOTE: The Cam Viewer Pro 30 days trial version installation steps are similar. Below is the installation of Cam Viewer Lite.

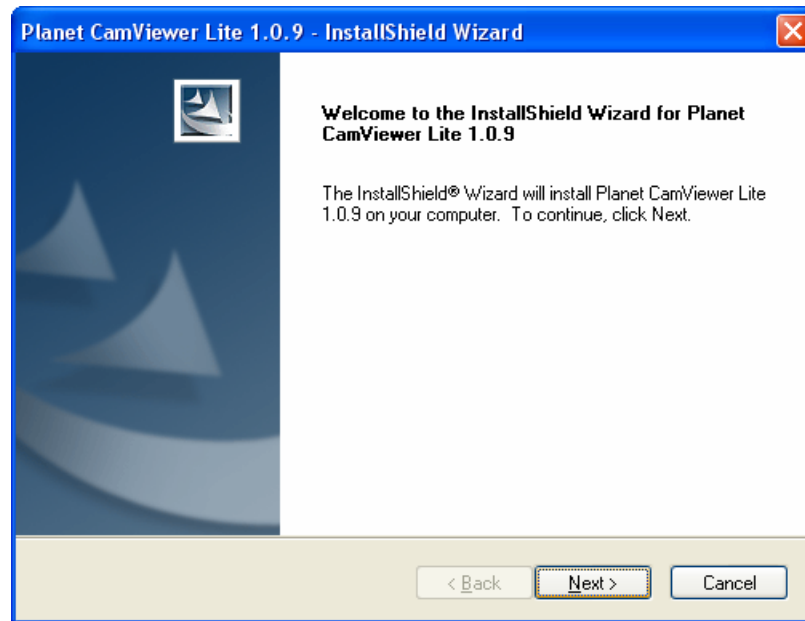
1. Insert the bundled Cam Viewer CD disk into the CD-ROM drive to launch the autorun program. Once completed, a welcome menu screen will appear. Click the “Cam Viewer Lite” hyperlink, the below InstallShield Wizard dialog box will appear.

NOTE: If the welcome screen does not appear, click “Start” at the taskbar. Then, select “Run” and type “D:\Cam Viewer Lite\setup.exe”, assume “D” is your CD-ROM drive.

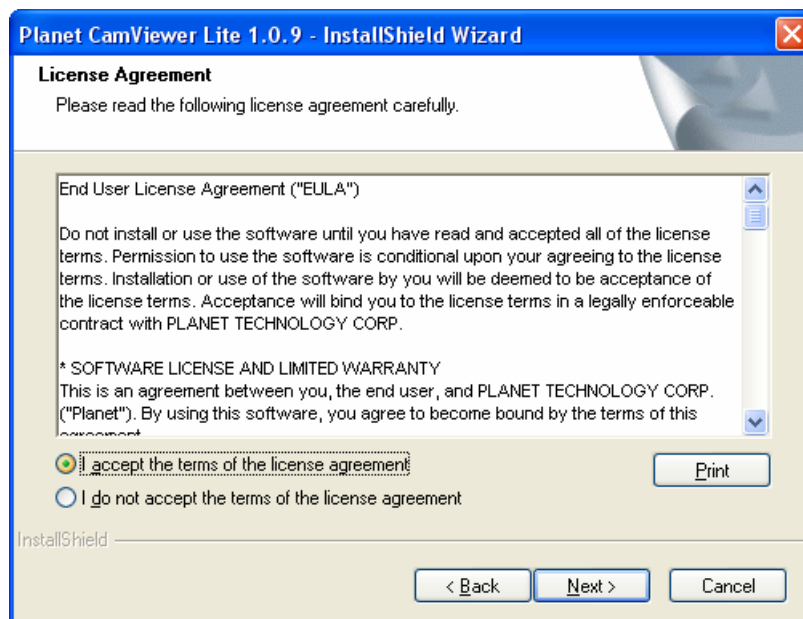
2. Selects the language which you want, Cam Viewer is current including fifteen languages – Chinese (Simplified), Chinese (Traditional), Czech, Danish, English, Finnish, French (Standard), German, Greek, Hungarian, Italian, Japanese, Korean, Portuguese (Brazilian), Portuguese (Standard), Russian, Slovak, Spanish, Thai and Turkish. Please select the language and click “Next” to continue.



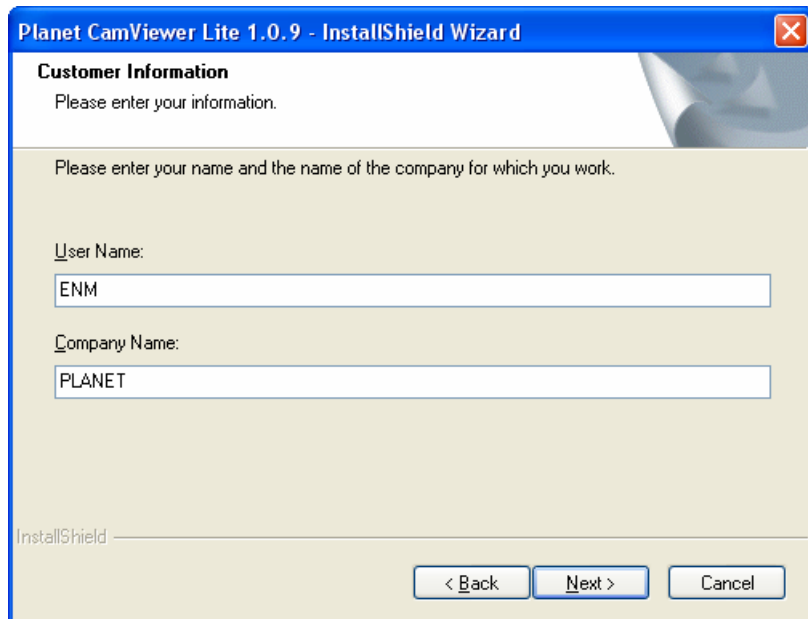
3. The “Welcome to the InstallShield Wizard for Planet Cam Viewer Lite 1.0.9” will display on the screen, please click “Next”.



4. Please read the license agreement and then check “I accept the terms of the license agreement” if you are agreed and click “Next” to continue.

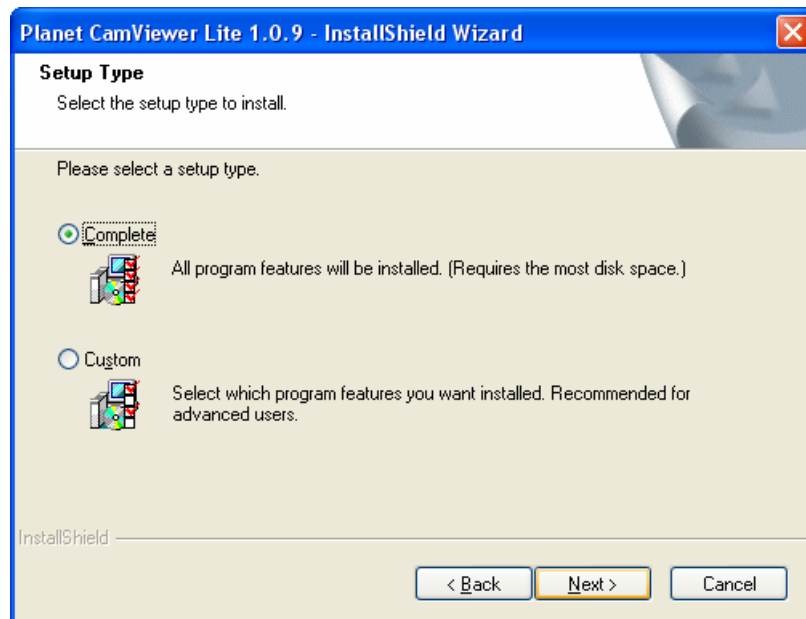


5. Please key-in user name and company name for which you want and click “Next” to continue.



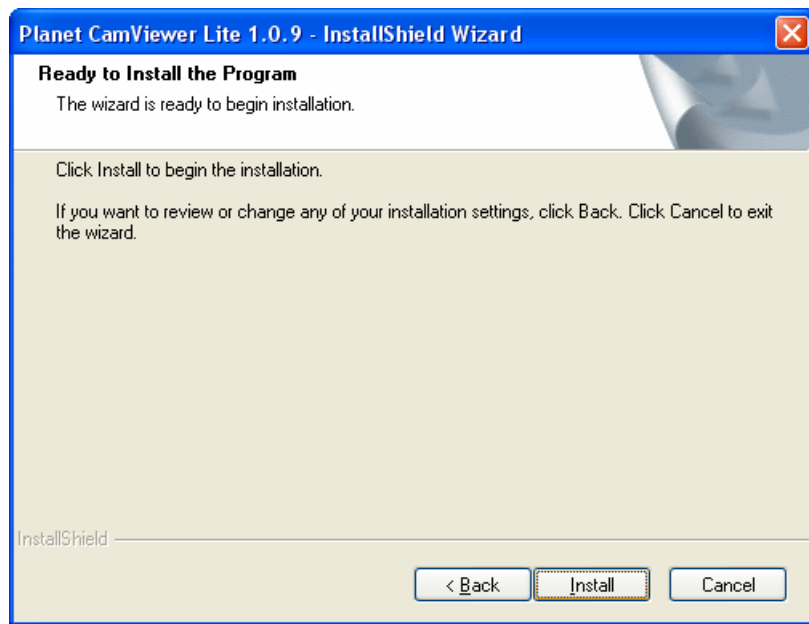
The screenshot shows the 'Customer Information' screen of the Planet CamViewer Lite 1.0.9 - InstallShield Wizard. The window has a blue title bar with the text 'Planet CamViewer Lite 1.0.9 - InstallShield Wizard' and a close button. The main area is light beige with a blue header bar containing the title and a close button. Below the header, the text 'Customer Information' is displayed, followed by 'Please enter your information.' and 'Please enter your name and the name of the company for which you work.' There are two text input fields: 'User Name:' with the value 'ENM' and 'Company Name:' with the value 'PLANET'. At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border. The 'InstallShield' logo is visible in the bottom left corner.

6. Check the option “Complete – all program features will be installed (Requires the most disk space)” and click “Next”.

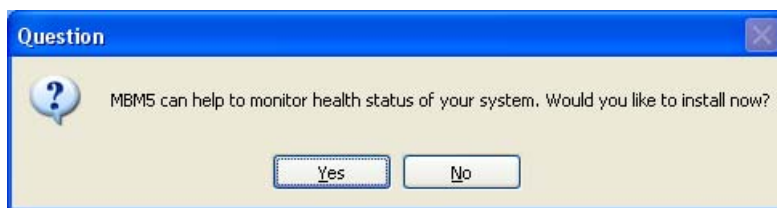


The screenshot shows the 'Setup Type' screen of the Planet CamViewer Lite 1.0.9 - InstallShield Wizard. The window has a blue title bar with the text 'Planet CamViewer Lite 1.0.9 - InstallShield Wizard' and a close button. The main area is light beige with a blue header bar containing the title and a close button. Below the header, the text 'Setup Type' is displayed, followed by 'Select the setup type to install.' and 'Please select a setup type.' There are two radio button options: 'Complete' (selected) and 'Custom'. The 'Complete' option is described as 'All program features will be installed. (Requires the most disk space.)' and the 'Custom' option is described as 'Select which program features you want installed. Recommended for advanced users.' At the bottom, there are three buttons: '< Back', 'Next >', and 'Cancel'. The 'Next >' button is highlighted with a blue border. The 'InstallShield' logo is visible in the bottom left corner.

7. "Ready to Install the Program" will appear to prompt you to start the installation. Please click "Install" to start.



8. Please click "No" to finish the Cam Viewer Lite installation.



NOTE: In above step, when Cam Viewer works with MBM5 (Motherboard Monitor 5), Cam Viewer will display CPU temperature and fan speed. Please click "Yes" if you need this function and refer to the manual of Cam Viewer CD disk for complete installation.

Now, you can central manage all the PT Internet Camera installed in your network. Please refer to the Cam Viewer guide in the CD-ROM for more.

Appendix A: Feature Listing for Cam Viewer

Product	Cam Viewer Lite	Cam Viewer Pro Single-Brand	Cam Viewer Pro Multi-Brand
Main Console			
IP Cameras Input(s)	32 Channels	4 / 8 / 16 / 32 / 64 Channels	4 / 8 / 16 / 25 / 32 / 64 Channels
Dual Monitor	N/A	Yes	Yes
Recording Schedule	Yes	Yes	Yes
Smart Guard	N/A	Yes	Yes
Config Settings			
General	Yes	Yes	Yes
Camera	Yes	Yes	Yes
I/O Device	Yes	Yes	Yes
PTZ Config	Yes	Yes	Yes
Hotline	N/A	Yes	Yes
User Account	Yes	Yes	Yes
Address Book	N/A	Yes	Yes
Monitor Display	N/A	Yes	Yes
Max. Resolution	640 x 480	640 x 480	1280 x 1024 (Mega-Pixel)
Video Format	M-JPEG, MPEG-4	M-JPEG, MPEG-4	M-JPEG, MPEG-4, H.264
Counting Application	N/A	2-way counting	2-way counting
Log Viewer	Unusual event; System log	Unusual event; System log; Counting application	Unusual event; System log; Counting application
Backup	CD-ROM; Hard Disk	CD-ROM; Hard Disk	CD-ROM; Hard Disk
Live Streaming Server	Unlimited	Unlimited	Unlimited
Remote Playback Server	N/A	Unlimited	Unlimited

Play Back

Concurrent Playback	1 Channel	16 Channels	16 Channels
Smart Search	General Motion	General Motion; Missing Object; Signal Lost; Foreign Object; Lose Focus; Camera Occlusion	General Motion; Missing Object; Signal Lost; Foreign Object; Lose Focus; Camera Occlusion
Enhancement	Visibility; Sharpen; Brightness; Contract; Grey Scale	Visibility; Sharpen; Brightness; Contract; Grey Scale	Visibility; Sharpen; Brightness; Contract; Grey Scale
Save Video	AVI	AVI	AVI
Save Image	BMP; JPG	BMP; JPG	BMP; JPG
Print	Supported	Supported	Supported
Backup	CD-ROM; Hard Disk	CD-ROM; Hard Disk	CD-ROM; Hard Disk
Log Viewer	Unusual event; System log	Unusual event; System log; Counting application	Unusual event; System log; Counting application
Setting	Play; Capture Image	Play; Capture Image	Play; Capture Image
Remote Playback	N/A	Supported	Supported
Multiple Language	Supported	Supported	Supported
Remote Live Viewer			
Channel(s)	1	16	16
PTZ Control	Supported	Supported	Supported
Web Viewer			
Channel(s)	1	4	4

Appendix B: Suggest Hardware / System Requirement

Total FPS	~600	600~480	480~240	240~120	120~
CPU	Intel Core 2 Duo QX6800	Intel Core 2 Duo E6600	Intel Pentium D 930	Intel P4 3.0 GHz	Intel P4 2.8 GHz
RAM	4 GB	2 GB	2 GB	1 GB	1 GB
Chipset of Motherboard	Intel 946 or 965 chip, Intel Chipset recommended				
VGA Card	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 945/965 or above				
Ethernet	100 Base-TX or Above, Gigabit LAN recommended				
Hard Disk	160 GB or above				
O.S.	Windows 2000 / XP / 2003				

- NOTE:**
1. Also it does strongly recommend that close the unnecessarily programs while running Cam Viewer to monitor and record video stream from IP cameras.
 2. Total FPS Means all the cameras will spend how many frames when this software works. Suppose there are 10 cameras, each one will work with 30fps, the total fps should be 300fps.

Ordering Information for Cam Viewer Pro

CVP-4	4-Channel Single-brand Cam Viewer Professional
CVP-8	8-Channel Single -brand Cam Viewer Professional
CVP-16	16-Channel Single -brand Cam Viewer Professional
CVP-32	32-Channel Single -brand Cam Viewer Professional
CVP-64	64-Channel Single -brand Cam Viewer Professional
CVP-M4	4-Channel Multi-brand Cam Viewer Professional
CVP-M8	8-Channel Multi-brand Cam Viewer Professional
CVP-M16	16-Channel Multi-brand Cam Viewer Professional
CVP-M25	25-Channel Multi-brand Cam Viewer Professional
CVP-M32	32-Channel Multi-brand Cam Viewer Professional
CVP-M64	64-Channel Multi-brand Cam Viewer Professional

Further Configuration

If you want to configure more detail settings of PT Internet Camera, please refer to the user manual in the CD disk.