

Dual Mode CCD Box Internet Camera

ICA-750

User's Manual

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Revision User's Manual for PLANET Dual Mode CCD Box Internet Camera Model: ICA-750 Rev: 1.0

Part No.: EM-ICA750

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1. Introduction

Equipped with MPEG-4 and M-JPEG video streaming, the PLANET ICA-750 is a Dual Mode CCD Box Internet Camera which is designed for professional security and high-quality video/audio requirement. The manual Day/Night switch with ICR (IR-cut filter Removable), CS-Mount optical lens and PoE (Power over Ethernet) features provides the most flexibility of IP surveillance.

PLANET ICA-750 supports 2-Way audio that can directly make audio communication between local and remote side by using the built-in microphone and adding an external speaker. Besides web browsers, the ICA-750 also provides 3GPP capability which can let the administrators remotely view the live video via a 3G mobile phone. With DI/DO ports, users are allowed to connect external sensors or alarm devices to improve the security system with more advanced function.

1.1 Package Contents

Please inspect your package. The following items should be included in the package:

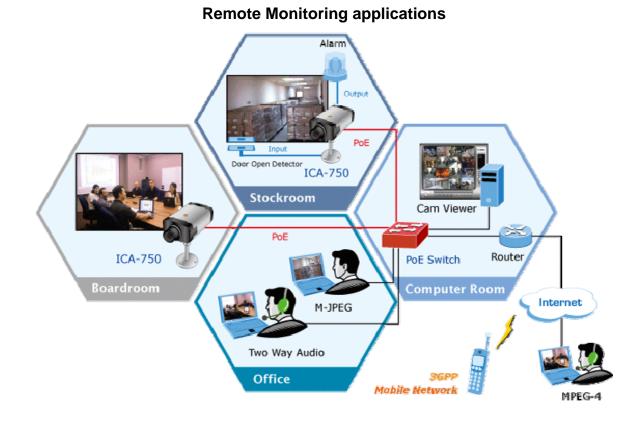
- 1 x ICA750
- 1 x Camera Stand
- 1 x Power Adapter
- 1 x Allen Wrench
- 1 x CD-ROM
- 2 x Quick Installation Guide

1.2 System Requirements

Network Interface	10/100Base-TX Ethernet
Monitoring System	Recommended for Internet Explorer 6.0 or later
System Hardware	· CPU: Pentium 4, 1.5GHz or above
	Memory Size : 512 MB or above
	 VGA card resolution : 1024 x 768 or above
	Network bandwidth: In VGA resolution mode, minimum
	upload bandwidth is 1Mbps.
	Optional:
	. Sound Card
	. Microphone (for PC)
	. Speaker (for PC and ICA-750)

1.3 Features

- Day/Night Switch with ICR (IR-cut filter removable)
- ➢ MPEG-4 and M-JPEG dual codec
- 2-Way Audio supported
- > 3GPP for 3G mobile remote application
- Provides 4 Motion Detection area
- E-mail Alert by motion detection and input I/O
- Up to 30 fps for all resolution
- > Built-in microphone and external microphone/speaker
- PoE (IEEE802.3af) supported
- User definable HTTP and HTTPS port number
- > External I/O trigger for various surveillance applications
- Central management software Cam Viewer supported

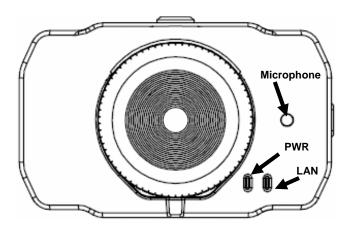


1.5 Outlook



1.5.1 Front Panel

The front panel of ICA-750 is shown below.

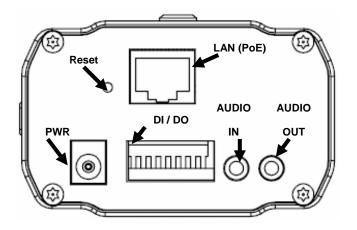


LED Definition

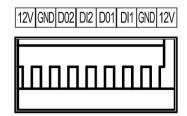
LED	Status	LED Description
	Off	No power.
PWR	On	Power on.
	Blinking	The Power LED will blink during start up (15 ~ 20 sec).
	Off	LAN connection is not detected.
LAN	On	LAN connection is detected.
	Blinking	Data is being transmitted or received via the LAN connection.

1.5.2 Rear Panel

The rear panel of ICA-750 is shown below.



I/O Information



Port Definition

PORT	PORT Description
Reset	Reset to manufacturer default valued and reboot.
	When pressed and held over 10 seconds, the settings of IP
	Camera will be set to the default values.
	Upon completion, the PWE LED will blink three times.
	Connect your Camera to a 10/100Base-TX hub or switch. It is
LAN (PoE)	compliant with IEEE802.3af standard PoE. Both mid-span &
	end-span can be used.
	Connect to the supplied power adapter 12V DC, 1A. When this
PWR	device is obtaining power from PoE already, you don't have to
	attach the power adapter to ICA-750.
DI / DO	The terminal block includes 2 input ports and 2 output ports.
	An external microphone can be plugged in. That will disable the
AUDIO IN	built-in microphone on the front panel.
AUDIO OUT	An external speaker can be plugged in.

Video	
Image Sensor	1/4" Sony CCD, VGA Resolution
Long	F1.6 Fixed Focus
Lens	CS Mount Type, 4 Layers Glass
Video Codec	MPEG-4 and M-JPEG Dual Stream
	640x480
Resolution	320x240
	160x120
Frame Rate	Up to 30 fps @ all resolution
Image Control	AWB, AEC, AGC, Contrast, Brightness auto-iris Control
3GPP	160x120 @15fs, MPEG-4 for mobile phone viewing
Audio	
Audio Codec	G.726 ADPCM
	G.711 PCM
Microphone / Speaker	Bi-directional
Micropriorie / Speaker	Built-in Microphone and external Microphone / Speaker
Interface	
LAN	1 x RJ-45, 10/100Base-TX, Auto MDI/MDI-X, IEEE802.3af
AUDIO	1 x Audio In
AUDIO	1 x Audio Out
DI / DO	2 x Digital In
	2 x Digital Out
Network	
Protocols	TCP/IP, SMTP, HTTP, DHCP, NTP, RTSP/RTP, UPnP, FTP,
FIULUCUIS	DDNS, HTTPS, SYSLOG, JABBER
Management	
Client	Web browser, Cam Viewer software
Security	Username and Password, HTTPS, IP Filter
Motion Detection Area	4 Area definable
E-mail Notification	Triggered by motion detection and input I/O

The following list contains the CS Mount lenses which have been tested on the Internet Camera:

Brand	Model
ΤΟΡΙϹΑ	0416-M1
	0816-M1
	TP-0550WOE
	TP-0560WOE
Computar	T2Z3514CS-2
SpaceCom	TV308DC-2
SpaceCom	TAV2712DC
Pentax	C70220DCPS
Kowa	LMVZ38A-IR
Fujinon	YV2.8x2.8LA-SA2L
	13VG308AS
	13VG2812AS
Tamron	12VG412ASIR
Tarmon	12FM04CST
	13VM308ASIR
	13FM04IR

2. Installation

The followings are instructions for setting up the ICA-750. Refer to the illustration and follow the simple steps to quickly install.

2.1 Hardware Installation

1. Connect an Ethernet cable

Connect one end of an Ethernet cable to the LAN port located on the camera's rear panel and connect the other end to the network device (hub or switch).

2. Attach the external power supply

Attach the provided power adapter to the camera's connector labeled "PWR" on the rear panel.

3. Check the LEDs

- a. The Power LED will turn on briefly, and then start blinking during startup. After startup is completed, the Power LED will remain ON.
- b. The LAN LED will be ON.

2.2 Software Quick Configuration

Initial setup should be performed by using the supplied Windows-based Setup Wizard as follows:

- 1. Insert the bundled product CD into CD-Rom drive to launch the autorun program.
- 2. After the CD's menu displaying, click the "**Setup Wizard**" hyperlink on the menu to start the configuration process.

Note:

If the CD's menu does not appear, click "Start" on the task bar and select "Run" to type "X:\Utility\ SetupWizard \SetupWizard.exe", assume X is your CD-Rom drive. 3. The welcome screen appears. Click on "Setup Camera" button to start the wizard.



4. After clicking the setup camera button, it will auto search for the cameras on your network. Click on 🕨 to continue.

Network Ca	amera Setup Wizard	٢
Selected Camera	Current Setting	
:	Searching for Network Camera. Please wait	
Search Again	Local Time TEXT	
PLAN	E	

5. The next screen below will list the camera on your network. Select it from the list on the left side, the current settings table will be displayed on the right side. Click on **b** to continue.

elect Camera Selected Camera	Cur	rent Setting	_
PL90DF1C	Device Name	PL90DF1C	
	IP Address	192.168.0.21	
	Subnet Mask	255.255.255.0	
	Default Gatway	192.168.0.1	
	Local Date	09/26/2007	
Search Again	Local Time	15:42:48	

6. The administrator login window will pop up. If the Administrator Name and Administrator Password have been set, you will be prompted to enter them. If using the default values, please enter "**admin**" for both the name and the password. Click on "**OK**" to continue.

Networ	ه 🕹 🕲 k Camera Setup Wizard	
Select Cam Selected C PL90DF1C	Administrator Name:	
Search A	Administrator Password: ***** The default administrator name and password is "admin". You will use this password later to access the Web-Based Utility. For enhanced security, change the administrator name and password through theWeb-Based Utility's Password page.	
	OK Cancel	
e		

7. On the following Camera Settings screen, you can fill and configure the Device Name, Description, Time Zone, Local Date and time here. Click on 🕨 to continue.

Network Ca			
Selected Camera	Ca	mera Settings	
PL90DF1C	Device Name Description Time Zone Local Date Local Time	ICA-750 Office (GMT+08:00) Taipei 9 / 26 / 2007 3 : 42 PM	
PLAN	दा		

8. You can choose "Fixed IP Address" or "Dynamic IP Address" here. Click on **b** to continue.



Note:

- 1. Fixed IP Address is recommended, and can always be used.
- 2. Dynamic IP Address can only be used if your LAN has a DCHP Server.

9. If you chose to use Fixed IP Address, the following TCP/IP Settings screen will be displayed. You can configure the IP Address, Subnet Mask, Default Gateway, Primary and secondary DNS. Click on 🖿 to continue.

TCP/IP Settings						
Selected Camera	Currer	nt Settin	gs			
	IP Address	192	168 ,	0	. 21	
PL90DF1C	Subnet Mask	255	255	255	. 0	
	Default Gateway	192	168	0	1	
	Primary DNS	168	95	1	1	
	Secondary DNS	0	0	0	0	
Attention: Please make sure that your PC and the Wireless/Ethernet Network Camera are on the same LAN segment, otherwise you may not be able to connect to the Wireless/Ethernet Network Camera.						

10. The next screen below will display all details of the camera. Click on 🕨 to continue if those settings are correct, or click on 🛋 back to modify any incorrect values.

Network Camera Setup Wizard				
Selected Camera	1	New Settings		
PL90DF1C	Device Name IP Address Subnet Default Gateway Local Date Local Time	ICA-750 192.168.0.21 255.255.255.0 192.168.0.1 09/26/2007 15:42:00		
PLANET I				

11. In this confirmation window below, click on "**OK**" to confirm that you want to save the new settings. If you want to cancel your changes, please click on "**Cancel**".



12. After confirming, the wizard will start to save the new settings as below screen.

Network Camera Settings	Network Camera Setup Wizard		
Selected Camera	New Settings		
PL90DF1C	Saving the new settings, Please wait		
	Local Date 09/26/2007	- 81	
	Looal Time 15:42:00		
]	

13. When the saving process is completed, the prompt window will be displayed as below screen. Click on "**OK**" to finish.



14. The setup wizard now is completed. Click on "Exit" to close the setup wizard.



After modifications, you may now connect the camera with the new configuration via web browser.

3.1 Connecting ICA-750 on your LAN

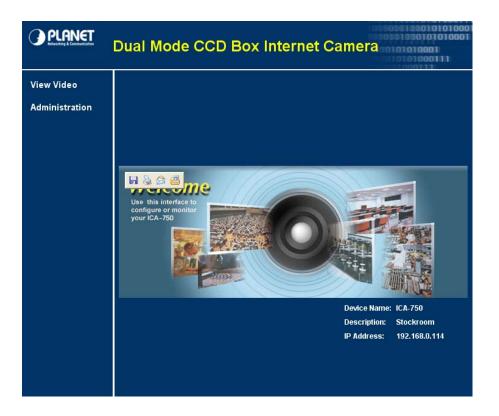
After finishing the Setup Wizard, all LAN users can view live video by using the Internet Explorer. This Chapter has details of viewing live video on your LAN.

- 1. Start the Web browser.
- 2. In the Address box, please enter "http://address". The "address" is the LAN IP address which up to your new configuration from Setup Wizard.

Note:

The LAN IP address of factory default setting is "192.168.0.20".

3. When you connect, the following home page will be displayed.



4. Click on "View Video".

Note:

If the Administrator has restricted access to known users, you will then be prompted for a username and password.

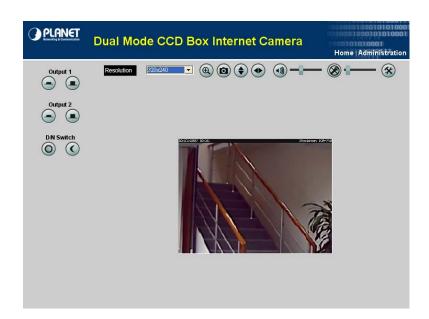
5. The first time you view the camera, you will be prompted to install an ActiveX component as below. You must install this ActiveX component in order to view the video stream in Internet Explorer. Click on "Install" to install.



6. After installing, you will be able to view the live video stream in its own window as below.

Note:

- 1. Video will start playing automatically. There may be a delay of a few seconds while the video stream is buffered.
- 2. There are a number of options available on this screen, accessed by select list, button or icon. The details are described in **Chapter 3.3 – General Options**.



3.2 Connecting ICA-750 via Internet

To establish a connection from your PC to the camera via Internet, please obtain the following information from the Administrator of the camera you wish to connect:

- Internet IP Address or Domain Name of the camera.
- Port number for HTTP connection.
- Login (username, password) if required.

Note:

You can NOT connect to a camera via the Internet unless the camera Administrator has configured the camera and the Internet Gateway / Router used by the camera. Dial-up connections are NOT supported.

The following has details of viewing live video via Internet.

- 1. Start the Web browser.
- 2. In the Address box, please enter "http://address:port". The "address" is public IP address or public domain name, and "port" is the port number.
- 3. When you connect, the following home page will be displayed.



4. Click on "View Video".

Note:

If the Administrator has restricted access to known users, you will then be prompted for a username and password.

5. The first time you view the camera, you will be prompted to install an ActiveX component as below. You must install this ActiveX component in order to view the video stream in Internet Explorer. Click on "Install" to install.



6. After installing, you will be able to view the live video stream in its own window as below.

Note:

- 1. Video will start playing automatically. There may be a delay of a few seconds while the video stream is buffered.
- 2. There are a number of options available on this screen, accessed by select list, button or icon. The details are described in **Chapter 3.3 – General Options**.



These options are always available, regardless of the type of camera you are connected to.

	On		
	Click this to set the output I/O port to ON mode.		
	Off		
	Click this to set the output I/O port to OFF mode.		
	Day		
\bigcirc	Click this to get better video quality during the daytime.		
	Night		
\bigcirc	Click this to get better video quality during the nighttime.		
	Resolution		
AUTO 🔽	Use this drop-down list to select the desired video size.		
	Zoom		
	A digital zoom feature is available. To zoom in on a section of the		
Œ	window, click this icon. Then use your mouse to select the section you		
	want to magnify. Click the icon again to disable the zoom feature.		
	Snapshot		
	Click this to take a single JPEG "snapshot" image of the current video.		
	Flip		
	Click this to have the image swapped top-to-bottom.		
	Mirror		
	Click this to have the image swapped left-to-right.		
	Audio On		
	This icon is displayed if audio is On. Click on the icon to turn audio Off.		
	Audio Upload		
	This icon is displayed when the Speaker option is enabled.		
	Volume		
	If audio is enabled, use this slider to adjust the volume.		
	<u> </u>		
	Setup		
*	Setup Select the desired setup format from the drop-down list.		

3.4 Setting the Focus

After viewing the live video, you need to adjust focus manually by turning the front lens until the video becomes clear.

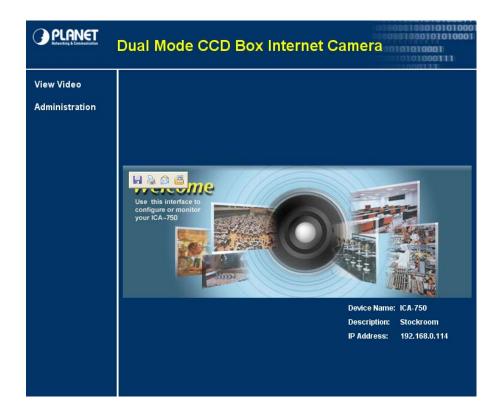
4. Web Management

This Chapter is for the Administrator only and provides setup details of the camera's Web-based Interface. The camera can be configured via your Web Browser. That must have an IP address which is compatible with your network.

Note:

The recommended method to ensure this to use the supplied Windows-based Setup Wizard is described in **Chapter 2.2 – Software Quick Configuration**.

1. After connecting to the camera, click on "Administration" of the home page.

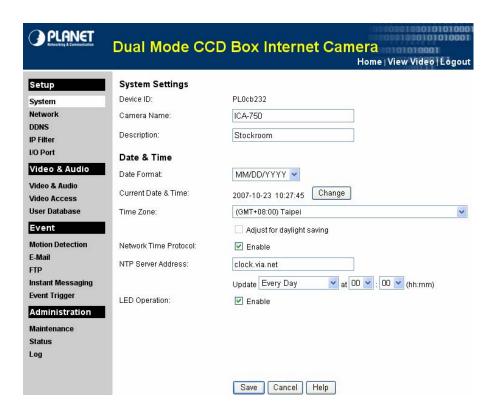


2. You will then be prompted for a username and password.

Note:

- 1. If using the default values, enter "admin" for the name, and "admin" for the password.
- 2. The Administrator's ID / Password can be set on the "Maintenance" of administration menu.

3. After login, the administration page will be displayed as below.



4. The administration menu contains following options.

	System	
Setup	Network	
	DDNS	
	IP Filter	
	I/O Port	
	Video & Audio	
Video & Audio	Video Access	
	User Database	
	Motion Detection	
	E-Mail	
Event	FTP	
	Instant Messaging	
	Event Trigger	
	Maintenance	
Administration	Status	
	Log	

4.1.1 System

This page will be displayed after clicking on "Administration" of the home page or "Setup > System" of the administration menu. It allows you to modify the system information.

Setup	System Settings	
System	Device ID:	PL0cb232
Network	Camera Name:	ICA-750
DDNS PFilter	Description:	Stockroom
/O Port	Date & Time	
Video & Audio	Date Format:	MM/DD/YYYY 🗸
Video & Audio Video Access	Current Date & Time:	2007-10-23 10:27:45 Change
User Database	Time Zone:	(GMT+08:00) Taipei
Event	l	Adjust for daylight saving
Motion Detection	Network Time Protocol:	🗹 Enable
E-Mail TP	NTP Server Address:	clock.via.net
Instant Messaging		Update Every Day 🛛 🗸 at 00 🗸 : 00 🗸 (hh:mm)
Event Trigger	LED Operation:	✓ Enable
Administration		
Maintenance		
Status		

System Settings		
Device ID	This displays the name for the camera.	
Camera Name	This field is used for entering a name to the camera	
Description	This field is used for entering a description, such as the location	
Date & Time		
	Select the desired date format, it will also be used to display the	
	date and time as an overlay on the video image.	
Date Format	The date formats are list as follows:	
Date Format	1. YYYY-MM-DD = Year-Month-Day, e.g. 2007-10-10	
	2. MM/DD/YYYY = Month/Day/Year, e.g. 10/10/2007	
	3. DD/MM/YYYY = Day/Month/Year, e.g. 10/10/2007	
Current Date & Time	This displays the current date and time on the camera.	
	This allows you to modify the date/time settings.	
Change Button	This button will open a sub-page where you have 2 options:	
Change Button	1. Sync with PC: Set the date and time to match your PC.	
	2. Set New Time: Manual enter the correct date and time.	

	Choose the Time Zone for your location from the drop-down list.	
Time Zene	If your location is currently using Daylight Saving, enable the	
Time Zone	"Adjust for daylight saving" checkbox. You must UNCHECK	
	this checkbox when Daylight Saving finishes.	
	Enable or disable the Time Server feature as required.	
Network Time Protocol	If Enabled, the camera will contact a Network Time Server at	
	regular intervals and update its internal timer.	
NTP Server Address Enter the address for the desired NTP server.		
Undete	The Schedule determines how often the camera contacts the	
Update	NTP Server. You can select the desired options.	
LED Operation Enable this if you want to use this function.		

4.1.2 Network

This page will be displayed after clicking on "**Setup > Network**" of the administration menu. It allows you to set the network configuration.

	Dual Mode Co	CD Box Internet Camera Home⊤View Video Lógout
Setup System	IP Address:	 Obtain an IP address automatically (DHCP) Use the following IP address
Network DDNS IP Filter	DNS Server Address:	Obtain DNS server address automatically O Use the following DNS server address
I/O Port Video & Audio	Secondary Port:	 ✓ Enable HTTP Secondary Port ✓ Enable HTTPS Secondary Port ✓ Enable HTTPS Secondary Port ✓ 1024 (1024-65535)
Video & Audio Video Access User Database	RTP/RTSP:	RTSP Port: 554 (554,1024-65535)
Event Motion Detection		RTP Data Port: 5000 (mobile phone only) Max RTP Data Packet: 1400 bytes (400-1400)
Motion Detection E-Mail FTP Instant Messaging Event Trigger	Multicast RTP/RTSP:	 ✓ Enable Multicast Video Address: 224 2 0 1 Video Port: 2240 (1024-65534; Even Value)
Administration Maintenance Status		Audio Address: 224 0 1 Audio Port: 2242 (1024-65534; Even Value) Time to Live: 16 (1-255)
Log	UPnP:	 ✓ Enable Discovery ✓ Enable Traversal (Port Mapping)
	QoS:	 Enable QoS Mode (for Video and Audio) Save Cancel Help

IP Address			
Obtain an IP Address	If selected, the camera will obtain its IP address and related info		
	from a DHCP Server. Only select this option if your LAN has a		
Automatically	DHCP Server.		
	If selected, you must assign the following data to the camera.		
Lies the following ID	IP Address:		
Use the following IP	Enter an unused IP address from the range used on your LAN.		
Address	Subnet Mask: Use the same value as PCs on your LAN.		
	Default Gateway: Use the same value as PCs on your LAN.		
DNS Server Address			
Obtain DNS server	If selected, the camera will use the DNS address or addresses		
	provided by the DHPC server. This option is only available if the IP		
address automatically	address setting is Obtain an IP address automatically.		
	Primary DNS server:		
Use the following DNS	Use the same value as PCs on your LAN.		
server address	Secondary DNS server:		
	This DNS will be used if the Primary DNS does not respond.		

Secondary Port			
	This sets the port number for HTTP connection to the camera,		
	whether for administration or viewing video.		
Enable HTTP	If enabled, you can connect with either port 80 or the secondary		
Secondary Port	port. You must enter the secondary port number (1024~65535) in		
	the field provided.		
	This sets the port number for HTTPS connection to the camera,		
	whether for administration or viewing video.		
Enable HTTPS	If enabled, you can connect with either port 443 or the secondary		
Secondary Port	port. You must enter the secondary port number (1024~65535) in		
	the field provided.		
	RTP / RTSP		
	The RTSP (Real Time Streaming Protocol) is a standard for		
RTSP Port	connected clients to control streaming data (MPEG-4) over the		
	World Wide Web. Enter the RTSP Port number (1024~65535) in the		
	field provided. The default RTSP Port is 554.		
RTP Data Port	The RTP (Real Time Transport Protocol) is an Internet protocol for		
	transmitting real-time data such as audio and video.		
Max RTP Data Port	Max RTP Data Packet field will let users limit the size of the file.		
	Enter the desired value between 400 and 1400.		
	Multicast RTP / RTSP		
Video Address	Enter the address of video.		
Video Port	Enter the desired value (1024~65534) in the field provided. The		
	number you entered must be even values.		
Audio Address	Enter the address of the audio.		
Audio Port	Enter the desired value (1024~65534) in the field provided. The		
	number you entered must be even values.		
Time to Live	Enter the desired value (1~255), if the packets fail to be delivered to		
	their destination within.		
	UPnP		
	If enabled, the camera will broadcast its availability through UPnP.		
Enable Discovery	UPnP compatible systems such as Windows XP will then be able to		
	detect the presence of the camera.		
Enable Traversal	If enabled, the HTTP connection from your Web browser can use		
	secondary port instead of port 80 to access the camera.		
	QoS		
Enable QoS Mode	If enabled, the throughput level (for Video and Audio) is guaranteed		
	through QoS (Quality of Service).		

4.1.3 DDNS

This page will be displayed after clicking on "**Setup > DDNS**" of the administration menu. It allows you to set DDNS for other Internet users to connect to your camera via domain name allocated by the DDNS service provider.

	Dual Mode CC	D Box Internet Camera Home View Video Logout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access User Database Event Event FTP Instant Messaging Event Trigger Administration Maintenance Status Log	Enable DDNS Service Provider: Domain (Host) Name: Account/E-Mail: Password/Key: Check WAN IP Address:	DynDNS.org Web Site Every 24 Hrs Starting at 12 Hour(s) Or Minute(s)
		Save Cancel Help

Dynamic DNS			
Enable DDNS	Enable or disable the DDNS function, as required.		
Service Provider	Choose a service provider from the list.		
Web Olte Deutres	This allows you to open a new window and connect to the Web		
Web Site Button	site for the selected DDNS service provider.		
Domain (Heat) Nama	Enter the Domain Name (Host Name) allocated to you by the		
Domain (Host) Name	DDNS server provider.		
Account / E-Mail	Enter the login name for the DDNS account.		
Password / Key	Enter the password for the DDNS account.		
	Set the schedule for checking if the Internet IP address has		
	changed. If the IP address has changed, the DDNS Server will		
	be notified.		
Check WAN IP Address	NOTE: If the DDNS service provider provides some software to		
	perform this IP address update or notification, you should NOT use		
	this software. The update is performed by the camera.		

4.1.4 IP Filter

This page will be displayed after clicking on "**Setup > IP Filter**" of the administration menu. It helps you to allow or deny the IP address by filtering.

Setup	IP Filter:	Enable and Deny	the following IP Address 🔽		
System					
Network	Range 🔽	Start IP ~ End IP	1:	~	
DDNS		1		1	
IP Filter I/O Port	Single 🚩	IP Address	2:		
	Single 🔽	IP Address	3:		
Video & Audio	Single 🔽	IP Address	4:		
/ideo & Audio	Single	IF Address	4.		
Video Access	Single 🔽	IP Address	5:		
User Database	Single 🔽	IP Address	6:		
Event		1	_		
Motion Detection	Single 🚩	IP Address	7:		
E-Mail	Single 🔽	IP Address	8:		
FTP	Single 🗸	IP Address	9:		
Instant Messaging					
Event Trigger	Single 💙	IP Address	10:		
Administration					
Maintenance					
Status					
Log					

IP Filter		
	The IP Filter feature allows administrators to control network	
IP Filter	camera access by filtering IP address. Select the desired	
	option from the drop-down list.	
Single	Enter an IP address you would like to allow or deny.	
Range	Enter a range of IP addresses you would like to allow or deny.	

4.1.5 I/O Port

This page will be displayed after clicking on "**Setup > I/O Port**" of the administration menu. It allows you to set input / output port state and trigger.

	La se				Home View Video Logo
Setup	inp	ut Ports			
System Network	#	Current State	Triggered When		
DDNS	1	Low	Low		
P Filter / <u>O Port</u>	2	Low	Low 💌		
Video & Audio	Out	tput Ports			
/ideo & Audio					
/ideo Access	#	Current State	Default State	Manual Trigger	Action When Triggered
Jser Database	1	High	High 🔽	ON maps to High 💌	None 💌
Event			1 Back	ON assessed to Libely and	None 🗸
Notion Detection	2	High	High 💙	ON maps to High 🚩	None 🎽
-Mail					
TP					
nstant Messaging					
Event Trigger					
Administration					
Maintenance					
Status					
_og					

Input Ports			
Current State	It indicates the current state of the input port. Once the		
	configured state is happened, it will trigger the event actions.		
Triggered WhenSelect the desired state (High, Low, Rising, Failing).			
Output Ports			
Current StateIt indicates the current state of the output port.			
Default State Select the desired option from the drop-down list.			
Manual Trigger	Select the option to control the output state.		
Action When Triggered	If an event is happened, it will trigger the event alerting.		

4.2.1 Video & Audio

This page will be displayed after clicking on "Video & Audio > Video & Audio" of the administration menu. It allows you to adjust the video and audio configuration.

PLANET	Dual Mode CCE) Box Internet Camera Home View Video Lógout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video & Audio Video Access User Database Event Event Event Instant Messaging Event Trigger Administration Maintenance Status Log	MPEG-4 Settings Resolution: Video Quality Control: Constant Bit Rate Fixed Quality Max Frame Rate: MJPEG Settings Resolution: Fixed Video Quality: Max Frame Rate: Mobile Settings Enable Mobile Streaming Video Adjustments Power Line Frequency: White Balance: Brightness: Sharpness: Contrast: Options Penable Microphone Penable Microphone Penable Speaker Penable Speaker Penable Time Stamp Enable Night Vision Sche Start Time: End Time:	60Hz (for fluorescent lighting) Auto Image: Comparison of the second

MPEG-4 Settings		
Resolution	Select the desired video resolution format.	
Video Quality	Constant Bit Rate: Select the desired bit rate.	
Control	Fixed Quality: Select the desired option.	
Max. Frame Rate	Select the desired Maximum bandwidth for the video stream.	
	Note that you can specify EITHER the Bandwidth OR the Frame Rate,	
	not both. If the Bandwidth is defined, the frame rate will be adjusted as	
	necessary to achieve the specified frame rate.	
	The default value for bandwidth is Unlimited, which allows you to	
	specify the desired frame rate.	

	MJPEG Setting	
Resolution	Select the desired video resolution format.	
Fixed Video		
Quality	Select the desired fix quality.	
	Select the desired Maximum bandwidth for the video stream.	
	Note that you can specify EITHER the Bandwidth OR the Frame Rate,	
	not both. If the Bandwidth is defined, the frame rate will be adjusted as	
Max. Frame Rate	necessary to achieve the specified frame rate.	
	The default value for bandwidth is Unlimited , which allows you to	
	specify the desired frame rate.	
	Mobile Settings	
Enable Mobile	Enable streaming video for the mobile device by checking this checkbox.	
Streaming		
Resolution	The default resolution is set to 160x120.	
	Constant Bit Rate:	
Video Quality	Select the desired fix bit rate.	
Control Fixed Quality:		
	Select the desired option.	
Max. Frame Rate	Select the desired Maximum bandwidth for the video stream.	
Access Code	Enter the code for accessing the live video from camera through mobile	
	phone connection.	
	Video Adjustments	
Power Line	Select the power line frequency (50Hz or 60Hz) used in your region, to	
Frequencyimprove the picture quality under florescent lighting.		
White Balance	Select the desired option to match the current environment and lighting.	
	If necessary, you can adjust the brightness to obtain a better image. For	
Brightness	example, if the camera is facing a bright light, the image may be too	
	dark. In this case, you can increase the brightness.	
Sharpness	Select the desired option for the sharpness.	
Contrast	Select the desired option for the contrast.	
	Options	
Microphone	Enable audio by checking this checkbox. Using audio will increase the	
	bandwidth requirements slightly.	
Audio Type	Select the desired audio type.	
Speaker	Enable speaker sound by checking this checkbox.	
Time Stamp	If enabled, the current time will be displayed on the Video image.	
	Enable this setting if you want text to be displayed on the Video image,	
Toxt Display	and enter the desired text - up to 20 characters. This feature is often	
Text Display	used to identify each camera when multiple cameras are installed.	

Day/Night Switch			
Enable Night	Enable Night switch schedule by checking this checkbox.		
Vision Schedule			
Start Time	Choose the desired start time using a 24 hr clock.		
End Time	Choose the desired start time using a 24 hr clock.		

4.2.2 Video Access

This page will be displayed after clicking on "Video & Audio > Video Access" of the administration menu. It allows you to set the rules of accessing.

	Dual Mode Co	CD Box Internet Camera Home View Video Logout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access User Database Event Motion Detection E-Mail FTP Instant Messaging Event Trigger Administration Maintenance Status Log	User Access: Video Access: Access Schedule Add New Schedule Day: Start Time: End Time:	 Enable Security Checking Enable Scheduled Video Access Every day 08:00,20:00 Delete Delete Every day 08 • : 00 • (hh:mm) 20 • : 00 • (hh:mm) Add Clear
		Save Cancel Help

	User Access		
	If enabled: Require login, users will be prompted for a username and		
	password when they connect to the camera to view video. The		
Enable Security	camera administrator must use the "User Database" option to create		
Enable Security	the desired users.		
Checking	If disabled: No login required, all users do not have to provide a		
	username and password when they connect to the camera to view		
	video.		
Video Access			
	If enabled: Camera is available during the scheduled periods and		
	unavailable at other times. If this option is selected, you need to define		
Enable Scheduled	a schedule. If no schedule is defined, this option is always disabled.		
Video Access	If disabled: The option will remain disabled until you enable it.		
	Note that regardless of which setting is chosen, Administrator can		
ALWAYS access the camera and view live video.			
	Access Schedule		
Seheduled Devices	This displays all periods you have entered into the database. If you		
Scheduled Periods	have not entered any periods, this list will be empty.		
Delete Button	Use the Delete button to delete the selected item in the list.		

	Add New Schedule
Day	Choose the desired option for the period.
Start Time	Enter the start time using a 24 hr clock.
End Time	Enter the end time using a 24 hr clock.
Add Button	Click this button to add a new period.
Clear Button	Click this button to clear the adjust values.

4.2.3 User Database

This page will be displayed after clicking on "Video & Audio > User Database" of the administration menu. It allows you to create the desired users.

	Dual Mode C	CD Box Internet Camera Home View Video Logout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access User Database Event	Existing Users	james - (Viewer) kelly - (Operator) Edit Delete Delete All
Motion Detection	User Properties	
E-Mail	User Name:	
FTP Instant Messaging Event Trigger	User Password:	
Administration	Confirm Password:	
Maintenance	Control Level:	
Status Log		Add Clear
		Save Cancel Help

	Existing Users		
User List	This displays all users you have entered into the User database. If you		
User List	have not entered any users, this list will be empty.		
Edit Button	Use these buttons to manage the user database.		
Delete Button	Use these buttons to manage the user database.		
Delete All Button	Use these buttons to manage the user database.		
	User Properties		
	Enter the name for the user here.		
User Name	Spaces, punctuation, and special characters must NOT be used in the		
USEI Maille	name. The name is case insensitive (case is ignored), so you can not		
	have 2 names which differ only by case.		
User Password	Enter the password for the user.		
Confirm Password	Re-enter the password for the user, to ensure it is correct.		
	Select the desired control level for the user you plan to add.		
Control Level	Note: Operator level allows user to switch day/night version and to		
	trigger output ports manually.		
Add Button	Click this button to add a new user, using the data shown on screen.		
Clear Button	Click this button to clear the input fields, ready to add a new user.		

4.3.1 Motion Detection

This page will be displayed after clicking on "Event > Motion Detection" of the administration menu. It allows you to set detection areas.

	Dual Mode CCD Box Inte	e rnet Camera Home View Video Lógout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video & Audio Video & Audio Video Access User Database Event Motion Detection E-Maii FTP Instant Messaging Event Trigger Administration Maintenance Status Log	Set Detection Areas	Stokran 16-20
		Help

Set Detection Areas		
	You can set the full screen or areas of the video image to be examined.	
	Note that Motion detection can be triggered by rapid changes in lighting	
Area Screen	condition, as well as by moving objects. For this reason, it should only be	
	used indoors.	
Threshold	Adjust the threshold of detection for each area.	

4.3.2 E-Mail

This page will be displayed after clicking on "Event > E-Mail" of the administration menu. It allows you to set the E-Mail alert.

				e View Video Logo
Setup	Primary SMTP Server			
System	SMTP Server Address:			
etwork DNS	Authentication:	None	~	
P Filter	SMTP Login name:			
D Port	SMTP Password:			
ideo & Audio	SMIP Password.			
ideo & Audio	POP server name:			
ideo Access	Show "From" as:			(E-Mail Address
lser Database				1.10
vent	Secondary SMTP Serv	er		
		ei		
0	Secondary SMTP (enable		t connect to the primary	SMTP)
lotion Detection -Mail	· · · · · · · · · · · · · · · · · · ·		t connect to the primary	SMTP)
lotion Detection -Mail TP	Secondary SMTP (enable SMTP Server Address:	e this if the camera can no		SMTP)
lotion Detection -Mail TP Istant Messaging	Secondary SMTP (enable		t connect to the primary	SMTP)
lotion Detection -Mail TP Istant Messaging vent Trigger	Secondary SMTP (enable SMTP Server Address:	e this if the camera can no		SMTP)
lotion Detection -Mail TP Istant Messaging vent Trigger dministration	Secondary SMTP (enable SMTP Server Address: Authentication:	e this if the camera can no		SMTP)
Iotion Detection -Mail TP Istant Messaging vvent Trigger Vdministration Maintenance	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password:	e this if the camera can no		SMTP)
Iotion Detection -Mail TP Istant Messaging vent Trigger Vent Trigger Mininistration laintenance itatus	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password: POP server name:	e this if the camera can no		SMTP)
Notion Detection -Mail TP Instant Messaging Astant Messaging Astant Messaging Astant Messaging Administration Maintenance Status	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password:	e this if the camera can no		
Iotion Detection -Mail TP Istant Messaging vent Trigger Vent Trigger Mininistration laintenance itatus	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password: POP server name:	e this if the camera can no		
lotion Detection -Mail TP Istant Messaging vent Trigger dministration laintenance tatus	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password: POP server name: Show "From" as:	e this if the camera can no		
Iotion Detection -Mail TP Istant Messaging vent Trigger Vent Trigger Mininistration laintenance itatus	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password: POP server name: Show "From" as: E-Mail Setup	e this if the camera can no		
Action Detection Mail TP Instant Messaging Avent Trigger Administration Maintenance Status Log	Secondary SMTP (enable SMTP Server Address: Authentication: SMTP Login name: SMTP Password: POP server name: Show "From" as: E-Mail Setup E-Mail Address #1:	e this if the camera can no		SMTP)

	Primary SMTP Server		
SMTP Server Address	Enter the address of the SMTP Server to be used to send E-Mail.		
Authentication	Select the desired Authentication type for the SMTP Server.		
SMTP Login name	Enter your login name for the SMTP Server.		
SMTP Password	Enter your password for the SMTP Server.		
POP server name	Enter the name for the POP Server.		
Show "From" oo	Enter the E-Mail address to be shown in the "From" field when the		
Show "From" as	E-Mail is received.		
	Secondary SMTP Server		
Secondary SMTD	Check the box to upload to the Secondary SMTP if the camera can		
Secondary SMTP not connect to the primary SMTP.			
SMTP Server Address	Enter the address of the SMTP Server to be used to send E-Mail.		
Authentication	Select the desired Authentication type for the SMTP Server.		
SMTP Login name	Enter your login name for the SMTP Server.		

SMTP Password	Enter your password for the SMTP Server.		
POP server name	Enter the name for the POP Server.		
Chow "From" oo	Enter the E-Mail address to be shown in the "From" field when the		
Show "From" as	E-Mail is received.		
	E-Mail Setup		
E mail Address	Enter at least one E-Mail address; the 2nd and 3rd addresses are		
E-mail Address	optional. The alert will be sent to the addresses specified here.		
Subject	Enter the desired text to be shown as the "Subject" for the E-Mail		
Subject	when it is received. Subject up to 20 characters.		

4.3.3 FTP

This page will be displayed after clicking on "**Event > FTP**" of the administration menu. It allows you to set FTP upload.

	Dual Mode C	CD Box Internet Camera Home View Video Logout
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access User Database Event Motion Detection	Primary FTP FTP Server: Login Name: Password: □ Enable Passive Mode File Path Name: Secondary FTP □ Secondary FTP (enable) FTP Server:	Port: 21
E-Mail E-Mail FTP Instant Messaging Event Trigger Administration Maintenance Status Log	Login Name: Password: Enable Passive Mode File Path Name:	

	Primary FTP		
FTP Server	Enter the address of the FTP Server.		
Port	Enter the Port of the FTP Server to be connected.		
Login name	Enter your login name for the FTP Server.		
Password	Enter your password for the FTP Server.		
Enable Passive Mode	Check the box to enable the Passive mode feature of the FTP.		
File Path Name	Enter the file path/name of the FTP.		
	Secondary FTP		
Secondary FTP Check the box to upload to the Secondary FTP if the camera can n			
Secondary FTF	connect to the primary FTP.		
FTP Server	Enter the address of the FTP Server.		
Port	Enter the Port of the FTP Server to be connected.		
Login name	gin name Enter your login name for the FTP Server.		
Password	Enter your password for the FTP Server.		
Enable Passive Mode	Check the box to enable the Passive mode feature of the FTP.		
File Path NameEnter the file path/name of the FTP.			

4.3.4 Instant Messaging

This page will be displayed after clicking on "Event > Instant Messaging" of the administration menu. It allows you to set Jabber and HTTP notification.

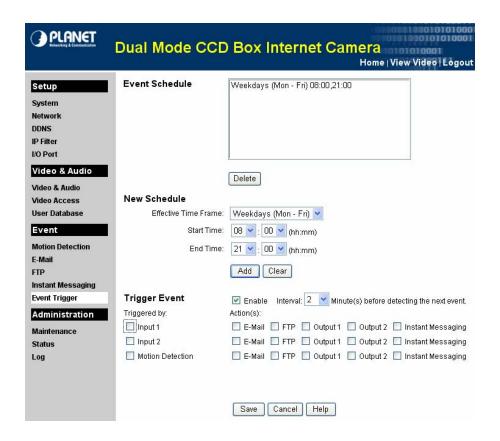
	Dual Mode CC	D Box Internet Camera Home View Video Logou
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access	Jabber Server Address: Login ID: Password: Send To: Message:	Enable
User Database EVent Motion Detection E-Mail FTP Instant Messaging Event Trigger Administration Maintenance Status Log	HTTP Notification URL: Proxy Server Name: Port Number: Method:	Enable (optional) 80 POST M

	Jabber		
Enable	Enable this checkbox to use Jabber which is a free Instant Messaging.		
Server Address	Enter the address of your Jabber server.		
Login ID	Enter your login ID for the Jabber account.		
Password	Enter your password for the Jabber account.		
Send To	The log will be sent to the E-Mail address you specified here.		
Message	Enter the message you wish to attach with the sending log.		
	HTTP Notification		
Enable	Enable this checkbox to use the HTTP Notification.		
URL	Enter the URL of your HTTP notification server.		
Brown Somer Nome	Specify the proxy server name in the provided field if the camera needs		
Proxy Server Name	to pass through a Proxy Server to do the HTTP notification.		
Port Number	Enter the port number for the proxy server.		
Select the desired method of form data encoding.			
	Get:		
Method	It should be used if and only if the form processing is independent,		
	which typically means a pure query form. Generally it is advisable to do		
	S0.		

Post:
If there are problems related to long URLs and non-ASCII character
repertoires, which can make it necessary to use "POST" even for
independent processing.

4.3.5 Event Trigger

This page will be displayed after clicking on "**Event > Event Trigger**" of the administration menu. It allows you to set the schedule and actions of the event.



Event Schedule		
Schedule List	The Event Schedule shows all the event types currently configured in	
	the camera	
New Schedule		
Effective Time	Change the desired option for the period	
Frame	Choose the desired option for the period.	
Start Time	Choose the desired start time using a 24 hr clock.	
End Time	Choose the desired end time using a 24 hr clock.	
Trigger Event		
Enable	Check to perform all of the events that were configured and	
Enable	scheduled.	
Interval	Select the desired option for the events interval. (* "0" = No Delay)	
	Input 1 / 2: This describes the states that the inputs must be in for an	
	event to be triggered. Only one input can be used, also note that the	
Trigger by	states for all the inputs used must be reached before the event will	
Trigger by	be triggered.	
	Motion Detection: Movement in a motion detection window can be	
	used to trigger events.	

	E-Mail: If checked, an E-Mail (with "Attachment") will be delivered to
	the SMTP server. (SMTP Server must be configured on the E-Mail
	page.)
	FTP: If checked, an FTP upload will be activated to the FTP server
Actions	(FTP servers must be configured on the FTP page).
Actions	Output 1 / 2: If checked, the output ports state will be activated as
	configured (Output ports must be configured on the I/O Port page).
	Instant Messaging: If checked, an Instant Messaging (IM) will be
	delivered to the Jabber server (Jabber server must be configured on
	the Instant Messaging page).
	JPEG Image type -
	Frame Rate: Select the desired capture rate for the JPEG image
	here.
	Pre/Post Capture: Select the desired length. The snapshot of the
	JPEG image depends on this setting, and also the file size and
Attachment Type	degree of compression.
	Video type -
	Video Format: Select the desired type for the video file.
	Pre/Post Capture: Select the desired length. The size of the file
	depends on this setting, and also the Video size and degree of
	compression.

4.4.1 Maintenance

This page will be displayed after clicking on "Administration > Maintenance" of the administration menu.

	Dual Mode CCD	Box Internet Camera Home View Video Logour
Setup System Network	Administrator Login Administrator ID:	admin
DDNS IP Filter I/O Port Video & Audio	Administrator Password: Verify Password:	••••• ••••• Save Cancel
Video & Audio Video Access User Database Event	Firmware Upgrade Upgrade File:	[瀏覽]
Motion Detection E-Mail FTP	Backup & Restore	Start Clear File Name
Instant Messaging Event Trigger Administration Maintenance	Backup Configuration File: Restore Configuration File:	Backup (瀏覽) Restore Clear File Name
Status Log	Restore Factory Defaults: Restart Camera:	Defaults Restart
		Help

Administrator Login		
Administrator ID	Enter the name for the Administrator here.	
Administrator Password	The password for the Administrator.	
Verify Password	Re-enter the password to ensure it is correct.	
	Firmware Upgrade	
Lingrado Filo	Click on "Browse" button and browse to the location on your	
Upgrade File	PC where you stored the firmware file. Select this file.	
	Click on this button to start the firmware. When the upgrade is	
Start Button	finished, the camera will restart, and this management	
	connection will be unavailable during the restart.	
Clear File Name Button	This does NOT stop the Upgrade process if it has started. It	
Clear File Name Button	only clears the input for the "Upgrade File" field.	
Backup & Restore		
Paakup Configuration File	Click on "Backup" button to save the current configuration	
Backup Configuration File	information to a text file.	

Postore Configuration File	Click on "Restore" button to reinitialize the camera to load the
Restore Configuration File	new updated software. Do this after loading the upgrade file.
	This does NOT stop the Restore process if it has started. It
Clear File Name	only clears the input for the "Restore Configuration File" field.
Destana Fastami Defaulta	Click on "Defaults" button to reloads all default settings on
Restore Factory Defaults	the camera.
Restart Camera	Click on "Restart" button to restarts the camera.

4.4.2 Status

This page will be displayed after clicking on "Administration > Status" of the administration menu.

		CD Box Internet Camera Home View Video Logo
Setup	System	
System	Device Name:	ICA-750
Network	Description:	Stockroom
DDNS	FAV version:	V1.0.01
IP Filter I/O Port	Network	
Video & Audio	MAC Address:	00:c0:02:0c:b2:32
	IP Address:	192.168.0.114
Video & Audio	Network Mask:	255.255.255.0
Video Access User Database	Gateway:	192.168.0.1
Event	MPEG-4	
Motion Detection	Resolution:	640*480
E-Mail	Video Quality:	Very High
FTP	Frame Rate:	30
Instant Messaging	MJPEG	
Event Trigger	Resolution:	640*480
Administration	Video Quality:	Very High
Maintenance	Frame Rate:	30
Status		
Log		
		Help

	System	
Device Name	This shows the name of the camera.	
Description	This shows the description of the camera, such as location.	
F/W version	The version of the current firmware installed.	
	Network	
MAC Address	The current IP address of the camera.	
IP Address	The IP Address of the camera.	
Network Mask	The network mask associated with the IP address above.	
Gateway	The IP Address of the remote Gateway associated with the IP Address	
	above.	
	MPEG-4 / MJPEG	
Resolution	The image size of the video stream.	
Video Quality	This displays the image quality of the video stream.	
Frame Rate	This displays the frame rate of the video stream.	

Buttons		
Help	Click on this button will call the help window.	
Refresh	Update the log and any other data on screen.	

4.4.3 Log

This page will be displayed after clicking on "**Administration > Log**" of the administration menu.

PLANET	Dual Mode CCD Box Internet Camera Home View Video L	110001 10001
Setup System Network DDNS IP Filter I/O Port Video & Audio Video & Audio Video Access User Database Event Motion Detection E-Mail FTP Instant Messaging Event Trigger	<pre>10/23/2007 11:03:56 HTTP: Streaming end (HTTP: 192.168.0.106, admin). 10/23/2007 11:03:12 HTTP: Streaming start (HTTP: 192.168.0.106, admin). 10/23/2007 11:03:08 HTTP: Streaming start (HTTP: 192.168.0.106, admin). 10/23/2007 10:242 HTTP: Streaming end (HTTP: 192.168.0.106, admin). 10/23/2007 10:26:31 HTTP: Streaming start (HTTP: 192.168.0.106, admin). 10/23/2007 10:26:31 HTTP: Synchronization OK. 10/23/2007 10:17:42 NTP: Synchronization OK. 10/23/2007 10:17:26 Network: Lan activated.</pre>	×
Maintenance Status Log	Refresh Clear Log Enable Syslog Service Syslog Server Address Save Cancel	

Log		
System LogThis is a log of system activity.		
Refresh Button	Click on this to update the data shown on screen.	
Clear Log	Click this button to restart the log.	
Enable Syslog Service	Check the box to enable the System Log Server feature.	
Syslog Server Address	rver Address Enter the address of the Syslog Server.	

Appendix A --- Streaming Video / Audio Solution

Streaming video is a sequence of "moving images" that are sent in compressed form over the Internet and displayed by the viewer as they arrive. With streaming, a Web user does not have to wait to download a large file before seeing the video or hearing the sound. Instead, the media is sent in a continuous stream and is played as it arrives.

To snapshot a JPEG image from the camera with specified resolution and quality: http://<ip>/img/snapshot.cgi?[size=<value>][&quality=<value>]
Size = 1 (160*120) 2 (320*240) 3 (640*480)
Quality = 1 (Very low) 2 (Low) 3 (Normal) 4 (High) 5 (Very high)

• To stream M-JPEG video from the camera (M-JPEG mode only) http://<ip>/img/mjpeg.htm

• To stream video through the RTP/RTSP protocol from camera (MPEG-4 mode only) rtsp://<ip>/img/media.sav

Note:

Users need to specify the desired protocol in the players.

• To snapshot a JPEG image (160*120, very low quality) through a 3G mobile phone: http://<ip>/img/mobile.cgi

Appendix B --- Enable ActiveX options on your PC

Your Internet Explorer security settings must allow for the web page to work correctly. To use the ICA-750, user must setup his IE browser as follows:

From your IE browser \rightarrow "Tools" \rightarrow "Internet Options..." \rightarrow "Security" \rightarrow "Custom Level...", please setup your "Settings" as follow.

Enable the 3 options as below,

- Download the signed ActiveX controls
- Download the unsigned ActiveX controls
- Initialize and script the ActiveX controls not masked as safe to Prompt

Edit View Favorites Tools Help	
Back O D A O Search Favoril	tes 🍘 History 🔄 🚽 🗾 📃
General Security Content Connections Progra	
Select a Web content zone to specify its security	1
	Settings:
Internet Local intranet Trusted sites	ActiveX controls and plug-ins Download signed ActiveX controls O Disable
Internet This zone contains all Web sites you haven't placed in other zones	Enable O Prompt Oownload ansigned ActiveX controls O Disable
- Security level for this zone	6 Prompt 9 Initialize and script ActiveX controls not marked as safe
Custom settings. - To change the settings, click Custo - To use the recommended settings,	A mataline of the Ships President of the Matheed of Ships O Disable O Enable T O Prompt O Disable O Enable T
4 Custom Level	Reset custom settings Reset tn: Medium Reset
ОК	8 OK Cancel

By now, you have finished your entire PC configuration.

Appendix C --- Bandwidth Estimation

The frame rate of video transmitted from the ICA-750 depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your ICA-750.

The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the ICA-750 may be varying.

Quality	640 x 480 (VGA)	320 x 240 (QVGA)	160 x 120 (QQVGA)
Very Good	4000 Kbps @ 30fps	1000 Kbps @ 30fps	800 Kbps @ 30fps
Good	3200 Kbps @ 30fps	800 Kbps @ 30fps	400 Kbps @ 30fps
Normal	1200 Kbps @ 30fps	300 Kbps @ 30fps	200 Kbps @ 30fps
Low	480 Kbps @ 30fps	120 Kbps @ 30fps	100 Kbps @ 30fps
Very Low	160 Kbps @ 30fps	40 Kbps @ 30fps	40 Kbps @ 30fps

Note:

Audio streaming also takes bandwidth around 5 kbps to 64kbps. Most xDSL/Cable modem upload speeds may not even reach up to 128 kbps. Thus, you may not be able to receive any video while streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.