AirForce Box Series H.264 HD AiP cameras

INSTRUCTION MANUAL



Summary

The Air series includes Full HD AiP cameras that adopt the latest compression technologies providing Triple Streaming of H.264 and JPEG in different resolutions. ACUMEN's Triple Streaming technology transmits digital video at various bitrates and frame rates to suit both high and low bandwidth network environments.

The AirForce series cameras are equipped with progressive mega-pixel CMOS sensors providing superior video quality. ACUMEN's DSP technologies provide Wide Dynamic Range (WDR), 3D noise reduction, Backlight Compensation (BLC), adjustable shutter speed, and privacy mask features.

The built-in intelligent video analytics engine enables audio and motion detection. Other useful features include two-way audio, SD card recording, mobile phone live access, JPEGs sent as email snapshots, and JPEGs sent to an FTP.

The AirForce series cameras have the latest technologies providing mega-pixel H.264 video, outstanding DSP capacities, built-in video analytics, and built-in PoE. All AirForce cameras are ONVIF compliant.

ACUMEN'S AIM HD software and AiP cameras maximize system performance providing an integrated system solution for migrating to IP Video.

Key Features

- Full HD AiP cameras capable of recording at 15 FPS
- Supports dual encoding formats of H.264 and JPEG
- Triple Streaming technology, 3 concurrent streams available
- Moon Light function for low light conditions
- Day or night video quality scheduling
- Audio and motion detection for notification via email or FTP
- Supports 3D DNR, WDR, BLC, adjustable shutter speed and privacy mask
- Two-way audio (for two-way audio models only)
- Bitrate and frame rate adjustable on-the-fly
- Supports Android, iPad, and iPhone mobile live monitoring
- Supports dynamic DNS (DDNS) and network time protocol (NTP)
- Supports PCM/G.711
- Supports ONVIF protocol
- Supports AIM Software HD 2.6

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Other References

Mobile phone

For free mobile surveillance, refer to the eMobile document in the product CD or download the document from our company website.

ACUMEN Universal ActiveX Control

Sample codes and documents are included in the product CD and can be downloaded from our company website.

ACUMEN HTTP API

For non-ONVIF integration, please see the ACUMEN HTTP API document. We adopt HTTP API document for all ACUMEN AiP cameras.

Caution

- Do not drop or strike the equipment
- · Do not install the equipment near any naked flames or heat sources
- Do not expose this unit to rain, moisture, smoke or dust environments
- Do not cover the opening of the cabinet with cloth and/or plastic or install this unit in poor ventilated places. Allow 10cm between this unit and its surroundings
- Do not continue to operate the unit under abnormal conditions such as smoke detection, strange smell or no display on screen whilst power is turned on
- Do not touch the power connection with wet hands
- Do not damage the power cord or leave it under pressure
- To avoid unnecessary magnetic interference, do not operate this unit near magnets, speaker systems, etc.
- All connection cables should be grounded properly



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Chapter 1 System Overview

Chapter 1-1 System Requirements

The AiP camera's Full HD H.264 video compression technology provides high compression rate and superior video quality. However, the performance highly depends on both the CPU computational power of the users PC and the network bandwidth for transmitting video streaming. The following sections specify the system requirements for running a Full HD H.264 AiP camera.

Chapter 1-2 Software Requirements

ACUMEN Universal ActiveX software components are required for web interface displaying JPEG or H.264 Full HD video. When you first login to the AiP camera using Internet explorer, a security warning dialog box will appear for ACUMEN Universal ActiveX. Click "Install" to download.

This webpage wants to run the following add-on: 'AiM Universal ActiveX Control Module' from 'ACUMEN INTERCONTINENTAL CORP.'.		ж
White S the fish.		

Chapter 2 Before accessing AiP cameras

Before accessing the AiP camera, make sure that the camera's RJ-45 network, audio, and power cables are properly connected. To set the IP address, consult your network administrator. The default IP address for each AiP camera is 192.168.0.200. Users can use the default IP address to verify the camera's network connection.

Chapter 2-1 Configuring IP addresses using IP scan utility

To configure an IP address using the IP scan utility, copy the IP scan application from the installation CD to your local PC. Alternatively, you can execute the IP scan software from the installation CD directly. The IP scan utility can also be downloaded from our company website. To change an IP address, subnet mask, gateway, or HTTP port, follow the steps below:

- Run the IP scan utility
- · Click "Refresh". All available devices will be listed in the device list
- · Select the device item from the device list
- To edit or modify addresses, subnet mask, gateway, or HTTP port, use the box
- Click "Apply" to configure the settings
- Click "Refresh" to verify the settings

\$	PScan 1.0.0.33									
B	Bép									
1	List .									
Ш	Name	19	Subnet Mask	Gateway	Port	Assignment	Mac Address	Model	Name	
	H 204 20 FID R IP Caters H 204 20 FID R IP Caters H 204 20 FID P Caters H 204 20 FID P Caters H 204 20 FID Caters	192168.0.200 192188.0.201 192188.0.202 192168.0.203 192168.0.203 192168.0.204 192168.0.204 192168.0.205 192168.0.205	265 265 265 0 265 265 265 0 265 265 265 0 266 265 265 0 266 265 265 0 265 265 265 0 265 265 265 0 265 265 265 0 265 265 265 0	192168.0.1 192168.0.1 192168.0.1 192168.0.1 192168.0.1 192168.0.1 192168.0.1 192168.0.1 192168.0.1	80 80 80 80 80 80 80 80 80 80	Static Static Static Static Static Static Static Static Static	000FFC25E001 000FFC250001 000FFC250001 000FFC250001 000FFC250001 000FFC25001 000FFC25001	100 101 102 103 104 105 106 107	IP Subnet Gatewa HTTP Pc C Stat PPPvE A	Mask / / / / / / / / / / / / / / / / / / /
	Status: OK									Close

Chapter 2-2 Configuring IP addresses using HTML page

To change an IP address using a HTML page, type the default IP address (192.168.0.200) into the Internet browser and follow the steps below:

- Login to the H.264 Full HD AiP camera using default username "admin" and default password "pass"
- Click the "Basic Mode" configuration hyperlink
- Click the "Network->General" hyperlink
- To edit or modify addresses, subnet mask, gateway, or HTTP port, use the edit box
- Click "Submit"

Chapter 2-3 Internet browser settings & software components required

Make sure your Internet browser allows signed ActiveX plug-in to run on your PC. Set "Download Signed ActiveX plug-in controls" to "Prompt" and "Run ActiveX control and plug-in" to "Enable". You can set this by Internet Explorer->Tools->Options->Security Settings.



Once complete, you can access the AiP camera's live video by inserting the default IP address into your Internet explorer browser. A security warning dialog box will appear. Click "OK" to download the ActiveX directly from the AiP camera.

Chapter 2-4 Login

There are several levels of user authentication including administrator and guest.

Connect to 192.16	8.0.200 🛛 🛛 😨 🔀
R	GR
The server 192.168. requires a username Warning: This serve password be sent in a without a secure con	0.200 at Camera Name : IP Camera and password. r is requesting that your username and m insecure manner (basic authentication nection).
Usemame (U); Password (P);	🖸 adminį 💌

The usernames and passwords areas follows:

Administrator		Viewer
Username	admin	guest
Password pass		guest

To login to the AiP camera, type the username and password into the HTML login page and click "Submit".

Chapter 3 H.264 Full HD AiP camera network features

When logged in as an administrator there are two main features; 1) system operation and 2) configuration.

Chapter 3-1 AiP camera Operational HTML

Page layout



- 1. Profile switching menu-Switching from one profile to another
- ACUMEN Universal ActiveX control—Display RTSP H.264 or JPEG network video
- 3. Quick button control panel—AiP camera control panel
- 4. Setup menu-AiP camera setup menu

Universal ActiveX control provides an ePTZ (electronic Pan, Tilt, and Zoom) feature option. To perform a ePTZ tour, use a computer mouse to drag the ActiveX control. The ACUMEN Universal ActiveX control is now in eZoom mode.



Use a computer mouse pointing to the sub-window of PIP view. Dragging the sub-window will allow ePan and eTilt actions to be performed. The mouse scroll button will allow the user to zoom in and out.





Chapter 3-2 AiP camera Main Controls

Ō	Snapshot: Take a snapshot of the video
Ũ	Recording at PC
A	Speaker on: Set audio on (for audio model only)
Ð	Microphone on: Speak to remote site (for audio model only)
Δ	Activate alarm output (for alarm model only)

The quick control panel buttons are described below:

Chapter 3-2-1 Two-way Audio



For models with two-way audio, click the microphone icon to speak to the remote site. To stop speaking to the remote site, click the microphone icon again.

1

Click the speaker icon to listen to the remote site. To stop listening to the remote site, click the speaker icon again.

Note: Only AiP camera models with audio support this feature.

Chapter 3-2-2 Record in a Local PC

To record at a local PC, right-click on the ACUMEN Universal ActiveX control. You can specify recording paths and recording sizes.



To playback the AVI video, click on Windows Media Player.

Chapter 4 Basic Settings

		Live Basic Mode Advar	nce Mode Language Logout
System	Video / Audio	Network	Maintenance

Chapter 4-1 Configuration

As an administrator, you can configure the AiP camera via a standard HTML web page.

Chapter 4-2 System Settings

System settings contain the AiP camera server system information including MAC address, firmware version, user and system timer. To change or use these options, follow the below instructions.

Basic >> System >> General				
MAC Address	00:0f:fc:26:22:42			
Firmware Version	1.1.001e			
OS Version	Linux 2.6.38			
System Reboot Time	2012/11/02 18:35:08			
Device Name	H.264 2MP HD IP Camera			
OSD Font	Enable Oisable			
OSD Timer	Enable Oisable			
ActiveX OSD Display	Enable I Disable			
ActiveX OSD Name	H.264 2MP HD IP Camera			
Low Latency Mode	Enable Oisable			
	Submit			

Firmware Version

A firmware update allows users to upgrade the AiP camera's firmware remotely.

Device Name

The device name can be found using the IP scan utility. This will identify the AiP cameras. To change the device name, enter the new name of the AiP camera and click "Submit".

OSD Font Camera OSD name

OSD Timer Camera OSD time

ActiveX OSD Name

Camera OSD name only on ActiveX

Chapter 4-3 Timer

The H.264 Full HD AiP camera allows users to change the system timer via a standard HTML web page. To change the camera's system timer, enter the date and time into the edit boxes. Click "Submit" to apply.

Basic >> System >> Timer				
Server Time Tue, 23 Oct 2012 20:24:39 +0800				
Time Server time.stdtime.gov.tw Y				
Time Zone	(GMT +08:00) Taipei			
Time	2012 ~ / 10 ~ / 23 ~ 20 ~ 24 ~ 39 ~ Synchronize with PC			
	Submit			

Synchronize with NTP

To synchronize the Internet time system, change the Auto Synchronize option to "Every Hour". The H.264 Full HD AiP camera will synchronize its system timer with a time server every hour.

Note: Network Time Protocol feature requires Internet connection.

Chapter 4-4 Video / audio settings

To transmit H.264 Full HD video over a low bandwidth network such as the Internet, set the bitrate close to the networks upload bandwidth. H.264 Full HD AiP cameras can encode frames based on the bitrate setting.

Basic >> Video / Audio >> General				
Profile : Profile 1 💌				
TV Out : ONTSC, OPAL On				
H 264 :1020 × 1080				
Drefie Name - H2641020D				
Output Frame Pate : 15 M				
COD (Creue of Disturge) 115				
VPD/CPD Made . CPD ++				
Pit Data : 2 Mino M				
Alarm Weighted Mede : C Enghle Disable				
Alariti Weighted Wode . O Enable O Disable				
JPEG :720 x 480				
Profile Name : JPEG480P				
Output Frame Rate : 5 💌				
Image Quality : 60 💌				
Alarm Weighted Mode : O Enable 💿 Disable				
H.264 :720 x 480				
Profile Name : H264480P				
Output Frame Rate : 15 V				
GOP (Group of Pictures) : 15 💌				
VBR/CBR Mode : CBR V				
Bit Rate : 1 Mbps 💌				
Alarm Weighted Mode : 🔘 Enable 💿 Disable				
Submit Load Default				

- Profiles: select streaming combination
- Profile Name: description of the profile
- Compression: compression type of the profile
- Resolution: the resolution of the compression
- VBR/CBR: VBR: video quality encoding mode/constant bitrate encoding mode.
- Bitrate: the maximum bit rate available for a network connection
- Output frame rate: the frame rate of the profile
- GOP: 1 frame period per second
- TV Output: NTSC/PAL video system
- Power line frequency: 60Hz/50Hz lighting power frequency

Chapter 4-4-1 Weighted Mode

Weighted mode is activated when an alarm is triggered. When triggered the stream rate increases to the maximum speed, i.e. 30 FPS. If there is no alarm activity, the streaming remains low at 1 FPS saving bandwidth and storage.



Chapter 4-5 Basic Quality

To determine the video quality, adjust the brightness, contrast, hue, saturation, and sharpness accordingly. The AiP camera can be set to day and/or night for optimum video quality.

Day or Night Video Mode

The day or night video quality can be adjusted separately; the quality setting is scheduled based on the IR cut scheduling table.

Basic >> Video / Audio >> Quality Basic			
Day Mode	Night Mode		
Brightness : 46 (Low / High)		
Contrast : 55 (Lo	ow / High)		
Hue : 50 (Low /	High)		
Saturation : 60 (Low / High)		
Sharpness : 25 (Low / High)		
		oad Default	

Chapter 4-6 Network Settings

Network settings are the basic settings that connect H.264 Full HD AiP cameras to the network. The default IP address is 192.168.0.200. A user can use this IP address to verify the network connection between a local PC and H.264 Full HD AiP camera using the Internet browser.

For a local area network configuration, enter the IP address, subnet mask, and gateway IP. Click "Submit" to update the settings.

Basic >> Network >> General		
Network	Static ○ DHCP ○ PPPoE	
IP Address	192.168.0.200	
Subnet Mask	255.255.255.0	
Gateway	192.168.0.1	
Default DNS	168.95.1.1	
Second DNS	168.95.1.1	
Account	account@pppoe.com	
Password	•••••	
Submit		

For Internet access configuration, contact your local Internet Service Provider (ISP) for a global IP address. Once the Internet connection is installed, enter the IP address (global), subnet mask, and gateway IP from the ISP.

- Default DNS IP Address—First Domain Name Server, the IP address of the domain name server
- Second DNS IP Address—Second Domain Name Server, the IP address of the domain name server, a backup DNS server for default DNS
- PPPoE Account—Account name of PPPoE service
- PPPoE Password—Password of PPPoE service

Chapter 4-6-1 DHCP Setting

A router, gateway, or other DHCP software server can remotely assign an IP address to the H.264 Full HD AiP camera. There is no need to configure the IP address, subnet mask, and gateway. Since the DHCP may assign a different IP address to the AiP camera after power off, a user can use the IP scan utility to launch the Internet browser and search for the AiP camera. To enable DHCP, click the DHCP option and click "Submit".

Note: Once the DHCP option is enabled, the AiP camera is assigned an IP address by the DHCP server. This feature is only permitted in LAN environments.

Chapter 4-7 HTTP & RTSP Service

HTTP protocol is a reliable protocol that sends video streams. Port forwarding technology can be used to send video over the Internet. Details are described in the appendix. To change the HTTP service's port number, consult your network administrator. Change the port number at the port field and click "Submit".

Basic >> Network >> HTTP/RTSP Service		
HTTP Port	80	
RTSP Port	554	
RTCP Check	On ○ Off	
Video Port	HTTP Port O RTSP/UDP Port	
	Submit	

Chapter 4-8 DDNS Settings

DNS stands for Domain Name Server. It provides a domain name translation service for a device's IP. The domain name can be easier to remember than numeric values (IP). The DNS service requires service registration and subscription. DynDNS (DDNS) provides a domain name service without subscription.

Basic >> Network	k>> DDNS	
DynDNS	http://www.ddnsipcam.com	
DDNS	Enable Disable	
Account	27fff0	
Password	••••	
New Password	••••	
Host name	HD IPCAM	
	http://27fff0.ddnsipcam.com	
	Submit	

Note: The DDNS feature requires an Internet connection.

To use DDNS, go to<u>www.ddnsipcam.com</u>. If the AiP camera is on Internet with a global IP address, use the last 6 digits of the MAC address as the host name with default account and the default password, (pass). The AiP camera will automatically register to <u>www.ddnsipcam.com</u> without further registering. For example, if the AiP camera is on the Internet, type "27fff0.ddnsipcam.com" into a browser with login name "27fff0" and password "pass" to log in.

Chapter 4-9 UPnP Settings

The UPnP service is a network protocol that allows Windows PC users to explore AiP cameras within a LAN. In Windows, click on the Network of File Explorer to see the AiP cameras via the UPnP protocol.

CARD · ARALANC	PACKS PARANT				E • 0 0
THE AX	ACMENTAL AND	J ADARNAME COMPAGE	ALINEN A serie-CORCHELES	1	
- 10 424 - 10 24 - 2 24	NRASHY ACLINEN				
	ACC IN	APC-6202	APC ONE	Marte Carre	
KS WerStat(C) werStat(C) werStat(C) werStat(C) werStat(C) werStat(C) werStat(C)	Server	COMPLINE	Arcani	10 ADDY	
9.43					

To enable the UPnP service, visit Basic->Network->UPnP.

Basic >> Net	work >> UPnP	
UPnP Service Friendly Name	In Enable ○ Disable UPnP IPCam Device	
	Submit	

Chapter 4-10 Maintenance

The load default feature allows you to restore the factory settings. There are certain settings such as IP addresses and video systems that are not affected by this operation. To reboot the H.264 Full HD AiP camera, click the Reboot System hyperlink.

To update the firmware for the AiP camera, click the Firmware Update hyper link. Locate "flasham32.bin" in your computer by clicking "Browse". Click "Submit" to finish the firmware upgrade.

Basic >> Maintenance >> Fir	rmware Update
Please do not turn off power and w automatically. Fail to update firms that it may damage this machine a repair.	vait until this web page shows up ware correctly due to network communication issue and is required to ship back to your vender for
File System(flasham32.bin/flashar	nk32.bin/flashaml32.bin)
flasham32.bin:Application Firmwar	re
flashamk32.bin:Linux OS	
瀏覽	Submit
L	Jpload 0%
Load Default	Load Default
Reboot System	Reboot System

Note: If you forget the password, please return the device to us. See appendix for emergency default.

Chapter 5 Advance Settings



Chapter 5-1 System Settings

Chapter 5-1-1 User Setting

There are ten user accounts allowed for the system. Each account can be configured for access rights. To add/edit a user, click "Add/Edit" user. To access an AiP camera without authentication, set the Bypass "Logon" radio to ON.

Advance >> System >> U:	ser
Bypass Logon ○ On ④ Of	1
User admin 🛩	
Add User Edit User	Remove User
Account	
New Password	
Confirm Password	
User Group	
Administrator	✓
Panel Control	
Streaming 1	2
(H2641080P)	
(H2641080P) Streaming 2 (JPEG480P)	

To change the account name, type the new account name in the "Account" box. To change the password, type the new password in the "New Password" box. Click "Submit" to update the user settings. To delete a user, click "Remove User".

Administrator: Enable or disable setup mode for a user Panel Control: Enable or disable control panel for a user Streaming: Enable or disable a streaming for a user

Chapter 5-1-2 System Log

The AiP camera documents can be accessed as operational logs. The operational log can be found at Advance->System-System Log link. Click "Save" to save the log as a text file. To erase the log, click "Clean All".

Log	Page 1 💌			
1.	192.168.0.1	2012/10/23 20:17:44	USER LOGOUT	
2.	192.168.0.1	2012/10/23 20:17:41	USER LOGIN	
3.	192.168.0.1	2012/10/23 20:05:01	USER LOGOUT	
4.	192.168.0.1	2012/10/23 19:50:15	USER LOGIN	
5.	192.168.0.1	2012/10/23 19:50:11	USER LOGOUT	
6.	192.168.0.1	2012/10/23 19:50:09	USER LOGIN	

Chapter 5-2 Advance Video and Audio Settings

Chapter 5-2-1 Advance Video Setting

To setup Exposure Control, Automatic Gain Control, White Balance Control, adjust the values accordingly.

Advance >> V	ideo / Audio >	> Quality Advan	ce
Day Mode	Night Mode		
White Balance C	ontrol	Auto	~
Mirror		Off 💌	
Flip		Off 💌	
Exposure Value		5 🛩	
WDR		Off 💌	
Back-light Compe	ensation	On 🚩	
Shutter Limit(sec):	Min 1/8000 💌	Max 1/50 💌
Auto Gain Contro	(MoonLight)	64x(36dB) 💙	
3D Noise Reduct	ion	2 💌	
Sense Up		Off 💌	
	Load	i Default	

To increase, the sensitivity at night, adjust the Moon Light feature.

- Exposure Value: adjust the value of the image exposure
- WDR: enable or disable the Wide Dynamic Range feature
- Black-light Compensation: increase the exposure to the darker object
- Shutter limited: min and max shutter range
- White Balance Control: automatically adjusts depending on the ambient light conditions including tungsten, indoor, fluorescents, or outdoor environments
- Mirror: video mirroring
- Flip: video flipping

Moon Light function

- Auto Gain Control, AGC (Moon Light function): increase the gain of the video signal. If AGC cannot gain enough light, set the Moon Light feature. However, the Moon Light feature may cause motion blur at night
- 3D Noise Reduction: reduces noise at night
- Moon Light: slow shutter feature for increasing CMOS sensitivity at night

No Moon Light

3 Frame Moon Light



Chapter 5-2-2 Moon Light function

The Moon Light function feature is for low-light and high sensitivity DSP control that enables outstanding video quality in low-light environments. Moon Light function technology can be used for both black-and-white and/or color video modes. To enable Moon Light function, first enable the Auto Gain Control (AGC) setting. The combinational use of 3D noise reduction (3D DNR) can reduce noise in low light environments. AGC and 3D DNR do not cause motion blur. If the sensitivity is not good for the environment, the Moon Light feature can instead be used, however, this may cause motion blur in low light conditions.



Chapter 5-2-3 IR Cut Removable

The IR cut removable filter allows the user to schedule IR activation by (1) auto, (2) day, (3) night, or (4) schedule. When the setting is set to "Auto", the IR activation is determined by the light sensor. The "Night" setting means that the IR cut filter is removed. "Day" setting means that the IR cut filter is always on. When the activation schedule is enabled, the IR cut filter can be scheduled based on specific time frames. For example, a user can set the IR cut activation time starting from 19:00 pm (day to night time) until 6:00 am (night to day time).

Advance >> Video / Audio >> IR Cut Removable
Auto , Switch Delay Time 2 ¥
Day Mode
Night Mode
Schedule
Day to Night Time 19 💌 : 0 💌
Night to Day Time 6 💌 : 0 💌
Submit

Chapter 5-2-4 Video Privacy Mask

Each AiP camera has four privacy masks. Select the mask number and drag the mask onto the video area.



Chapter5-2-5 Audio Setting

Audio setting is based on the following:

- MIC Volume: MIC or line input volume
- Audio Input Mode: choose MIC input or Line input.
- Audio Input Gain: voice input gain control
- Audio Output Volume: line output volume adjustment
- Audio Coding Type: G.711 u-Law
- Sample Rate: audio sample rate
- Bit Rate: audio bitrate.

Advance >> Video /	Audio >> Audio Adjust
MIC Volume	50 💌
Audio Input Gain	0 dB 🖌
Audio Output Volume	50 💌
Audio Coding Type	G711 u-law
Sampling Rate	8000 Hz 💌
Bit Rate	16 kbit/s
	Submit

Chapter 5-3 IP Network Advance

To block unauthorized IP addresses, click Advance->Network->IP Address Filtering. Enter the IP address and click "Add". To delete the filtered IP address, click "Delete".

Advance >> Network >> IP Address Filtering		
IP Address Filtering	Enable O Disable	
IP Address		Add Delete
192.168.0.100		
(

Chapter 5-4 Event

For motion, audio, and network detection configuration, visit

Advance->System->Event for summary report. To edit an event, click "Edit Event".

Advance >> System >> Event						
Event Name	Motion Detec	tion	▼ Ec	lit Event		
Event	Status	FTP	SMTP	SD Card	Alarm Output	Schedule
Motion Detection	Disable	۷			v	Auto
Audio Detection	Disable			٧	v	Auto
Alarm Detection	Disable		v		v	Auto
Network Detection	n Disable					Auto

Chapter 5-4-1 Motion Alarm, or Audio Detection Event

For motion, digital input, or audio alarm notifications, users can configure event actions to send JPEGs to an FTP server, to send JPEGs to an email account, and/or trigger SD card recording for video. To schedule the event task, click "Schedule". A weekly schedule box will appear. Edit as appropriate.

Enable V Action	FTP Service SMTP Service	Dwell Tim Dwell Tim	e 1 ¥	
Action	FTP Service SMTP Service	Dwell Tim Dwell Tim	e 1 💌	
	SMTP Service	Dwell Tim		
	CD Card Canica		8 5 📉	
	SD Cald Service	Dwell Tim	e 60 🛩	
	Alarm Output	Dwell Tim	e 5 💌	
Schedule O	Always			
۲	Schedule			
0:00 6:00)	12:00	18:00	
Sun				
Mon See See See See See See See See See Se				
Tue				
Wed				
Thu				
Fir and a second				
Sat				
Event Schedule				

Chapter 5-4-2 Motion Area

Once the above information is set, configure the motion area of the monitored environment. To configure a motion area, click on the video area.



Chapter 5-4-3 Audio Detection Event

For audio supported models, the AIP camera will have an audio detector that will detect the acoustic level. If the volume exceeds the audio sensitivity value, the audio detector will trigger an alarm and send a notification.



Chapter 5-4-4 Alarm Input Detection Event

To enable external alarm digital input via an AiP camera, visit Advance->Event->Alarm Detection. Select NO/NC for the digital input.

- Alarm Notification—Enable alarm notification
- Alarm Input Mode-Normal open/normal close for detecting alarm inputs

Alarm Notification	Enable Oisable
Alarm Input Mode	● NO ○ NC

Chapter 5-4-5 Network Loss Detection Event

Advance >> Event >>	 Network Detection
No Network Activity	Enable I Disable
	Submit

Chapter 5-5 Notification

The alarm or motion notification feature can be triggered to send snapshots to an FTP account or an email account. For alarm notification configuration, follow the instructions below:

Chapter 5-5-1 FTP Notification

To enable the alarm or motion sending FTP feature, setup the following FTP account information.

FTP Server IP/DNS	ftp.server.com
Account	Account
Password	•••••
Directory	/alarm_jpeg/
Prefix	
Date Format	YYMMDD_hhmmss 💌
Posfix	

- FTP server IP/DNS— IP address or domain name of the FTP server
- Account— account of the FTP server

- · Password— password of the account
- Directory-file path for storing the JPEG snapshots
- Prefix—prefix of the JPEG filename
- Date format—date format string for the JPEG filename
- Postfix—postfix of the JPEG filename

Chapter 5-5-2 SMTP Email Notification

Alarm or motion notifications can be set to send a snapshot to an email account. To enable alarm or motion sending email snapshots, setup an email account.

Advance >> Event >>	SMTP Service
E-mail Sender Setting	
E-mail Address1	receiver@mail.com
E-mail Address2	
E-mail Address3	
-mail Address4	
E-mail Address5	
E-mail Address SMTP Server	sender@mail.com mail.com
SMTP Authentication	AUTH LOGIN ○ AUTH SSL
SMTP Port	25
Authentication	Enable Oisable
Authentication Auth Account	C Enable O Disable sender

- Email receiver settings
 Email address email address of the recipient
- Email sender setting
 Email address— email address of the sender
- SMTP server— sender's SMTP server Authorization— SMTP server's authorization option if applicable Authorization account— account of the SMTP server Authorization password— password of the account

Chapter 5-5-3 Event Triggering SD Card Recording

To record video onto an SD Card, insert an SD card into the SD card slot. Enable the SD card recording feature. The AiP camera will start to record video to the SD card.

Chapter5-5-4 SD Card Recording Setting

For SD card recording settings, see the below:

Advance >> System >	>> SD Card Service	
SD Recording	On 💿 Off	
Recording Format	H2641080P 💌	
SD Card Status	NORMAL	
SD Card State	SD Card No Plug In	
SD Card Total Bytes	0 MBytes	
SD Card Free Bytes	0 MBytes	
Submit	Unmount SD Card	

- SD Recording: enable SD card recording
- Recording Format: recording resolution
- SD System Status: SD Linux mounting status
- SD Card State: SD card inserting status
- SD Card Total Space: SD card total capacity
- SD Card Free Space: SD card free space

To un-mount the SD card, click "un-mount SD Card". The system may crash if the SD card is a not un-mounted properly.

To download the SD card AVI recoding clips, click Advance->System->SD Card Backup File. Right mouse click the required files and save the AVI them to a local PC.



Appendix

Advance Network DDNS and PPPoE Technologies

The advantage of using DDNS and PPPoE is to remove the costs associated with paying for a static IP address. H.264 AVC AiP camera's PPPoE service will provide a dynamic global IP address after the system reboot has been carried out. This is the address needed to access the video server over Internet. The IP address may get changed periodically. When ISP re-assigns a new IP address to the H.264 AVC AiP camera, the AiP camera notifies the DDNS service. A remote PC can access the H.264 AVC AiP camera by typing the domain name in a browser. The domain name gets resolved by the DDNS service and gets translated to its dynamic global IP address. The dynamic global IP address can now be accessed by the remote PC.



SD Card Compatibility List

Manufacturer	Size	SDHC/SDSC
Sandisk	8 / 16 / 32 GB	SDHC
Transcend	8 / 16 / 32 GB	SDHC

Specification

Video compression	H.264 and Motion JPEG, dual codec
Resolution	1080P(1920 x 1080), 720P(1280 x 720), D1(720 x 480), CIF(352 x 240)
	H.264 : up to 15 fps @ 1920 x 1080 , 30fps @ 1280 x 720 , 30fps @ 720 x 480
nate	Motion JPEG : up to 15 fps @ 1920 x 1080 , 30 fps @ 720 x 480 , 30 fps @ 352 x 240
Streaming	Triple Streaming
Video streaming	RTSP: RTP/HTTP, RTP/TCP, RTP/UDP, Multicast
Video bitrate	5Mbps to 128Kbps Change frame rate and bitrate on-the-fly CBR/VBR/GOP supported
	Base64 HTTP encryption
Security	Multiple user access levels with password protection
	10 user accounts available
Users	8 simultaneous users
OSD	Text overlay for camera name, date and time
Privacy mask	Four masks
Alarm/motion	Audio detection Motion detection External digital input alarm (applicable for only digital input models) Image upload over FTP and email by above alarm signals
CPU, memory	Embedded SoCARM11 CPU at 528Mhz, 256 MB DDR, 256 MB flash memory
IR cut removable	Auto, day , night, scheduling, day & night models only
Alarm input	TTL input +3VDC to +5VDC, alarm input models only
Alarm output	DC 24V 1A, dry-contact (N.O.), alarm output models only
Maintenance	Firmware update via HTTP, Firmware available at web site
Network interface	10Mbps/100Mbps, RJ-45
Two-way audio	G.711 16Kbits u-Law, audio model only
PC requirement	OS: Windows 2000, Windows XP, Windows Vista, Windows 7 Browser: Windows Internet Explorer 6.0 or above CPU: Intel Pentium 4 1.8GHz or above RAM: 1GB or above
Network	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS,
protocols	RTSP, RTCP, Telnet, ONVIF, ICMP, IGMP
Mobile phone & PDA	Support iPhone, iPad, and Android
System integration	ONVIF 2.0 and HTTPAPI
AIM	AIM HD 2.6 support
OS	Embedded Linux 2.6.32