

AirForce

H.264 HD AiP



AiP

Full HD IP

AirForce

H.264 JPEG

AiP

Full HD IP

AirForce

2, 3 5

DSP-

IP-

(WDR),
(BLC), ePTZ,
, a

3D,
(ROI),
,

" "

SD,

JPEG

FTP.

AiP

Full HD IP

AirForce

H.264,

DSP,

AIM Software

ONVIF,

HD

2.6 (

: 2-

PoE.

) IP-

Full HD

IP.

- AiP , Full HD 30
 - H.264 JPEG 4
 - « »
 - " " (IVA)
 - IVA- , FTP
 - 3 D DNR, WDR, BLC, ePTZ, ROI,
 - , iPad iPhone
 - DNS (DDNS)
 - Network time (NTP)
 - PCM/G.711
 - ONVIF
 - AIM Software HD 2.6 ()

Microsoft, Windows 2000, Windows XP, Windows Vista, Windows 7, ActiveX
Internet Explorer

Microsoft /

Java

Java

Sun

Microsystems, Inc.

Flash, Macromedia Macromedia Flash Player

Adobe

Systems Incorporated /

Linux DynDNS

Intel, Pentium Intel® Core™ 2 Duo
Intel Corporation.

FFmpeg Fabrice Bellard, FFmpeg
project.

QuickTime QuickTime

Apple Computer, Inc.,

eMobile

AI ActiveX

AI HTTP API

non-ONVIF,
HTTP API

AI HTTP API.
Full HD IP.

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-
-
-
-
-
-
-
-

10 c



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-	43
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1

1-1

AiP

Full HD H.264

1-2

JPEG

H.264 FULL HD

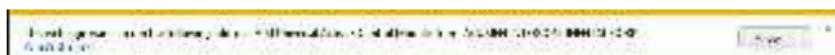
ActiveX.

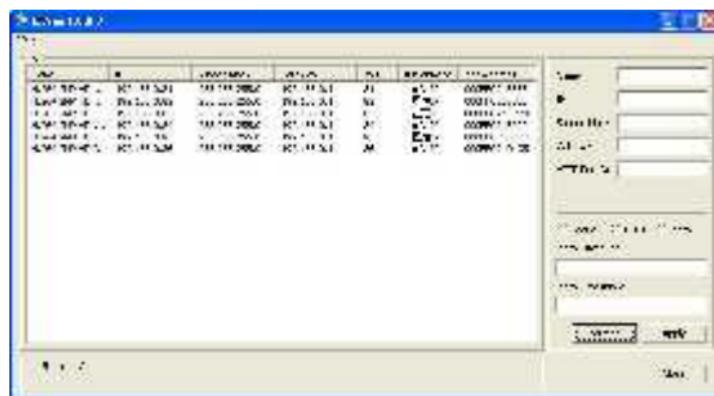
AiP

Internet Explorer.

A

ActiveX.





IPScan 1.0.0.31

2-2 | P HTML

IP- (, 192.168.0.200) ,
IP- H.264 FULL HD. AiP
" " -> " .
IP- , , , , HTTP
« ».

2-3

ActiveX

Internet Explorer-> -> ->

ActiveX

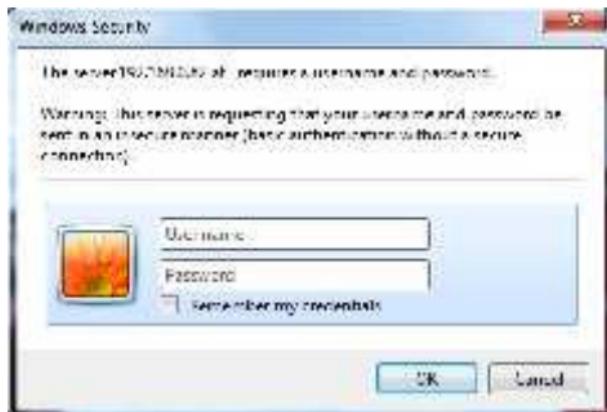


AiP AiP (Internet Explorer) OK, IP- H.264 FULL HD
 ActiveX

AiP

2-4

AiP



	admin	
	pass	

AiP

3

AiP

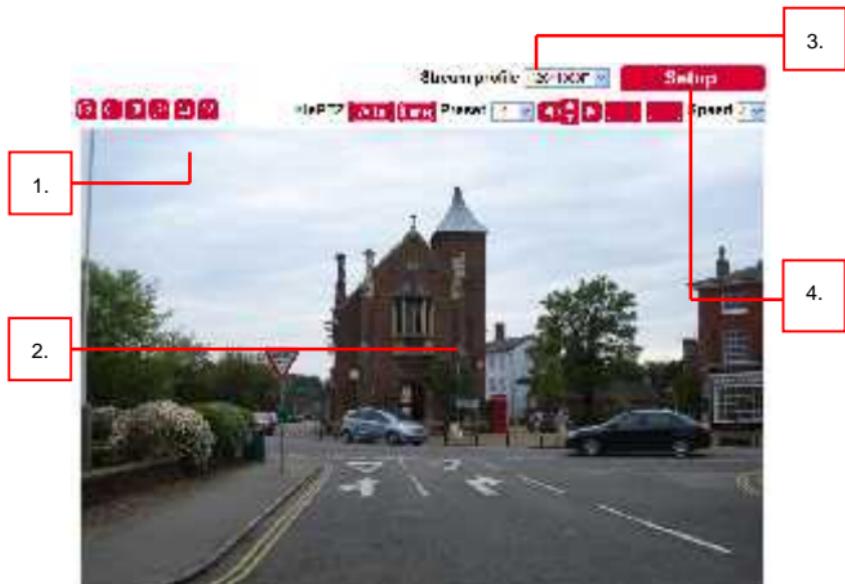
AiP

;

3-1 HTML

AiP

HTML



1. AiP

2. ActiveX-

RTSP H.264
JPEG.

3.

4. - AiP

3-2 AiP

AiP

, ePTZ «ROI» (

).

3-2-1 ePTZ

AiP
ePTZ,
ePTZ.
,


Stream profile: IP11111111 | **Setup**
ePTZ Auto Preset | Speed |
Ai ActiveX control
ePTZ ().
ActiveX ePTZ (), ActiveX control



Ai Universal ActiveX



PIP.

ePan eTilt.

ePTZ.

3-2-2 «

» (ROI)

D1

ROI.

1080P.

: 1920 * 1080



: 720 * 480



3-2-3

1	:	.
2	:	().
3	:	().
4		
5		().
6	ePTZ	ROI
7		ePTZ
8		ROI

Presets /	ePTZ	ROI
	,	,
	ePTZ	ROI.
Speed /	PTZ	

3-2-4



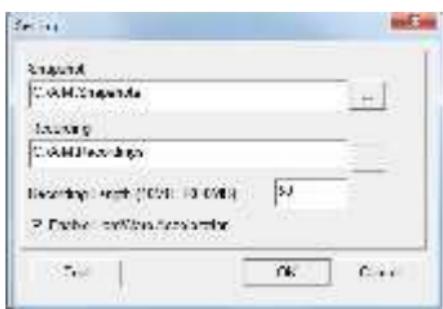
3-2-5

ActiveX.

ePTZ ROI



AVI-
Player.



Windows Media

3-3

AIP-

HTML.

3-3-1

AIP-

H.264 FULL HD

MAC,



H.264 FULL HD

AI -

Submit ().

AIP- H.264 FULL HD.

IP- H.264 FULL HD

IPScan

ActiveX

ActiveX

3-3-2

User (/ , , ,).
IP- H.264 FULL HD
Logon ON ().

Add/Edit
Bypass



Account ().
New Password ().
Submit (),
"Remove User" ().

<input checked="" type="checkbox"/> Account	Admin
<input checked="" type="checkbox"/> New Password	*****
<input checked="" type="checkbox"/> Confirm Password	*****
<input type="checkbox"/> Administrator	<input checked="" type="checkbox"/>
<input type="checkbox"/> File Control	<input checked="" type="checkbox"/>
<input type="checkbox"/> Help Control	<input checked="" type="checkbox"/>
<input type="checkbox"/> Security 1 (028440384)	<input checked="" type="checkbox"/>
<input type="checkbox"/> Security 2 (07048819)	<input checked="" type="checkbox"/>
<input type="checkbox"/> Security 3 (028440381)	<input checked="" type="checkbox"/>
<input type="checkbox"/> Security 4 (0279357)	<input checked="" type="checkbox"/>

Submit

Administrator (

Panel Control (

ePTZ: ePTZ

Streaming ():

3-3-3

AIP- H.264 FULL HD, HTML.
AIP- H.264 FULL HD, ,
Submit (),

Screenshot of the 'Time' configuration page in the WinBox interface. The 'Syncronizes with NTP' section is selected, showing 'every hour' as the interval. The 'Time Server' field contains 'time.ntvms.psu.edu'. The 'Interval' dropdown shows '1024' (28 sec). The 'Time' and 'Date' fields are set to '2011-01-01 12:00:00'.

NTP

Auto Synchronize () "Every Hour" ().
AIP- H.264 FULL HD



3-3-4

Load Default ()
AiP / IP-
AIP- H.264 FULL HD, Reboot
System ().



"flasham.bin"
Browse ().
Submit (),

AIP- H.264 FULL HD



3-4

H.264 FULL HD AIP
IP, DHCP DDNS.

3-4-1

AIP- H.264 FULL HD . IP- AIP-
H.264 FULL HD 192.168.0.200.
IP-
AIP- H.264 FULL HD, IP-
IP. Submit ()



IP-
Default DNS IP Address (IP- , IP-
 DNS)
Second DNS IP Address (, IP-
 IP- , DNS)
 DNS
PPPoE Account (
 PPPoE
PPPoE Password (PPPoE)
 PPPoE

3-4-2 DHCP

IP- AIP- DHCP-
 DHCP IP- AIP- H.264 FULL HD.
 DHCP IP- AIP- H.264 FULL HD
 IPScan - AIP-
 DHCP, DHCP, AIP-
 Submit ().
 DHCP, AIP-

: DHCP , IP- AIP-
 DHCP.

3-4-3 HTTP & RTSP

HTTP-

HTTP

"Submit" () .



3-4-4

SMTP



- E-mail.
 - -mail.
 - Email
 - JPEG-
 - SMTP
 - SMTP
 - SMTP
 - SMTP
 - SMTP
 - "Send" (),
 - SMTP,
 - SMTP.

3-4-5 FTP

FTP

FTP



- FTP server IP/DNS (FTP-IP/DNS) IP-
- Account () FTP-
- Password ()
- Directory () JPEG-
- Prefix () JPEG-
- Date format () JPEG- JPEG-
- Postfix () JPEG-
- Auto FTP sent (JPEG) FTP)
- FTP sent time (FTP) FTP

3-4-6

DDNS

DNS

IP-
(IP). DNS-

DynDNS (DDNS)



DDNS

MAC- , pass, AIP-
 IP- , AIP-
 www.ddnsipcam.com
 "24094f.ddnsipcam.com" "24094f" "pass"
 AIP- , AIP-
3-5

H.264 FULL HD:

3-5-1

H.264 FULL HD

H.264 FULL HD



- Profiles ():
- Profile Name ():
- Compression ():
- Resolution ():
- VBR/CBR: VBR: /
- Bit Rate (): ,
- Output Frame Rate ():
- GOP: |
- Video Output (): NTSC/PAL
- Power line frequency (): 60 /50

3-5-2

, 30 FPS.



3-5-3

(), contrast (), brightness ()
 sharpness (), hue (), saturation ()
 IP-

Sensor A	Sensor B
<input type="checkbox"/> Multisensor Mode	
<input type="checkbox"/> Color Sensor Control	
<input type="checkbox"/> Quality Mode	Normal
<input type="checkbox"/> Bed Size	Large
<input type="checkbox"/> Standard	Large
<input type="checkbox"/> TGA	Large
<input type="checkbox"/> Sensors	Large
<input type="checkbox"/> Shutter	Large
<input type="button" value="Load Default"/>	

<input type="checkbox"/> Multisensor Mode	Right
<input type="checkbox"/> Color Sensor Control	
<input type="checkbox"/> Quality Mode	Normal
<input type="checkbox"/> Exposure Settings	
Exposure Value	5
EV	0.5
WDR	On
Black Level Compensation	On
Shutter Frequency Min	1/2000
Shutter Frequency Max	1/200
<input type="checkbox"/> Low-Light Gain (Enhance/Sense Up/Flat)	
Gain Control Control	Auto (Normal)
DD White Balance	5
Gamma	0.8
<input type="button" value="Load Default"/>	

Sense Up.

- Exposure Value ():

- WDR:
- Black-light Compensation ():
- Shutter limited ():
- White Balance Control ():

- Mirror ():
- Flip ():

Sense-Up Plus ()
 ● , AGC (Sense-Up Plus):
 AGC

Sense-Up. , Sense-Up

- 3D:
- Sense-Up:
 CMOS

No Sense-Up 3 Frame Sense-Up



3-5-4

(MoonLight)
 (MoonLight)

(MoonLight)

(AGC).
(3D DNR)

AGC 3D DNR

(MoonLight).

3-5-5

IP-



3-5-6

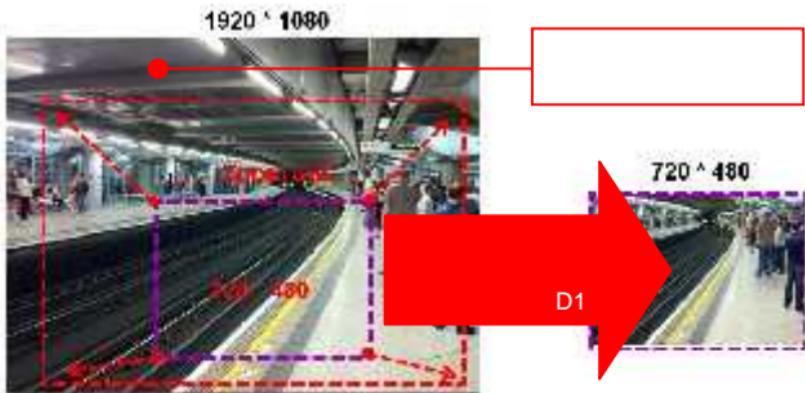
(ROI)

(ROI)

CIF)

(1080P)

(D1



ROI), Zoom Out In ("Enable ROI"



3-6

"A o", (1), (2), (3) (4)

— 11 —

3

19:00 (day to night time -

) 6:00 (night to day time -).



3-7

SD

SD- , , SD-

SD. IP-

SD.

SD.

3-7-1

SD

SD



- **SD Recording ():** SD.
- **Alarm/Motion/Triggering(/ /):**
- **Recording Time ():** SD-
- **Continuous ():**
- **No Network Activity ():** SD-
- **Recording Format ():**
- **SD System Status ():** SD
- **SD Card State ():** SD
- **SD Card Capacity ():** SD
- **SD Card Free Space ():** SD-
- () SD- , , "un-mount SD Card"

3-8-1		
<small>3-8-1-1) AIP- / H.264 FULL HD</small>		
301-V322	18:30:31	301-E327-K04E024
301-V322	18:30:30	301-E327-K05E024
301-V322	18:29:30	301-E327-K06E024
301-V322	18:28:30	301-E327-K07E024
301-V322	18:27:30	301-E327-K08E024
301-V322	18:26:30	301-E327-K09E024
301-V322	18:25:30	301-E327-K0AE024
301-V322	18:24:30	301-E327-K0BE024
301-V322	18:23:30	301-E327-K0CE024
301-V322	18:22:30	301-E327-K0DE024
301-V322	18:21:30	301-E327-K0EE024
301-V322	18:20:30	301-E327-K0FE024
301-V322	18:19:30	301-E327-K0GE024
301-V322	18:18:30	301-E327-K0HE024
301-V322	18:17:30	301-E327-K0IE024
301-V322	18:16:30	301-E327-K0JE024
301-V322	18:15:30	301-E327-K0KE024
301-V322	18:14:30	301-E327-K0LE024
301-V322	18:13:30	301-E327-K0ME024
301-V322	18:12:30	301-E327-K0FE024
301-V322	18:11:30	301-E327-K0EE024
301-V322	18:10:30	301-E327-K0DE024
301-V322	18:09:30	301-E327-K0CE024
301-V322	18:08:30	301-E327-K0BE024
301-V322	18:07:30	301-E327-K0AE024
301-V322	18:06:30	301-E327-K09E024
301-V322	18:05:30	301-E327-K08E024
301-V322	18:04:30	301-E327-K07E024
301-V322	18:03:30	301-E327-K06E024
301-V322	18:02:30	301-E327-K05E024
301-V322	18:01:30	301-E327-K04E024
301-V322	18:00:30	301-E327-K03E024
301-V322	18:59:30	301-E327-K02E024
301-V322	18:58:30	301-E327-K01E024
301-V322	18:57:30	301-E327-K00E024
301-V322	18:56:30	301-E327-K09E024
301-V322	18:55:30	301-E327-K08E024
301-V322	18:54:30	301-E327-K07E024
301-V322	18:53:30	301-E327-K06E024
301-V322	18:52:30	301-E327-K05E024
301-V322	18:51:30	301-E327-K04E024
301-V322	18:50:30	301-E327-K03E024
301-V322	18:49:30	301-E327-K02E024
301-V322	18:48:30	301-E327-K01E024
301-V322	18:47:30	301-E327-K00E024
301-V322	18:46:30	301-E327-K09E024
301-V322	18:45:30	301-E327-K08E024
301-V322	18:44:30	301-E327-K07E024
301-V322	18:43:30	301-E327-K06E024
301-V322	18:42:30	301-E327-K05E024
301-V322	18:41:30	301-E327-K04E024

3-8

AIP- H.264 FULL HD

/

FTP-

3-8-1

/

AIP- H.264 FULL HD

1 99 ().
, AIP- H.264 FULL HD

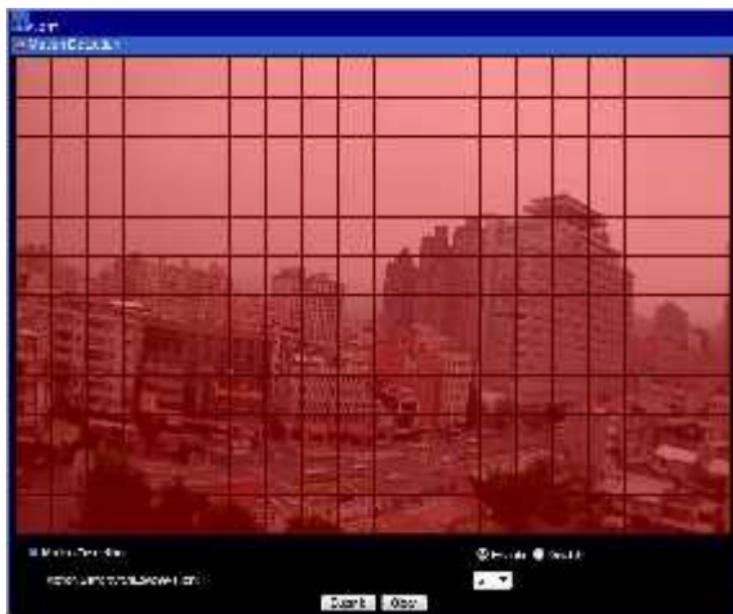
3-8-2

-
-
-

/



3-8-3



3-8-4

4

1/20

e-Mail

/

FTP.

1/20

1/10



3-8-5

AIP-



3-8-6

AIP-

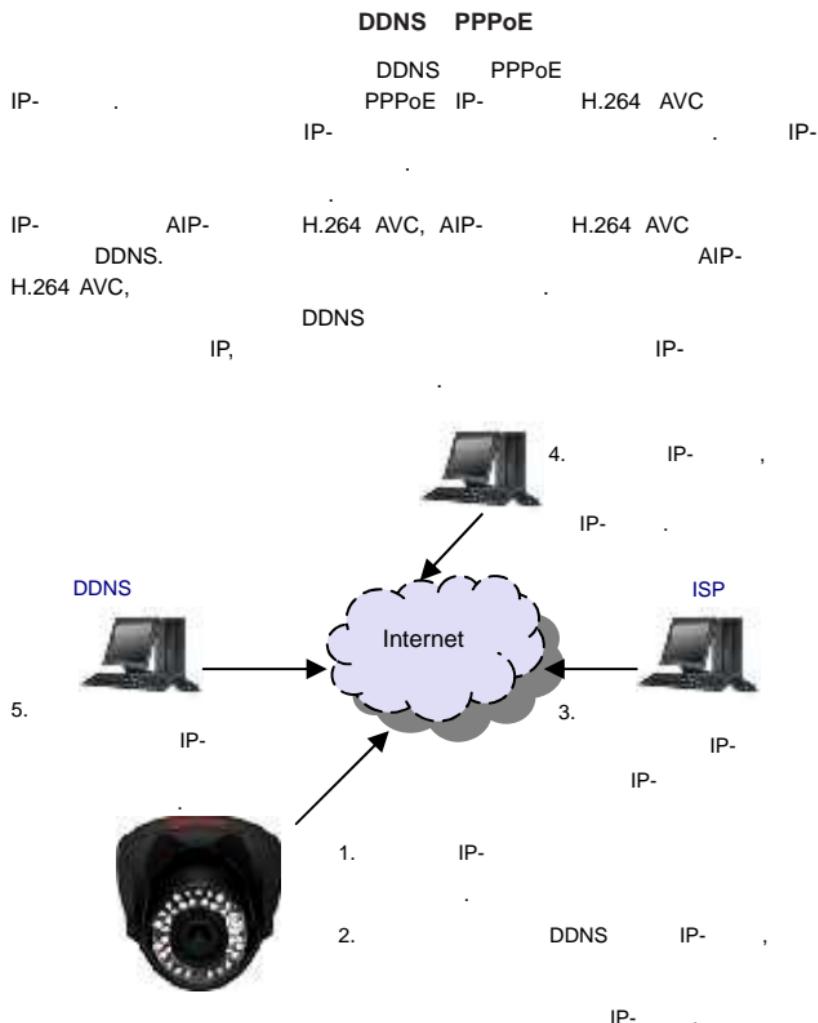
- , : (1) , (2)
(3) Enable ().



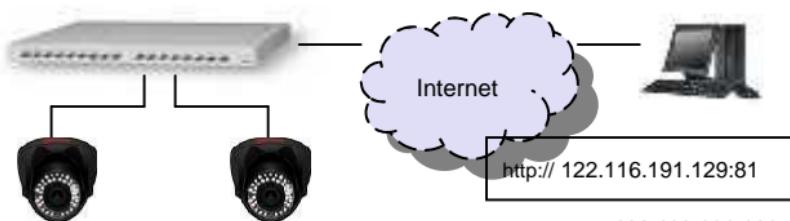
3-9

- MIC Volume ():
- Audio Input Mode ():
- Audio Input Gain ():
- Audio Output Volume ():
- Audio Coding Type (): G.711 u-Law
- Sample Rate ():
- Bit Rate ():





IP-
 . 80-
 , 192.168.0.10. (61.220.86.166)
 IP-
 192.168.0.11.
 81 (61.220.86.166:81),
 192.168.0.11.



IP: 192.168.0.11 IP: 192.168.0.10

Router's global IP: 122.116.191.129

Port 80: 192.168.0.10

Port 81: 192.168.0.11

iPhone

AiP

Live Cams Pro (Eggman Technologies Inc.)

AppStore

Pro

Eggman Technologies Inc.

iPhone

Live Cams



Camera" Live Cams Pro. ip « » / "Add



Android

Android
IP Cam Viewer/IP Cam Viewer Lite

Android Market
Robert

Chou.

IP Cam Viewer/IP Cam Viewer Lite.
«Setup» IP Cam Viewer/IP Cam Viewer Lite



« ».

“ / AiP ” -
AiP

“ / AiP ” -

1. : AiP DVR
2. : , AI.
3. : , AI D1/ AI HD/AI DVR.
4. IP : IP- , , http://122.116.191.129:86
86-

5. “admin” “pass”. AiP
“admin” “1111”. DVR,

AiP

1. Hold Load Default ()
 Reset Cable () 10 ,
 2. 40
 3.
 4. IPScan IP-
 IP.
 5. - IP- IP.
 6. " admin", "pass"
 IP-

		SDHC/SDSC
Sandisk	16GB	SDHC
Sandisk	8GB	SDHC
Transcend	8GB	SDHC
Transcend	4GB	SDHC

	H.264	JPEG,
	1080P(1920 x 1080), 720P(1280 x 720), D1(720 x 480), CIF(352 x 240)	
	H.264: 1920x1080 30	, MJPEG: 720x480 30
	H.264: 1280x720 30	, MJPEG: 352x240 30
	H.264: 1920x1080 30	, MJPEG: 1280x720 30
	H.264: 720x480 30	, MJPEG: 1920x1080 15
	RTSP: RTP/HTTP, RTP/TCP, RTP/UDP	
	5Mbps 128Kbps	
		CBR/VBR/GOP
		64 HTTP
		10
ePTZ & ROI		8
OSD		
	/	
		FTP
CPU,	SoC CPU	528M , 256 MB DDR,
-	A 0, , , ,	256 MB
	TTL +3VDC	+5VDC,
	DC 24 1A,	(N.O.),
		HTTP
	10Mbps/100Mbps, RJ-45	
	G.711 64Kbits	
	OS: Windows 2000, Windows XP, Windows Vista, Windows 7 : Windows Internet Explorer 6.0	
	CPU: Intel Pentium 4 1.8GHz	
	RAM: 1GB	
	IP, TCP, UDP, HTTP, SMTP, NTP, DDNS, UPnP, FTP, ARP, DHCP, PPPoE, DNS, RTSP, RTCP, Telnet, Onvif	
PDA		iPhone, iPad
	ONVIF HTTPAPI	
AIM	AIM HD 2.6	
OS		Linux 2.6.32

:

AirForce

AiP