Network Camera IE Browser User Manual (for Windows XP/Win7/win8/win8.1)

Document Version: V1.0

Device Firmware version applicable: 3.2.3.0

This Document should be applicable for AMBARELLA network cameras

Preface

Highly appreciated for using our network camera, this series network camera is designed as integrated network camera by purpose of video surveillance which includes network box camera, network infrared bullet camera, network dome and network PTZ etc. With adopting the high-efficiency *monolithic SOC* it has been integrated as a media processor of video and audio capturing, compression and transmitting. The standardized compression of Main & High profile makes sure the clear and smooth image transmitting. Users could remotely control and get real time image over IE browser causes this series camera has the embedded WEB server inside.

These series cameras could be applicable for moderate, small enterprises or family, or any situations need the remote video surveillance or transmitting. These cameras are easy installation and user friendly.

Declaration :

- The content of current document could be a little different with the version you are using, if you got any trouble that couldn't be helped by current document, please contact with our technicians or local distributor
- Our company reserves the right to update the current document occasionally without notification.

Applicable Object:

The current document would be mainly applicable for below engineers:

- System programmer staff
- Local technical support and maintenance staff
- System installation, setup, maintenance responsible staff, Products operating user

Document Appointed:

The "IP camera" in this document referred to AMBARELLA network camera

- Click: click the left-button of mouse once.
- Double Click: Double click the left button of mouse.
- With square brackets " I" means table name , menu name and datasheet , such like [PTZ Control]

Amendment Record:

Amendment record shall be available to record every relevant update of current document. The newest version shall contain all updated content of previous documents.

Updated Date	Version	Amendment Description

Catalogue

1	Download	and install ActiveX	6
2	login Syste	em	10
3	Real time	preview	11
4	Sytem par	ameter Setup	14
	4.1 Bas	sic Setup	14
	4.1.1	User	14
	4.1.2	Network	15
	4.1.3	Date&Time	
	4.2 Vide	eo& Audio	
	4.2.1	Video&Audio	16
	4.2.2	Image Quality	
	4.2.3	Infrared	
	4.2.4	Mask Setup	20
	4.2.5	OSD Setup	21
	4.2.6	ROI Setup	
	4.3 Eve	ents	
	4.3.1	Motion Detection	22
	4.3.2	Alarm Setup	
	4.3.3	Digital Input/Output	24
	4.4 Sys	stem Option	24
	4.4.1	SD Card	24
	4.4.2	Email	25
	4.4.3	FTP	26
	4.4.4	Maintenance	26
	4.5 Loc	al Setup	
	4.5.1	Local Setup	
	4.6 Abc	out	
	4.6.1	About	31
An	pendix 1 Ne	etwork ports of IP camera	
Ap	pendix 2 Th	ne default network parameters	
Ap	pendix 3 FA	AQ	

1 Download and install ActiveX

Users shall install the Active X plugins while accessing the IP camera over browser (Internet Explore) at first time Installation Method

Download and Install

Type the IP address of camera in the blank of browser (Internet Explore), for instance the default IP address: 192.168.1.88, log in the device and download the Active X plugins as figure 1-1



Figure 1-1

Manually download the Active X plugins or enter the password , download the plugins as system instruction

Internet Explorer blocked this website from installing an ActiveX control. What's the risk?

Figure 1-2

Pop out the download dialog, choose **[RUN]** or **[SAVE]** to download, after download please double-click the file of "web player.exe", click the button of "run" and choose the corresponding language to install the plugging as figure 1-3. Installation should follow the figure 1-4 and the as figure 1-5 displaying that the installation is finished.

Install

×



Figure 1-3

stalling		E
Please wait while W	/eb Player 3.1.0.1 is being installed.	1
Registering: C:\WI	NDOWS\WebPlay\WebPlayer.ocx	
Skipped: esfdmx.	plx	^
Skipped: g711ded	plx	
Skipped: hi264de	c.plx	
Skipped: jpegdec	.plx	
Skipped: RtspDm:	x.plx	
Output folder: C:	\WINDOWS\WebPlay	
Skipped: tpcore.c	10	
Skipped: VoiceEn	c.dll	
Skipped: WebPlay	/er.ocx	
Registering: C:\W	/INDOWS\WebPlay\WebPlayer.ocx	~
oft Install System	v2.46	
	< Back	Vevt > Cancel

Figure 1-4



Figure 1-5

Remark: The solving method for abnormal plugins installation:

While downloading and installing the plugins as figure 1-6, please fix the IE security level by following path : IE tool- >Internet Option -> Security Level-> Manual . Meanwhile you can fix the specification as figure 1-8 and 1-9



Figure 1-6

Select a	zone to v	ew or cha	nge secur	ity settings.	0	
Inter	net L	ocal intrar	n <mark>et</mark> Trust	ted sites Re	estricted sites	
٢	Interne This zone except the	t is for Int nose listed	ernet web l in trusted	sites, 1 and	Site	es
	- Med - A - P co - L	ium-high ppropriat rompts be ntent Insigned A	n e for most efore dowr ActiveX cor	websites nloading poten ntrols will not b	tially unsafe ve downloade	:d
V E	Enable Pro	otected M	ode (requi	res restarting	Internet Exp	lorer) level
				Reset all zon	es to default	level

Figure 1-7



Figure 1-8



Figure 1-9

2. If the plugins installation has been terminated by figure1-10, please close the IE and click [retry] to install plugins normally

Neb player	3.1.0.1			
An error occ F:\Windows\ Click Retry to installation.	curred while tryin system32\hi_h26 o try again, Igno	ig to copy a file 4dec.dll re to proceed	e: anyway, or Abor	t to cancel

Figure 1-10

2 System Login

After installed successfully please run the browser (Internet Explorer) and enter the IP address of IP camera, the default IP address of IP camera should be 192.168.1.88. Access the login interface (enter the user name, password (The factory default password: admin), click the login) as figure 2-1

		Login		
User Nam	e:	admin	_	
Passwor	d:	•••••		
		Login		
English	简	5 体中文	正體中文	
i) ii	2		n	

Figure 2-1

3 Live View

Live view interface as figure 3-1:



Figure 3-1

On the Live View Page, user can do Snapshot, Record, Playback, Talk, Listen, Clear Alarm, Log Search, Full Screen, PTZ Control, switch between stream 1 and stream 2 etc.

PTZ	View	Image	PTZ	View	Image	PTZ	View	Image	
Speed:		II Zoom I	Fli Mirro AW	p: T: B: Auto Ir: WDR Hig	∨ h ∨	Brightne Contra Sharpne Saturatio Df	ss: ss: on: IR:		
Toolbox	I/O	Log	Toolbox	1/0	Log	Toolbox	1/0	Log	
List Snap: Pla	en Shot	😨 Talk Record Stop	O Input Input	1 2	Relay 1	Event Log System Lo 05-16709:29:	g az 192.168.1.1	.03 91	

Figure 3-2

PTZ Function:

[PTZ] Click Up, Down, Left, Right and adjust the speed of rotation etc. To control PTZ, Zoom in/out, Focus, Iris adjustment etc are available as well, see Figure 3-2 Remark:

If the camera is built with Motorized Lens, please click the button of correct the lens automatically and make the image clear.

View :

[View] Click to turn Flip/Mirror on/off and select the preferable mode of White Balance(Auto,Auto(EXT),3000K,5000K,8000K), select to turn WDR off or WDR as Low/Middle/High/BLC/HLC, see Figure 3-2

[Image] To setup Brightness, Sharpness, Contrast, Saturation, DNR. Click reset all the above parameters to original factory default values.

[Listen] Click with to turn Listen on, the live sound can be listened at the end of

PC.Displayed status after enabling Listen:

[Talk] Click to turn Talk on, the talk between PC and IP Camera can be

performed after the talk device has already been installed in the IP Camera.

Displayed status after enabling Talk:

- [Snapshot] Click Snapshot button of "' to take a snapshot of the current video image which will be stored in the snapshot path, the snapshot pic should be JPEG format (The path : c:\Users\user\pictures , also it is adjustable).
- [Record] Click Record button to record the current videos, the recorded videos will automatically be saved in the record path and format is H.264 (The Path: c:\Users\user\pictures.also it is adjustable).

[Play] Click to play the recorded videos.

[Stop] Click to stop playing the live videos

[input 1/Input 2] With making the alarm input interface of camera short circuit, the alarming led of input 1 and input 2 would be turn on. The status before alarm triggered as and after triggered

[Relay] Click and a clicking sound will be emitted by device itself to alarm.

[Event Log] Show the status of alarm.

[System Log] Show the status of login.

Others:

Click the button of would hide the interface module of PTZ , View, image , tool box and I/O etc

[Stream 1] To view real-time videos in main-stream to get the best quality of images.

[Stream 2] To view real-time videos in sub-stream to lower the burden of network

[Full Screen **]** Double click the left mouse button to view videos in full screen, double click again or press ESC to cancel full screen view.

[Record File] Which is the function of video playback, click the button of Playback to access the local video recording path as figure 3-3, in this folder that you can chose the video or snapshot, click the button of \bigcirc to play it which would be displayed on the right video window.

PTZ	View	Image	L	Camera 1									
Brightne	ss:						Select Loa	ad File				×	
Contra	st: 🔳				 Image: Image: Ima	• 🕇 퉬 « (D:)	▶ User	~ C				٩	
Sharpne	ss:	=			Organization	 New folder 				•		0	
Saturatio DN Reset	ır: ir: 1/0	Log	1			192.168.10.88_1 15_2_26_10_1_1 4.esf	192.168.10.88_1 19.2_2.6_10_49_ 44.jpg						
Liste Co Snapsl	n D hot	Talk				File name (N):	i.htm	~	All files (*.*) Turn on (O)		Cancel	• 	
C)	0											
Play		Stop		Stream 1	Stream 2 Playb	ack							

Figure 3-3

4 Setup

4.1 Basic setup

4.1.1 User

User interface as figure 4-1:

▼ Basic Setup	llsers			
O Users				
Date & Time	Administrator: ad Change Password:	admin		
Video & Audio	Verify Password:			
Events Sustam Ontions	Normal User 1: us	user		
	Change Password:			
Local Setup	Verify Password:			
About	Normal User 2: vi	viewer		
	Change Password:			
	Verify Password:			
	User Setting Z Enable AnonmousViev Note: If you won't chang	wer Login(no user nam ge password, leave pas	e or password required). word fields blank.	
	Save			

Figure 4-1

[User] User could set two regular authorized user by login as administrator,

regular user has no right to configure IE interface

[User] if user chose this option that anonymity user could login camera with no user name or password to get image, but anonymity has no right to do any configuration.

The setup would be affected after click the button of [Save]

4.1.2 Network

The network setup interface as figure 4-2

Basic Setup Users	Network Settings	
• TCP/IP	Bandwidth Settings	
Date & Time	● 10M	
Video & Audio	• 100M • Auto	
• Events	IPv4 Address Configuration	
System Options	• Use the following IP address	
Local Setup	IP Address: 192.168.1.111 Subnet Mask: 255.255.0	
About	Default Gateway: 192.168.1.1	
	DNS Configuration	
	Primary DNS: 192.168.1.1	
	Secondary DNS: 192.168.2.1	
	Port Configuration	
	HTTP Port: 80	
	RTSP Port: 554	
	Save	



[Bandwidth Setting] Set the bandwidth of camera and basing on the environment to choose the bandwidth of 10M/100M, the factory default is automatically.

[IPv4 Address Configuration] There are two way to get the IP address for camera, one is DHCP which would get IP address automatically from router , the other is manual setting.

[DNS Configuration]

DNS Address : Device default DNS address: 192.168.1.1 If the DNS address in unclear that please use 8.8.8.8

[Port Configuration] HTTP Port: 80, RTSP Port: 554, these are factory default values but can be specified if required.

Click [Save] to apply the new settings

Remark: The device will reboot after save the changing of Network parameter, if the device is in local Area Network that user should be reminded of the IP address conflict.

4.1.3 Time & Date

The Time and Date setting as figure 4-3:

Camera Time: Date: 2015-05-16 Time: 09:44:31 Video & Audio Camera TimeZone Timezone: [GMT+8:00] Beijing, Hongkong, Perth, Singapore, Taipei ✓ Events Apply Apply ✓ About Time Mode About Time Mode Notor Date: 2015-05-15 Time: 17:43:50 Ocal Setup Oserver NTP Server 2: time.windows.com NTP Server 2: time.buptnet.edu.cn <		Camera Current Time
Clasted Time Camera TimeZone Events Timezone: [GMT+8:00] Beijing, Hongkong, Perth, Singapore, Taipei System Options Apply I.ocal Setup Keep Current Setting About Synchronize with computer time Date: Time: 17:43:50 Synchronize with NTP server NTP Server 2: time.bupInet.edu.cn Set manually Date: Time: Time:	O Date & Time	Date: 2015-05-16 Time: 09:44:31
Wileo & Adulto Camera TimeZone Events Timezone: [GMT+8:00] Beijing, Hongkong, Perth, Singapore, Taipei System Options Imme Mode Local Setup Keep Current Setting About Date: 2015-05-15 Time. Mode Synchronize with NTP server NTP Server 1: time. windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time: Time:	Video 8 Audio	
 ▶ Events > System Options > Local Setup > About Time Mode O Keep Current Setting > Synchronize with computer time Date: 2015-05-15 Time: 17:43:50 Synchronize with NTP server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time: time 	Video & Audio	Camera TimeZone
> System Options > Local Setup > About Date: 2015-05-15 Time: 17:43:50 Synchronize with NTP server NTP Server 1: NTP Server 2: time.bupinet.edu.cn • Set manually Date: Time:	Events	Timezone: [GMT+8:00] Beijing, Hongkong, Perth, Singapore, Taipei
 > System Options > Local Setup > About Time Mode O Keep Current Setting Synchronize with computer time Date: 2015-05-15 Time: 17:43:50 Synchronize with NTP server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time: 		Apply
Local Setup Time Mode O Keep Current Setting Synchronize with computer time Date: 2015-05-15 Time: YTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time:	System Options	
About O Keep Current Setting O Synchronize with computer time Date: 2015-05-15 Time: 17:43:50 Synchronize with NTP server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn O Set manually Date: Time:	l ocal Setup	Time Mode
About Date: 2015-05-15 Time: 17:43:50 Synchronize with NTP server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time:		• Keep Current Setting
Synchronize with NTP server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time:	About	Synchronize with computer time
Synchrönize wirdt Nill Server NTP Server 1: time.windows.com NTP Server 2: time.buptnet.edu.cn Set manually Date: Time:		
NTP Server 1: <u>imme.windows.com</u> NTP Server 2: <u>time.buptnet.edu.cn</u> Set manually Date:		Synchronize with NIP server
NTP Server 2: time.buptnet.edu.cn Set manually Date: Time: Time:		WTP Server 1: unite.windows.com
● Set manually Date: Time: Time:		NTP Server 2: time.buptnet.edu.cn
Date: Time:		Set manually
		Date: Time:
		Save
Save		



[Camera Current Time] Displaying the current time of camera.

[Camera Time Zone] Select the local time zone from the Time Zone dropdown list.

[Time Mode] Keep Current Setting, Synchronize with computer time, Synchronize with NTP Server (to enter the host name or IP address is required if selected), Set manually. Click [Save] to apply the new settings.

4.2 Video& Audio

4.2.1 Video Audio Setting

The video audio setting as figure 4-4

Basic Setup	Video Audio Settings
▼ Video & Audio	
O Video & Audio	Stream 1 Stream 2 JPEG Audio
Image Quality	
IR	Resolution: 1920x1080 💙
Mask Settings	Encoding Profile: Main 💙
OSD Settings	Rate Control: CBR 💙
ROI Settings	Low Bitrate: Off 🛛 🗸
Events	Max Bitrate: 8000 kbis/sec[512~8000] << 3500
▶ System Options	Max Frame Rate: 30 frame/sec[1~30]
	KeyFrame Interval:
▶ Local Setup	Audio Status: On
▶ About	
	Save

Figure 4-4

Stream 1/Stream 2:

[Resolution] Set the resolution of image:

1080P: Stream 1: 1920*1080/1280*720

Stream 1: 720×576/720×480/640×480/320×240

[Encoding Profile] Select Main or High Profile according to demands of users.

[Rate Control] VBR and CBR are optional. VBR adopts variable bit rate for

encoding whereas CBR use constant bit rate by setting a target bit rate.

[Low Bitrate] This depends on demands of users to turn low bit rate on or off.

[Max Bitrate] Stream 1 and Stream 2 can be set in the range 512 \sim

8000Kbps/32~2500Kbps, where a higher value will produce a better video stream but the more bandwidth will correspondingly be used up. The bit rate should be set according to the actual bandwidth.

If CBR, [Bit rate] means the constant bit rate value of current encoding profile.

If VBR, [Bit rate] means the maximum bit rate value of current encoding profile.

[Max Frame Rate] Set the frame rate per second, in case the network condition is poor, it's recommended to control the bit rate by lowering the frame rate to enable moving images to be streaming smoothly.

[Key Frame Interval] Key frame interval number could be set from 1-5 seconds [Audio Status] On and Off

[JPEG] Enable JPEG, resolution 1920×1080/320×240, quality 0~100。

[Audio] Input Source: Line in/Microphone, Input Gain: 0~100, Output Volume: 0~100.

Click **[Save]** to apply the new settings.

4.2.2 Image Quality

The image quality setting as figure 4-5

▼Video & Audio Video & Audio Video & Audio Image Quality IR Mask Settings OSD Settings ROI Settings > System Options > Local Setup > About	▼ Video & Audio ∨ Video & Audio ○ Image Qualty IR Mask Settings OSD Settings ROI Settings ► Events > System Options > Local Setup > About	Video & Audio Video & Audio Image Quality IR Mask Settings OSD Settings ROI Settings Events System Options Local Setup About Data Save Save	Basic Setup	Image Quality
ROI Settings > Events > System Options > Local Setup > About Image Properties Daytime Brightness: Sharpness: Contrast: Saturation: DNR: Difaults Defaults	ROI Settings > Events > System Options > Local Setup > About Defaults Save	ROI Settings Events System Options Local Setup About Defaults Save	Video & Audio Video & Audio O Image Quality IR Mask Settings OSD Settings	Basic Settings Flip: Off V AWB: Auto V Wdr: WDR High V Exposure Settings Min: Anti-Flicker: 50Hz V Shutter Time: 118000 1130 Flig: 0 1130
> Jocal Setup Sharpness: Sharpness: > Local Setup Saturation: Saturation: > About Defaults Defaults	> System Options Sharpness: Sharpness: > Local Setup Contrast: Contrast: > About DNR: Saturation: Defaults Defaults	Sharpess: Sharpess: Contrast: Contrast: Sharpess: Contrast: Donate Sharpess: Contrast:	ROI Settings Events Suptom Options	Image Properties Daytime Brightness: Brigh
About Defaults Defaults	About Defaults Save	About Defaults Defaults	System Options Local Setup	Sharpness: Sharpness: Contrast: Contrast: Saturation: Saturation: DNR: DNR:
	Save	Save	▶ About	Defaults

Figure 4-5

[Basic Settings] Setup Flip on/off、Mirror on/off、AWB

Auto/Auto-Ext/3000K/5000K/8000K、WDR Off/Low/Middle/High/BLC/HLC

[Exposure Settings] Select the power line frequency (50HZ/60HZ) to avoid image flicker, 50HZ is suitable for PAL, 60HZ for NTSC. The minimum shutter speed is 1/8000s, the maximum 1/30s.

[Image Properties] To setup Brightness, Sharpness, Contrast, Saturation, DNR

[Default] Click Defaults to reset all image quality to the factory default values.

Click [Save] to apply the new settings.

NOTE: WDR is a feature that enables objects in both bright and dark areas to be visible.

4.2.3 IR

IR interface setting as figure 4-6

Network Camera IE Browser User	Manual	
--------------------------------	--------	--

▶ Basic Setup	IR Settings
▼ Video & Audio	ICR Control: Active Low
Video & Audio	IR Light Control: Active High
Image Quality	IR Light Brightness:
	Color to Gray Lux:
	Gray to Color Lux:
Mask Settings	Day Night Mode: By IR 🗸
OSD Settings	Switch On Level Active low
ROI Settings	
▶ Events	
System Options	Save
► Local Setup	
▶ About	



[ICR Control] Only works for the device with IR-CUT and infrared lights, for instance while you set the ICR control with active low which means the camera would be in night model with low level.

[IR light control] if IR light board is defaulted as high level active, so the camera must set the high active and then the IR light would be enabled, otherwise the IR light will not available.

【IR light brightness】 Null

[Color to Gray Lux] Set the color to gray lux

[Gray to color Lux] set the gray to color lux

[Day Night Model] Set the IR light model : Auto detection; color; B/W; by time.

[Switch on Level] Auto photo resistance : By photo resistance to detect the radiance, To provide two kind model focusing on different manufacturers' IR board: 1 Active low, while the photo resistance get the correct illumination that device will change to night model by low level; 2 Active High, while the photo resistance get the correct illumination that device will change to night model by High level.

(By time **)** Set the time of device changing to night or daylight model as figure 4-7:

ICR Control:	Active Low
IR Light Control:	Active High
IR Light Brightness:	
Color to Gray Lux:	
Gray to Color Lux:	
Day Night Mode:	By Time 🗸
To Day:	7 🗸 : 30 🗸 : 0 🗸
To Night:	18 🗸 💠 30 🗸 😳 🗸

Figure 4-7

[Auto Detection] Device will judge if switch to Night version by the sensitization component, as figure 4-8:

ICR Control:	Active Low	~		
IR Light Control:	Active High	\sim	·	
R Light Brightness:				
Color to Gray Lux:				
Gray to Color Lux:	-			
Day Night Mode:	Auto Detection	~	·	
IR Delay:	Low	~		
AGC Threshold:				
AGC Margin:				
Smart IR:				



Click **[Save]** to apply the new settings. (The device will restart if the coding level is changed)

4.2.4 Mask setting

The Mask Setting as figure 4-9:

Basic Setup	Privacy Masks
 ▼ Video & Audio Image Quality IR Mask Settings OSD Settings ROI Settings Events System Options Local Setup About 	<section-header><section-header></section-header></section-header>

Figure 4-9

[Edit Zones] Select Zone、Start Edit、Add Zone、Remove Zone、Modify Zone、

End Edit.

[Enable Privacy Mask] Click to enable Privacy Mask.

Click **[Save]** to apply the new settings.

4.2.5 OSD Setting

IP Camera OSD setting as figure 4-10:



Figure 4-10

Stream 1/Stream 2:

[Enable Display Time] Click to enable Display Time: Position, Font Size,

Transparency.

[Enable Display Text 1/2] Position、Font Size、Transparency、Text.

[Text color /Background color] Click the text color pan to choose the character color, to

click the background color pane to choose the video displayed character color

Click **[Save]** to apply the new setting.

4.2.6 ROI Setting

The ROI Setting as figure 4-11:



Figure 4-11

[Edit Zones] Select Zone、Quality(Motion/Normal/Background)、Start Edit、Add

Zone、Remove Zone、Modify Zone、End Edit.

[Enable ROI] Click to enable ROI

Click **[Save]** to apply the new settings.

4.3 Events

4.3.1 Motion detection

The motion detection as figure 4-12:

Basic Setup Video & Audio Events Motion Detection Alarm Settings Digital I/O System Options Local Setup About	Motion Detection Image Appearance Select Zone: Start Edit: Start Edit:
	Enable Motion Detection Save

Figure 4-12

[Edit Zones] Select Zone、Start Edit、Add Zone、Remove Zone、Modify Zone、 End Edit.

[Enable Motion Detection] Click to enable Motion Detection

[Sensitivity] To setup the sensitivity of Motion Detection, ranging from 0~100, the

bigger the value is , the higher the sensitivity will be.

Click [Save] to apply the new settings.

4.3.2 Alarm Setting

The Alarm Setting as figure 4-13:



Figure 4-13

[Enable Alarm] Output Duration ranges from 0~600 seconds, Motion Detection

Interval 15~3600 seconds, Timing Alarm Interval 10~24*3600 seconds.

[Motion Detection Alarm Settings] Snapshot can be set as None/Snapshot/Snapshot and Sent E-Mail/Snapshot and Send to FTP/All Above; Record can be set as None/Record/Record to FTP; Output can be set as none/Output to Port 1.

[Alarm Linkage Settings] Snapshot can be set as None/Snapshot/Snapshot and Sent

E-Mail/Snapshot and Send to FTP/All Above; Record can be set as

None/Record/Record to FTP; Output can be set as NONE/Output to Port 1.

Click **[Save]** to apply the new settings.

4.3.3 Digital I/O

The Digital I/O setting as figure 4-14:

Basic Setup	Digital I/O Settings
Video & Audio	Input
Motion Detection	Alarm Linkage Settings
Alarm Settings	Snapshot: None
Digital I/O	Record: None
System Options	Output: None
	Relay
Local Setup	Initial State: Open
About	Mode: Mono-Stable
	Delay: 15 Seconds [0~600]
	Save

Figure 4-14

[Digital Input] Input: Active Low/Active High

[Alarm Linkage Settings] Snapshot can be set as None/Snapshot/Snapshot and Sent

E-Mail/Snapshot and Send to FTP/All Above; Record can be set as

None/Record/Record to FTP; Output can be set as NONE/Output to Port 1.

[Digital Output] Initial State: Open/Close; Mode: Mono-stable/Bi-stable, Range of Delay from 0~600 seconds

Click **[**Save**]** to apply the new settings.

4.4 System Option

4.4.1 SD Card

The SD card setting of IP Camera as figure 4-15:

Network Camera IE Browser User Ma	nua
-----------------------------------	-----

▶ Basic Setup	SD Card
▶ Video & Audio	Information
► Events	Status: Not Present
System Options SD Card SMTP(EMail) FTP Maintenance Local Setup About	Capathy Used: Free: Refresh Files View
	Management Mount Unmount Format Request refused or failed, error code: 404.

Figure 4-15

[Information] SD card status , Capacity , used(the capacity used) free (the capacity left)

[Files] Click to check the pictures or recording files in SD card, meanwhile you can download this file from the SD card [Management] With camera powered on to click Mount for plug in the SD card directly and you can find the SD card information after refresh, to click Unmount for plug out SD card, to click Format to format the SD card.

4.4.2 SMTP (Email)

The SMTP setting as 4-16:

Figure 4-16

[Server Settings] To setup Mail Server, User Name, Password

[Account] Sender/Receiver Account

Click **[Save]** to apply the new settings.

4.4.3 FTP

The FTP setting as figure 4-17

▶ Basic Setup	FTP		
▶ Video & Audio	FTP Settings		
	FTP Server:	(Host Name or IP)	
Events	FTP Port:		
System Options	User Name:		
SD Card	Password:		
SMTP(EMail)	Remote Path: <mark>./</mark>		
• FTP			
Maintenance			
	Save		
About			

Figure 4-17

FTP is used to send recorded files and snapshots triggered by alarm to the specified FTP Server.

[FTP Server] the IP address of FTP Server

[FTP Port] the Port of FTP Server

[User Name] the User registered in the FTP Server

[Password] the Password corresponded to User who registered in the FTP Server

[Remote Path] the Path of FTP Server. In case the path doesn't exist or is blank, a new file will automatically be created in root directory of FTP Server.

Click [Save] to apply the new settings.

4.4.4 Maintenance

The maintenance setting as figure 4-18

Basic Setup	Maintenance	
Video & Audio	Restart: Restart	
Events	Restore: Restore Resets all parameters, except the IP parameters, to the original factory settings.	
System Options	Reset: Defaults Resets all parameters to the original factory settings.	
SMTP(EMail)	Upgrade	
FTP O Maintenance	浏览 Upgrade	
Local Setup	· · · · · · · · · · · · · · · · · · ·	
About		

Figure 4-18

[Restart] Click Restart to reboot the camera.

[Restore]Click reset all parameters, except the IP parameters, to the original factory settings.

lactory settings.

[Defaults] Click eraute to reset all parameters to the original factory settings

(Upgrade) Click Browse button and locate the correct upgrade file on your computer(suffix as .udf), click Upgrade and then upgrade progress will be displayed in the page. After the upgrade process has completed, the IP camera will restart automatically. Then wait approximately 60 seconds to access the IP camera for checking if the firmware is the upgraded version.

Notice : Users should follow the below setup before use WEB to upgrade WEB Step One: Tool-> Internet Option

Step Two: Security – Internet & Local internet -> Custom Level as figure 4-19

Internet Options				? X
General Securit	y Privacy Co	ntent Connec	tions Programs	Advanced
Select a zone to	view or change	security setting	15.	
Internet	Local intranet	Trusted sites	Restricted	
Inter	net		Si	-ec
Security level Allowed leve	t those listed in t ited zones. for this zone els for this zone: edium-high	rusted and Medium to High		
 	 Appropriate for Prompts before content - Unsigned Activ Protected Mode 	r most websites e downloading p eX controls will (requires restar	otentially unsafe not be download ting Internet Ex	ed plorer)
		Custom level.	Default	: level
		Reset al	l zones to defaul	tlevel
		ок	Cancel	Apply

Figure 4-19

Step Three:find the 'including the local catalogue path while uploading the file to server ", enable it and click the confirm. Close the IE and reopen it; as figure 4-20



Figure 4-20

Step Four: Login the IE interface -> Setup -> System Option -> Maintenance, click the "Browse" to pop out the local dialogue t, choose the update file. As figure 4-21

Basic Setup Maintenance	
Video & Audio Restart: Restart	Select Load File
▼ System Options Reset: Defaults Reset:	 (€) → ↑
SU Card SMTP(EMail) FTP O Maintenance ▶ Local Setup ▶ About	cmsrec Name Time Type CorelDRAW X4 Image: Stress of the st

Figure 4-21

Step Five: Double click the update file or click the fie and then click the button of open as figure 4-22

▶ Basic Setup	Maintenance
▶ Video & Audio	Restart: Restart
▶ Events	Restore: Restore all parameters, except the IP parameters, to the original factory
System Options	Reset: Defaults Resets all parameters to the original factory settings.
SD Caro SMTP(EMail)	Upgrade
FTP O Maintenance	D:UsertFW_3.2.3.0-WDF 浏选 Upgrade
▶ Local Setup	
▶ About	

Figure 4-22

Step Six: After the: Click the update after chooses the updating file path, as figure4-23

▶ Basic Setup	Maintenance
▶ Video & Audio	Restart: Restart
▶ Events	Restore: Resets all parameters, except the IP parameters, to the original factory
System Options	Reset: Defaults Resets all parameters to the original factory settings.
SMTP(EMail)	Upgrade
FTP Maintenance	D:\User\FW_3.2.3.0-WDF 浏览 Upgrade
▶ Local Setup	UPGRADING, PLEASE DO NOT POWER OFF THE DEVICE, DO NOT LEAVE THIS PAGE, STAND BY170
▶ About	

Figure 4-23

Step Seven: After update finished the interface would change to the login interface automatically as figure 4-24



Figure 4-24

4.5 Local Setup

4.5.1 Local Setup

Local Setup as figure 4-25

Basic Setup	Local Settings
Video & Audio	Display Mode O Safe Mode
Events	Optimized Mode
System Options	Local Record Duration Record Duration: 10Minute(s)
Local Setup	Path Settings
D Local Setup	Record Path: C:\Users\tong\Pictures
About	Snapshot Path: C:Usersitong\Pictures
	Save

Figure 4-25

[Display Mode] Safe Mode and Optimized Mode

[Local Record Duration] To set up a packing time for each local recording.

[Path Settings] To specify the storage path where local recording and snapshot

are saved. If it doesn't exist in the local files, the recording and snapshot will not be saved

[Software Downloads] Click Download to download the latest software.

Click [Save] to apply the new settings.

4.6 About

4.6.1 About

The About interface of IP Camera as figure 4-26

[Host Name] Device Name

[Firmware Version] Firmware Version

[Firmware Date] Update date of Firmware

[Web Version] Web Version

[OCX Version] OCX Version

[ONVIF Version] ONVIF Version

[Hardware ID] Hardware ID

[Model] Model of Camera

[Sensor Type] Type of Sensor

[Device ID] Device ID of Camera

Appendix 1 Network Interface of IP Camera

80Web portTCP554Communication port, audio/video data
transmission port, talkback data transmission
portMulti-cas
t portMulticast original port + channel number
t PortONVIF80

The default network ports of IP camera are:

Appendix 2 Default Network Parameters

Default network parameters

Cabled Network: IP Address: 192.168.1.88 Subnet mask: 255.255.255.0 Gateway: 192.168.1.1	Data Port: 554 Web Port: 80 DHCP: Off
Wireless Network:	BHCF. OII
IP Address: 192.168.1.160	Frequency: Auto
Gateway: 192.168.1.1	Mode: Auto
Subnet mask: 255.255.255.0	

Appendix 3 FAQs

1、 Forget Password

Solution: There is a [RESET] button on the back panel of the IP camera, press it with 10 seconds or above, then loosen it 1-2 seconds. Camera will restore all default parameters (Factory Settings), user name and password are both "admin".

Notice: Please don't press RESET if you are not a professional operator. After reset, all parameters will restore factory settings (except for the physical network address).

2. IP camera audio/video function fails after abnormalities or abnormal power cut occur during upgrade, core edition is V4.0.0.0 (Backup file) Solution: Connect the power cord and network cable of IP camera, press on

> RESET button and release it after 10 seconds, system will run the back-up programmer automatically. After enter into the back-up programmer, upgrade system. After upgrade completes, the IP camera will work normally. The back-up programmer offers only upgrade and parameter setup functions, audio and video functions are not available.

3. No video image displayed in IE browser Possible reason: ActiveX not installed

Solution: ActiveX must be installed when visiting IP camera for the first time via Internet Explore.

How to install: Visit IP camera, click [file], file download dialog will pop up,

select [Run] or [Save] to download. Please reference the ActiveX install part to install the ActiveX.

4. Fail to visit IP camera via IE after upgrade Solution: Delete the caching of Browser.

Steps: Open IE—click "Tools"—select "Internet Options"—click "delete files" button in "Internet temporary files", select "delete all offline contents", then click "OK" and re-log in IP camera.

5. The images do not smoothly

Possible reason 1: The frame rate of IP camera is too low.

Solution: Increase the video frame rate

Possible reason 2: Too many users are viewing the images.

Solution: Block some clients or reduce the video frame rate.

Possible reason 3: The bandwidth is low.

Solution: Reduce video frame rate or video compression bitrate.

6. Fail to visit IP camera via IE browser

Possible Reason 1: Network is disconnected.

Solution: Connect your PC to network, checking whether it works properly or

not. Check whether there is cable failure or network failure caused

by PC virus, until PCs can be connected with the command of Ping.

Possible reason 2: IP Address has been occupied by other devices

Solution: Stop the connection between IP camera and Network, hook up IP

camera to PC separately, reset IP address according to the proper operations recommended.

Possible reason 3: IP addresses are in different subnets.

Solution: Check IP address, subnet masking address of the DVS and the settings of Gateway.

Possible reason 4: Physical address of network conflict with IP camera

Solution: modify the physical address of IP camera.

Possible Reason 5: Web port has been modified

Solution: Contact Network Administrator to obtain related information.

Possible Reason 6: Unknown

Solution: Press RESET to restore default settings then connect it again, the default IP address is 192.168.1.88, subnet mask is 255.255.255.0

7. There is no sound while monitoring

Possible Reason: No audio input connection

Solution: Check audio connection of the host

Possible Reason 2: the audio option of IP camera is off

Solution: Check audio parameter settings to see if you have opened the audio.

8 Pro-search software cannot find device

Possible reason: Pro-search software adopts multicast protocol to perform

searching. But the firewall forbids multicast data packet.

Solution: disable the firewall.

9. Image processing does not work properly

Possible Reason 1: system issue, DirectX function is disabled, which will cause slow display of images and abnormal color.

Possible Reason 2: hardware issue, graphics card does not support image acceleration and hardware zooming functions. (For hardware issue, the only solution is to replace graphics card)

Solution: install DirectX image drive, then Start \rightarrow Run \rightarrow input "DXDIAG" as follows:

Notice : Enable DirectDraw speedup, Direct3D speedup, AGP veins speedup in DirectX function. If they cannot be enabled, that means DirectX installation fails or hardware not supportive.

