

# **IP Camera User Manual**

O3FDP9 /O3FB56M /O3FB68 /O3FD8M O2iBD3 /O2iB68 / O2iB68M/ O2iD8 /O2iD8M O2B6M /O2iB50M /O2D6M /O2iD9 /O2iB9

Please read this manual carefully before operating the unit and keep it for further reference.

## **Important Safeguards and Warnings**

## Welcome

Thank you for purchasing this network camera!

This owner's manual is designed to be a reference tool for your system.

Please read this manual carefully before operating the unit and retain it for future reference.

Should you require any technical assistance, contact Speco Technologies Tech Support at 1-800-645-5516

## **Important Safeguards and Warnings**

## 1. Electrical safety

All installation and operation here should conform to local electrical safety codes.

Use a certified/listed 12VDC Class 2 power supply only.

Please note: Do not connect two power supplying sources to the device at the same time; it may result in device damage! The product must be grounded to reduce the risk of electric shock.

Improper handling and/or installation could run the risk of fire or electrical shock.

## 2 . Environment

Heavy stress, violent vibration or exposure to water is not allowed during transportation, storage and installation.

This product should be installed in a cool, dry place away from direct sunlight and heat sources.

Do not install the product in extreme temperature conditions.

Do not expose the camera to electromagnetic radiation. Otherwise it may result in CMOS sensor failure.

Do not block any ventilation openings.

Do not allow water and liquid intrusion into the camera.

## 3. Operation and Daily Maintenance

Please shut down the device and then unplug the power cable before you begin any maintenance work.

Do not touch the CMOS sensor optic component. You can use a blower to clean the dust on the lens surface.

Always use the dry soft cloth to clean the device. If there is too much dust, use a cloth dampened with a small quantity of neutral detergent. Finally use the dry cloth to clean the device.

Please use a professional optical cleaning method to clean the enclosure. Improper enclosure cleaning (such as using cloth) may result in poor IR functionality and/or IR reflection.

The grounding holes of the product are recommended to be grounded to further enhance the reliability of the camera.

Dome cover is an optical device, please don't touch or wipe cover surface directly during installation and use, please refer to the following methods if dirt is found:

Stained with dirt: Use oil-free soft brush or hair dryer to remove it gently.

Stained with grease or fingerprint: Use oil-free cotton cloth or paper soaked with alcohol or detergent to wipe from the lens center outward. Change the cloth and wipe several times if it is not clean enough.

## Warning

This camera should be installed by qualified personnel only. All the examination and repair work should be done by qualified personnel. Any unauthorized changes or modifications could void the warranty.

## Statement

This guide is for reference only.

Product, manuals and specifications may be modified without prior notice. Speco Technologies reserves the right to modify these without notice and without incurring any obligation.

Speco Technologies is not liable for any loss caused by improper operation.

## Note:

Before installation, check the package and make sure that all components are included.

Contact your rep or Speco customer service department immediately if something is broken or missing in the package.

Accessory Name	Amount
Network Camera Unit	1
Junction Box	1
Quick Start Guide	1
Installation Accessories Bag	1
CD	1

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## **1. Introduction**

Thank you for purchasing this network camera!

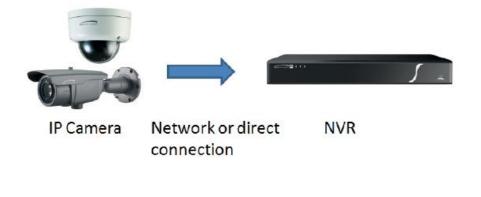
Please read this manual carefully before operating the unit and retain it for future reference. Should you require any technical assistance, please contact Speco Technologies Technical Support.

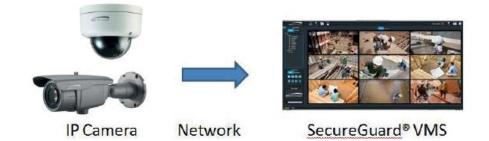
Applications



**IP** Camera

Network Web Browser





## 2. Web Access and Login

The IP camera settings can be accessed via a web browser through the LAN.

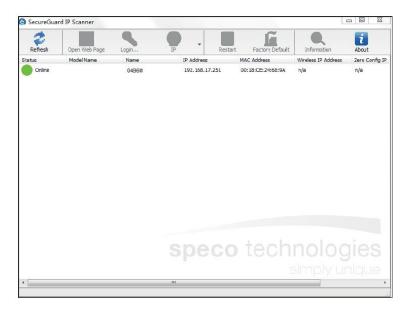
## 2.1 LAN

· Access through IP Scanner

Network connection:



- Make sure that the camera and the PC are connected on the same local network. The camera is set to DHCP by default and will be assigned an IP address by the DHCP server.
- Make sure that the local network has a DHCP server. Routers typically have a DHCP server built in.
- ② Install IP Scanner from the CD and run it after installation. IP Scanner is the tool for discovering the IP cameras on the local network.

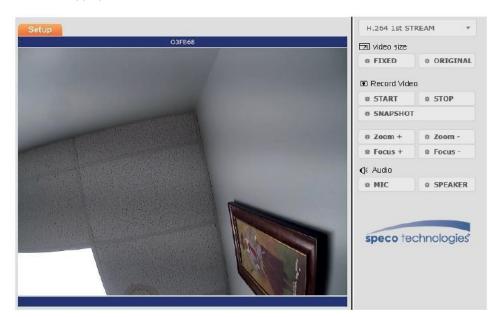


③ In the device list, the IP address, model number, and MAC address of each device will be listed. Select the applicable device and double click to open up the web viewer. You can also manually enter the IP address in the address bar of the web browser.

When prompted, enter the user name and password of the device. Default user name is admin and password is 1234. After logging in, follow directions to install applicable plug-ins for viewing video.

## 3. Live View

The window below will be shown after logging in.



The following table describes the buttons on the live view interface.

Function	Button	Description
Stream	Dropdown menu	Choose which stream to view
Video Size	Fixed	Scales the video to fit in the browser window
Video Size	Original	Shows the video in the original resolution
Record Video	Start	Starts manual recording of video to PC. Files are saved as AVI. Once started, the device will record continuously until stopped.
Record Video	Stop	Stops recording of video
Zoom	Zoom +	Zoom in control for models with motorized lens
Zoom	Zoom -	Zoom out control for models with motorized lens
Focus	Focus + / Focus -	Manual focus adjustment control
Audio	Mic	Enables microphone input for live view on browser
Audio	Speaker	Enables speaker output on camera for live view on browser

## 4. Camera Configuration

Press the "Setup" button to go to the configuration interface. **Note:** Wherever applicable, press the "Save" button to save the settings.

## 4.1 System

## 4.1.1 Upgrade

In the "System" interface, click on Upgrade to update the firmware of the device.

Navigate to the directory where the file is located and select it. Click on "Upgrade" at the bottom of the page to start the firmware update. Make sure to not close the browser window until the update has completed. Firmware files can be downloaded on the <u>Speco website</u>.

<b>Camera Configuration</b>	
speco technologies	▼ Upgrade
<ul> <li>Basic Setup</li> </ul>	
<ul> <li>Network Setup</li> </ul>	
<ul> <li>Event Setup</li> </ul>	Current Version : 1.0.2.3 20190719
<ul> <li>User Admin</li> </ul>	Selected File : 찾아보기
▼ System	
Upgrade System Restart Factory Default Export / Import Date / Time System Log System Information	© UPGRADE
Live	

### 4.1.2 System Restart

The device can be restarted here.

Camera Configuration	
speco technologies	▼ System Restart
Basic Setup     Network Setup	System will be restarted for several minutes
Event Setup     User Admin	© RESTART
✓ System	
Upgrade System Restart Factory Default Export / Import Date / Time System Log System Information	
Live	

## 4.1.3 Factory Default

If the device needs to be factory reset for any reason, it can be done here. Be aware that this procedure will erase all settings that were changed and saved in the device and restore them to a factory default state. If restoring settings after a factory reset is desired, make sure to back up the settings using the "Export" function before the factory reset procedure.

Camera Configuration	
speco technologies	Factory Default
Basic Setup	All your settings will be erased upon clicking "factory default" If you want to backup current settings. Please click
<ul> <li>Network Setup</li> </ul>	"Export" for backup your current settings
Event Setup     User Admin	® DEFAULT
▼ System	1
Upgrade System Restart Factory Defaalt Export / Import Date / Time System Log System Information	
Live	

### 4.1.4 Export / Import

### Export

Click the button to download the current system settings as a configuration file on the local PC.

peco technologies	* Export	
Basic Setup Network Setup Event Setup User Admin	Make Setup File On Click button => DownLoad Export Setup File	* Download Sctup File
System	> Import	
Upgrade System Restart Factory Default <b>Export / Import</b> Date / Time System Log System Information		
Live		

#### Import

Updates the device with settings that were saved with the Export function. This is useful after a factory reset. Browse to the directory where the configuration file was saved, select it, and click "Upload File".

<b>Camera Configuration</b>			
speco technologies	+ Export		
• Basic Setup	Timport		
Network Setup			
Event Setup	File:	Browse	@ UPLOAD FILE
) User Admin	* Browse & find above file and click "	upload file" button	
- System			
Upprade System Restart Factory Default <b>Export / Import</b> Dete / Time System Log System Information			
Live			

## 4.1.5 Date / Time

#### Time Zone

Select the appropriate time zone of the location of the device. The system time will update automatically if the device is connected to the internet.

#### **Setup Time**

If the device is not updating the time automatically for some reason, the time can be adjusted manually. Click the checkbox and change the time accordingly.

Camera Configuration									
speco technologies	▼ Date / Time								
<ul> <li>Basic Setup</li> </ul>									
Network Setup	Time Zone	GMT-		America/Ne				~	
Event Setup			Timezone Uses Daylight Saving Time						
<ul> <li>User Admin</li> </ul>				Year	Month	Day	Hour	Min	Sec
	Setup Time (Manual Setting	) Only)	Ц	2018 🗸	01 🗸	17 🗸	09 🗸	14 🗸	34 🗸
Upgrade System Restart Pictory Default Export / Import Date / Time System Log System Information	a SAVE								
Live									

## 4.1.6 System Log

System log provides information on actions that were performed on the device such as providing the IP address of a PC that logged in to the device along with the date and time. Select the desired category to view and specify the start and end times to display the logs. Then click on "Search Logs" to retrieve the logs.

Camera Configuration	
speco technologies	▼ System Logs
<ul> <li>Basic Setup</li> </ul>	
<ul> <li>Network Setup</li> </ul>	Category: All V Start Time: 2018 V - 01 V - 16 V 23 V : 17 V : 19 V Sort By: NEWEST V
Event Setup	End Time: 2018 V - 01 V - 17 V 23 V : 17 V : 19 V MAX: 1000 V
<ul> <li>User Admin</li> </ul>	[2018-01-17 22:34:12] Network: RTSP ipaddress => 192.168.56.144 disconnected
▼ System	[2018-01-17.22:23:43] Auth: admin is logged in [2018-01-17.22:23:43] Auth: admin is logged in [2018-01-17.22:23:43] Auth: admin is logged in
Upgrade System Restart Factory Default Export / Import Date / Time <b>System Ing</b> System Information	[2019-01-12 22:23142] Authri admin is legged in [2019-01-12 22:23142] Authri admin is legged in [2019-01-12 20:3142] Authri admin is legged in [2019-01-17 00:27:27] Authri admin is legged in [2019-01-17 00:27:27] Authri admin is legged in [2019-01-17 00:27:27] Authri admin is legged in [2019-01-17 00:27:20] Authri admin is
Live	Delete All

## 4.1.7 System Information

### **System Information**

Provides information such as the current firmware version of the device and the model number. The device nickname can also be set up here. HTTP API Authentication and WSSE Authentication are used for 3rd party integration purposes and can remain disabled unless specifically needed.

Camera Configuration		
speco technologies	▼ System Information	
▶ Basic Setup	Firmware Version	
Network Setup		1.0.1.2 20170302
Event Setup	Model Type	C3FD8M
<ul> <li>User Admin</li> </ul>	Language	English
	HTTP API Authentication	Disable
Upgrade	WSSE Authentication	Disable
System Restart	Camera Name	03FD8M
Factory Default Export / Import Date / Time System Log <b>System Information</b>	Network Information     SAVE	
Live		

## **Network Information**

Provides network information of the device such as IP address and Mac address.

Camera Configuration			
Speco technologies     Basic Setup     Network Setup     Event Setup	System Information     Network Information     IP Type	DHCP	
User Admin     System	IP Address Subnet Mask	192.168.56.131 255.255.255.0	
Upgrade System Restart Factory Default Export / Import Date / Time System Log System Information	MAC Address	192.168.56.1 00:26:e6:03:e1:21	
Live			

## 4.2 Basic Setup

Basic Setup includes setup for video, audio, and image settings.

### 4.2.1 Video Setup

Resolution, frame rate, etc. can be adjusted in this section. Each setting can be adjusted per stream. There are 3 streams in total – one main stream and two sub streams.

eco technologies	<ul> <li>Main Stream Setting</li> </ul>		
lasic Setup	Codec	H.264	
<b>Video Setup</b> Image Setup	Resolution	2048x1536	
Display	Frame rate	30 ~	
	G.O.P	30 🗸	
	Bitrate mode	CBR 🗸	
	Bitrate	Low Normal High 6.0 Mbps	
	Profile	High Profile	
	Corridor View	OFF V	
letwork Setup			
vent Setup	- > Sub Stream 1 Setting		
Iser Admin	- Sub Stream 2 Setting		

**Codec:** For the main stream and sub stream 1, this is set to H.264. For sub stream 2, there is an option to choose between H.264 and MJPEG.

Resolution: Set the desired resolution for each stream from the drop down list.

Frame Rate: Set the desired frame rate for each stream from the drop down list. Range is from 1 fps to 30 fps.

**G.O.P:** Stands for "Group of Pictures". This determines how many frames are processed in between unique I-frames. For example, if the frame rate is set to 30 fps and the GOP value is set to 1, there would be 30 I-frames per second. I-frames contain much more data compared to P-frames or B-frames. The higher the GOP value, the higher the image quality will be. For decoding process considerations, GOP should be set to a value equal to or greater than the frame rate.

**Bitrate Mode:** Choose between CBR (constant) or VBR (variable). The bit rate used in video encoding has a direct impact on the video quality and the bandwidth used to stream video over the network. As opposed to constant bit rate (CBR), VBR files vary the amount of output data per time segment.VBR allows a higher bit rate (and therefore more storage space) to be allocated to the more complex segments of media files while less space is allocated to less complex segments. The bits available are used more flexibly to encode t he video data more accurately, with fewer bits used in less complex scenes and more bits used in complex scenes. CBR is the best option if the available bandwidth must be limited. **Bitrate:** Sets the target bitrate. The acceptable minimum bitrate is around 1 Mbps per megapixel. So a 1080p resolution (2MP) should be set to 2Mbps at a minimum.

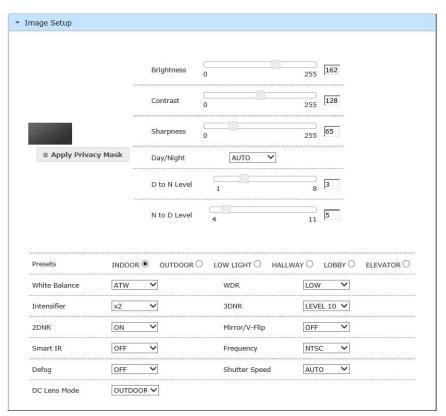
Profile: Select between Baseline, Main, or High profiles for H.264.

**Corridor View:** This changes the camera view from a landscape view to a portrait view. This mode is useful for looking down a narrow hallway for example.

### 4.2.2 Image Setup

Image settings such as brightness, contrast, white balance, etc can be set up here.

- 2MP (O2iBD3 /O2iB68 / O2iB68M/ O2iD8 /O2iD8M /O2B6M /O2iB50M /O2D6M /O2iD9 /O2iB9)



**Privacy Mask:** There are 8 zones that can be applied. Right click within the image window and choose which zones to apply under "Show". Once the zones are enabled, they can be moved around within the image and resized. After adjustment, click "Apply Privacy Mask" to apply the changes.

Brightness: Adjusts the brightness of the image. If set too high, it can have a white-out effect on the image.

**Contrast:** Adjusts the contrast of the image which is the difference between black and white (color differentiation). If set too high, bright scenes may look too bright.

Sharpness: Enhances edges for a sharper image perception. The higher the value, the less "soft" the image looks. However, if set too high, this introduces artifacts in the video.

Day/Night: Can be set to Auto, Color, or Monochrome. If FIT mode is on, then this mode will be set to auto.

**D** to N: Sets the threshold at which the image switches from color to monochrome. The higher the value, the more the camera tries to stay in color as ambient light level is reduced.

N to D: Sets the threshold at which the image switches from monochrome to color.

**Presets:** Presets adjust the WDR and Intensifier values automatically based the mode that's chosen. WDR and Intensifier can also be adjusted manually.

White Balance: It adjusts color settings to achieve consistent quality in the white areas and other colors of the image.

Intensifier: Brighter video in low light.

2DNR: Digital noise reduction. A 2D filter removes most graininess from images, moving objects can produce image blur trails.

Smart IR: Eliminate hotspots and underexposure in night-time image.

Defog: improve a cameras image performance in light foggy conditions.

DC Lens Mode: indoor / outdoor.

WDR: WDR(Wide Dynamic Range) enables a user to view the area more clearly even under backlight environment.

3DNR: Cuts off the noise of video. A 3D filter improves on the results of a 2D filter by eliminating motion blur, as well as image noise.

Mirror / V-Flip: Enables normal image to mirrored Image.

Frequency: NTSC / PAL

Shutter Speed: Adjust it according to the lightening conditions. Shutter speed is the value of the sensor exposure time.



	100		Brightness	0			255	160
			Contrast					
			Condust	0			255	135
			Sharpness					00
				0			255	80
			Luminance	0			255	0
			Day/Night	0	OLOR	•		
Presets	INDOOR ®	OUTDOOR O	LOW LIGHT O	HALLWAY	O LOI	звү 🔘	ELEVATO	R 🔍
Presets White Balance	INDOOR ®	OUTDOOR O	LOW LIGHT		D LOI	3BY 🔘	ELEVATO	r 🔍
		OUTDOOR O		[		•	ELEVATO	R 🔍
White Balance	ATW <b>v</b>		WDR	[	.OW	•	ELEVATO	R 🔍

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Luminance: Reference brightness adjustment.

Day/Night: Can be set to Auto, Color, or Monochrome. If FIT mode is on, then this mode will be set to auto.

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Defog: improve a cameras image performance in light foggy conditions.

#### - 3MP (O3FDP9 /O3FB56M /O3FB68 /O3FD8M)

nage Setup					
		Brightness	0	255 160	
		Contrast	0	255 130	
		Sharpness	0	255 80	I
# Apply Privad	y Mask	FIT	OFF V		
		Day/Night	AUTO V		
		D to N Level	1	8 3	1
		N to D Level	4	5	
Presets	INDOOR	• OUTDOOR C			BY O ELEVATOR C
White Balance	ATW	$\sim$	WDR	LOW	~
Intensifier	x2	$\checkmark$	3DNR	LEVEL 10	
2DNR	ON	~	Mirror/V-Flip	OFF	<b>v</b>
Smart IR	LEVEL 1		Frequency	NTSC	~
Defog	OFF	<u></u>	Shutter Speed	AUTO	<u>v</u>

**Privacy Mask:** There are 8 zones that can be applied. Right click within the image window and choose which zones to apply under "Show". Once the zones are enabled, they can be moved around within the image and resized. After adjustment, click "Apply Privacy Mask" to apply the changes.

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**FIT:** FIT stands for Flexible Intensifier® Technology. Using Speco's low-light technology called Intensifier, the camera stays in color even in low light, to produce a quality color image. As light level drops even further, the camera will adjust itself automatically to provide the mode that will produce the best image according to the scene. The available modes are: color, monochrome without IR, and monochrome with IR. **Day/Night:** Can be set to Auto, Color, or Monochrome. If FIT mode is on, then this mode will be set to auto.

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Mirror / V-Flip: Enables normal image to mirrored Image.

Frequency: NTSC / PAL

Shutter Speed: Adjust it according to the lightening conditions. Shutter speed is the value of the sensor exposure time.

## 4.2.3 Display

## Display

Enables an on-screen display on the video stream. **Position:** Static places the OSD on a predefined area in the image. Variable allows for a user-specified location. Size: Size of the font in the OSD.

Content Input: User-specified text. This can be used to display the nickname of the device.

peco technologies	+ Display	
Basic Setup	Enable	2
Image Setup Display	Position	Static  Variable  Top  Left  V
	Size	3 ~
	Text Color	White
	Background Color	None
	Content input	
	Transparency level	0 (0: 0% ~ 15: 93.75%)
letwork Setup		
event Setup Jser Admin	Date/Time Display	
lystem	IN SAVE	

## Date/Time Display

Enables an on-screen display of the date/time on the video stream.

Position: Static places the OSD on a predefined area in the image. Variable allows for a user-specified location. Size: Size of the font in the OSD.

Camera Configuration		
speco technologies	<ul> <li>Display</li> </ul>	
<ul> <li>Basic Setup</li> </ul>	<ul> <li>Date/Time Display</li> </ul>	
Video Setup Image Setup	Enable	Date _ Time _
Display	Position	Static  Variable  Static  Variable  Static  Variable  Va
	Size	3
	Text Color	White
	Date Format	YYYY/MN/DD V
	Time Format	12 Hour 🗸
Network Setup		
▹ Event Setup	© SAVE	
▶ User Admin		
→ System		
Live		

## 4.3 Network Setup

## 4.3.1 IP Address Setup

Sets the IP address, subnet mask, and gateway of the local network that the device is connected to. If the local network supports DHCP, the device can be set to DHCP mode and the network will assign an IP address to the device. The device is set to DHCP mode by default.

Camera Configuration	10		1
speco technologies	* IP Address Setup		
<ul> <li>Basic Setup</li> <li>Network Setup</li> </ul>	IP Туре	Static O DHCP 🖲	
IP Address Setup	IP Address		
DNS DDNS Client			11
NTP FTP	Default Gateway		
SMTP RTSP	# SAVE		
SNMP Port Setting			
IP Filter			

### 4.3.2 DNS

The DNS server addresses can be set up here. This does not have to be set up when using DHCP.

peco technologies	+ DNS		
Basic Setup			
Network Setup	First DNS	168.126.63.0	
IP Address Setup	Second DNS	168.126.63.2	
DNS			
DDNS Client	© SAVE		
NTP			
FTP			
SMTP			
RTSP			
SNMP			
Port Setting			
IP Filter			

## 4.3.3 DDNS Client

The device can be connected to Speco's DDNS server so that it can have a host name.

Camera Configuration			
speco technologies	▼ DDNS Client		
+ Basic Setup			
* Network Setup	DDNS Setting	Enable 🔾 Disable 🖲	
IP Address Setup	DDNS Server	specoddns.net V	
DNS	Host Name	SpecoVH-078ed4 .ddns.specoddns.net	
DDNS Client NTP FTP SMTP RTSP SMTP Port Setting ID Filter UPnP	© SAVE		
+ Event Setup			
<ul> <li>User Admin</li> </ul>			
+ System			
Livo			

Click "Enable" to enable DDNS mode.

Enter a hostname for the device. The default name that's provided has the last 6 digits of the Mac address as part of the name. If the name is found to be unique, it will be registered successfully on the DDNS server.

#### 4.3.4 NTP

The device can configure the date and time automatically via an NTP (network time protocol) server if it is connected to the internet. The host name is "pool.ntp.org" by default. Other NTP servers can be entered manually. The Date / Time section under System Setup uses this NTP server to update the time when the time zone is selected.

speco technologies	* NTP		
Basic Setup	NTP Setting	Enable O Disabl	ie 🖲
Network Setup			_
IP Address Setup	Host Name	pool.ntp.org	
DNS	Update Period	1	(Haur)
DDNS Client			
NTP	© SAVE		
FTP	1		
SMTP			
RTSP			
RTSP			
RTSP SNMP Port Setting			
RTSP SNMP			
RTSP SNMP Port Setting IP Filter			
RTSP SNMP Port Setting IP Filter UPnP	_		

#### 4.3.5 FTP

An FTP server can be used to store images for events. Enter the FTP server address, user ID, account password, and the port of the FTP server. Then enter the file name prefix and the file storage location on the server. For the file name, the date and time will be appended to the prefix.

Camera Configuration			
speco technologies	· FTP		
+ Basic Setup			
<ul> <li>Network Setup</li> </ul>	Server Address		
IP Address Setup	ID		
DNS DDNS Client	PASSWORD		
NTP	Port	2121	
FTP SMTP	File Name	FTPtest *Date/Time will be appended to the file name	
RTSP SNMP	Save Location	FTPtest	
Port Setting IP Filter UPnP	* SAVE		
+ Event Setup			
<ul> <li>User Admin</li> </ul>			
+ System			
Live			

## 4.3.6 SMTP

Emails can be sent with images when events occur. For the SMTP server setting, enter the information of the outgoing mail server. For common email services such as Gmail or Yahoo Mail, please check the SMTP settings for those services first and then enter them here. For SMTP Account Setting, enter the sender's email address and up to 5 emails addresses for the receiver.

SMTP Server Setting	
Server Address	
ID	
PASSWORD	
Port	0
Use SSL-TLS/STARTTLS	NO      SSL O TLS/STARTTLS O
Auth Mode	Login 🖲
SMTP Account Setting	
From :	
From :	
1. To :	
1. To :	

### 4.3.7 RTSP

RTSP stands for Real Time Streaming Protocol and is used by various clients to stream the video from the device. Examples of clients are Speco's NVRs and SecureGuard® VMS. Other than changing the RTSP port (default is 554), the other options are advanced and do not need to be changed from the default settings for most applications.

peco technologies	* RTSP	
Basic Setup     Network Setup	RTSP Port 554	
IP Address Setup DNS	Streaming Type Unicast  Multicast	
DDNS Client NTP	Check Keep-Alive Enable  Disable	
FTP SMTP	Check Cycle : 1 Min(1~60)	
RTSP SNMP	HTTP Tunnel Port 8000	
Port Setting IP Filter UPnP	HTTPS Tunnel Enable O Disable 🖲	
Event Setup	BackChannel Audio Type u-law 🖲 a-law 🔿	
User Admin System	© SAVE	

## 4.3.8 SNMP

To get camera status, parameters and alarm information and remotely manage the camera, the SNMP function can be used.

- Before using SNMP, please install an SNMP management tool and set the parameters of SNMP, such as SNMP port, trap address.
- 1. Go to the SNMP section.
- 2. Select the corresponding version (SNMPv1/SNMPv2c or SNMPv3) according to the version of the SNMP software that will be used.
- Set the values for "Read SNMP Community", "Write SNMP Community", "Trap Address", "Trap Port" and so on. Please make sure the settings are the same as that of the SNMP software.

NMP V3		
nable		
NMP Port	161	
lead		
Security Name	public	
Authentication Type	MD5 V	
Authentication Password		an again a she can be and a
Encryption Type	No Enc 💙	
Encryption Password		
Vrite		
Security Name	private	
Authentication Type	MD5 V	
Authentication Password		an construction of the bodies.
Encryption Type	DES V	
Encryption Password		

## 4.3.9 Port Setting

Set up the ports that are used to access different camera functions.

Camera Configuration				
speco technologies	✓ Port Setting			
Basic Setup				
* Network Setup	AV Stream Port	2700		
IP Address Setup	Event Port	2300		
DNS	Upgrade Port	9300		
DDNS Client NTP	HTTP Port	80		
FTP SMTP	HTTPS Port	443		
SMIP RTSP SNMP Port Setting IP Filter UPnP	© SAVE			
Event Setup				
<ul> <li>User Admin</li> </ul>				
<ul> <li>System</li> </ul>				
Live				

## 4.3.10 IP Filter

IP filtering can be used to provide access or deny access to a specific set of IP addresses.

- 1. Select Enable and the select either "All Accept" or "All Drop".
- 2. If All Drops is selected, then nobody can access the device except for a specified list of IP addresses and vice versa for All Accept.
- 3. Specify the range of IP addresses under "Rule" and click Add to add the IP addresses to the list.
- 4. Up to 100 IP addresses can be listed.

speco technologies	▼ IP Filter		
Basic Setup			
<ul> <li>Network Setup</li> </ul>	Enable	□ (All Accept ● All Drop ○)	
IP Address Setup	Policy	Accept O Drop 🖲	
DNS DDNS Client	Rule:	~ <b>Y</b> © ADD © DELETE © 0	CLEAR
NTP	ex)	) 192.168.10.10, 192.168.10.10 ~ 20	IP Count 0/100
SMTP			
RTSP			
RTSP SNMP Port Setting			
SNMP			
SNMP Port Setting IP Filter			
SNMP Port Setting IP Filter UPnP	© SAVE		

## 4.3.11 UPnP

If this function is enabled, the device will attempt to automatically open up ports on the local network and can be quickly accessed on the local network.

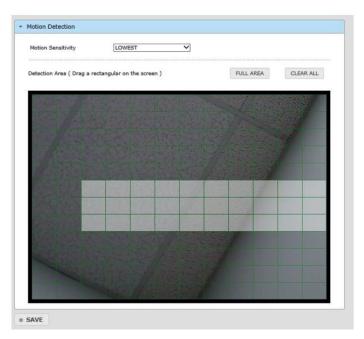
The UPnP friendly name can be entered.

Camera Configuration		
speco technologies	▼ UPnP	
<ul> <li>Basic Setup</li> </ul>		
* Network Setup	Port Forwarding	Enable O Disable 🖲
IP Address Setup	Friendly Name	O3FB68-047609
DNS DDNS Client	a SAVE	
NTP		
FTP		
SMTP		
RTSP		
SNMP		
Port Setting IP Filter		
UPnP		
OPHP		
Event Setup		
<ul> <li>User Admin</li> </ul>		
▹ System		
Live		

## 4.4 Event Setup

## 4.4.1 Motion Detection

Motion detection zone and sensitivity can be set up in this section.



- 1. Set the sensitivity of motion detection for the zone. Higher sensitivity means that motion alarms will be triggered more easily.
- 2. Click and drag the desired zone in the window. The defined zone will be highlighted.

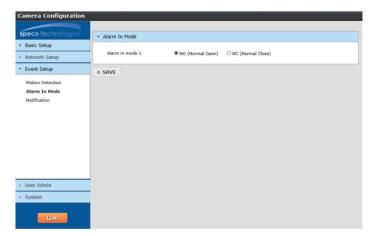
### 4.4.2 Tampering Alarm

The device can detect tampering such as a global scene change and out of focus.

<b>Camera Configuration</b>			
speco technologies	▼ Tampering Alarm		
Basic Setup     Network Setup     Event Setup	Usage Sensitivity	Enable  Disable  MID  V	
Motion Detection Tampering Alarm Notification	© SAVE		
→ User Admin			
▶ System			
Live			

## 4.4.3 Alarm in Mode

For devices with a sensor input, choose between Normally open or Normally closed.



#### 4.4.4 Notification

This section is used to control how notifications are delivered for motion and tampering alarm events.

Email: Choose the event type. Interval time defines how often the email is sent out. Images of the event can be attached to the email if enabled.

Camera Configuration		
speco technologies	* E-MAIL	
Basic Setup     Network Setup	Event trigger	Motion 🗌 Tampering 🗌
<ul> <li>Event Setup</li> </ul>	Interval Time	5 Sec
Motion Detection Tampering Alarm Notification	Attach Images	Oyes €no
	+ FTP Upload	
	Event Viewer	
	© SAVE	
User Admin		
<ul> <li>System</li> </ul>		
Live		

FTP: Choose the event type. Interval time defines how often the alarm image is uploaded to FTP.

Camera Configuration		
speco technologies		
	▶ E-MAIL	
<ul> <li>Basic Setup</li> </ul>	▼ FTP Upload	
Network Setup		
* Event Setup	Event trigger	Alarm-in1 Motion Periodic Time
Notion Detection Alarm In Mode Notification	Interval Time	s Sec
	Event Viewer     SAVE	
▶ User Admin		
► System		
Live		

## 4.5 User Admin

## 4.5.1 Password Change

Change the password of the admin account.

Camera Configuration	
speco technologies	✓ Password Change
Basic Setup     Network Setup	Old Password
Event Setup	New Password
• User Admin	Confirm New Password
User Account	© CHANGE © RESET
> System	
Live	

### 4.5.2 User Account

Add or modify user accounts here.

Camera Configuration	and the first the star of the start from the first start and the sec	t na ait na air na air a r
speco technologies	▼ User Account	
Basic Setup     Network Setup	ID PASSWORD	
<ul> <li>Event Setup</li> <li>User Admin</li> </ul>		
Password Change User Account	ADD/MODIFY User List	
	admin user	
		DELETE
- Onter		
> System		
Live		

Enter the user ID of the account to be created or modified and enter the new password. To delete an account, click on the account to be deleted and click "Delete".

## Appendix

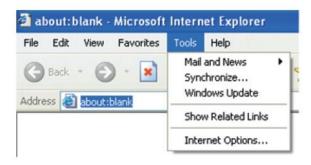
### **Appendix 1 Troubleshooting**

### IP Scanner does not show any device.

Make sure that the PC that's running IP Scanner is on the same local network as the devices.

#### Internet Explorer cannot download ActiveX control

- IE browser may be set up to block ActiveX. Follow the steps below.
  - 1. Open IE browser and then click Tools->Internet Options



- 2. Select Security and then Custom Level.
- 3. Enable all the options under "ActiveX controls and plug-ins".
- 4. Click OK to finish setup.

Internet Options	Security Settings
General Security Privacy Content Connections Programs Advanced	Settings:
Select a Web content zone to specify its security settings.	Enable     Download signed ActiveX controls     Disable     Enable     Prompt     Download unsigned ActiveX controls
Internet This sone cortains all Web sites you haven't placed in other zones Securty level for this zone	Disable     Disable     Prable     Prompt     Initialize and script ActiveX controls not marked as safe     Disable     Disable
Custom Custom settings. - To change the settings, click Custom Level - To use the recommended settings, click Default Level. Custom Level	Reset to: Medum Reset
DK Cancel Apply	OK Cancel

#### No sound can be heard.

- 1. Audio input device is not connected. Please connect and try again.
- 2. Audio function is not enabled at the corresponding channel. Please enable this function.