



speco technologies O3FDP9 IP Camera User Manual

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IP Camera User Manual
O3FDP9 / O3FB56M / O3FB68 / O3FD8M
O2iBD3 / O2iBD4 / O2iB68 / O2iB68M /
O2iD8 / O2iD8M O2B6M / O2iB50M / O2D6M /
O2iD9 / O2iB9

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

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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

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

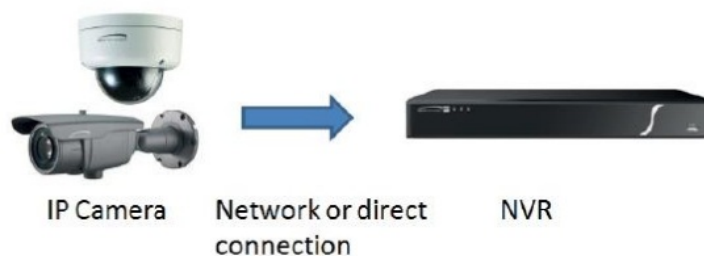
Introduction

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



Web Access and Login

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

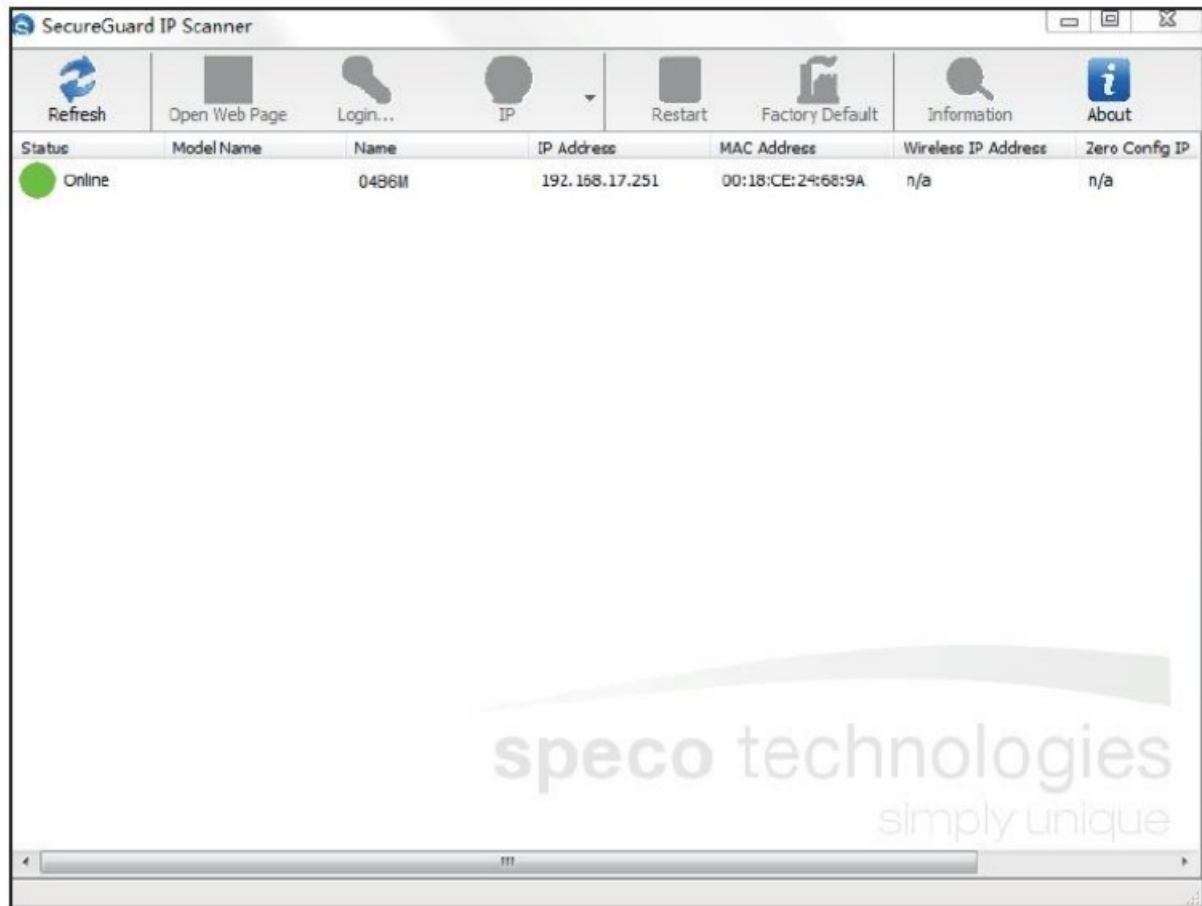
2.1 LAN

- Access through IP Scanner

Network connection:



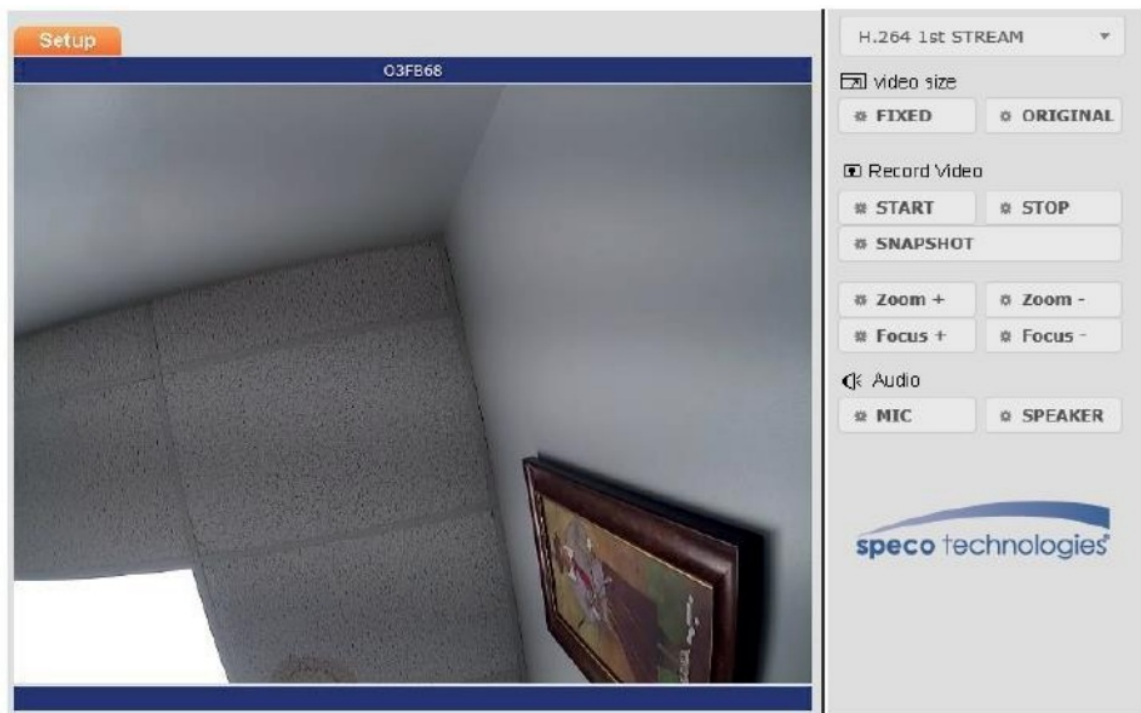
- ① Make sure that the camera and the PC are connected on the same local network. The camera is set to DHCP by default and will be assigned an IP address by the DHCP server. Make sure that the local network has a DHCP server. Routers typically have a DHCP server built in.
- ② Install IP Scanner from 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.

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

Camera Configuration

Press the “Setup” button to go to the configuration interface.

Note: Wherever applicable, press the “Save” button to save the settings.

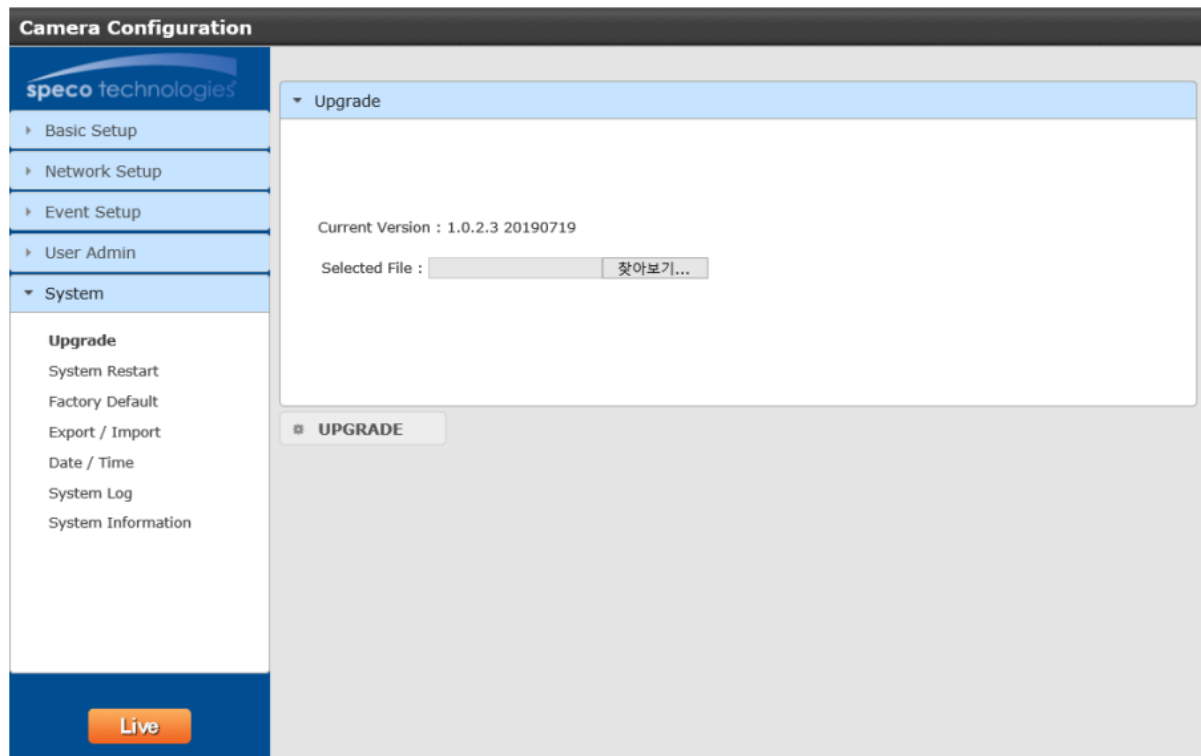
4.1 System

4.1.1 Upgrade

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

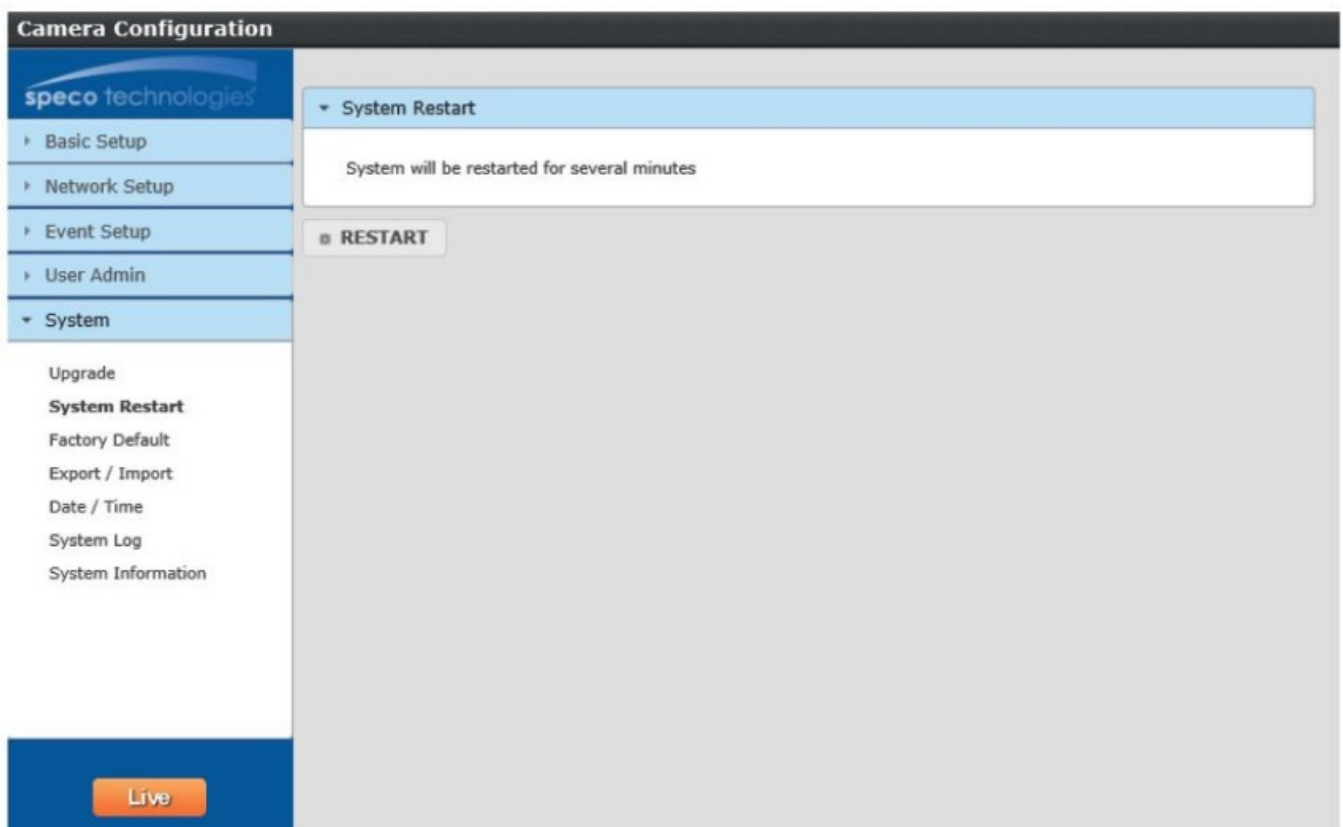
Navigate to the directory where the file is located and select it. Click on “Upgrade” at the bottom of the page to start the firmware update.

Make sure to not close the browser window until the update has completed. Firmware files can be downloaded on the Speco website.



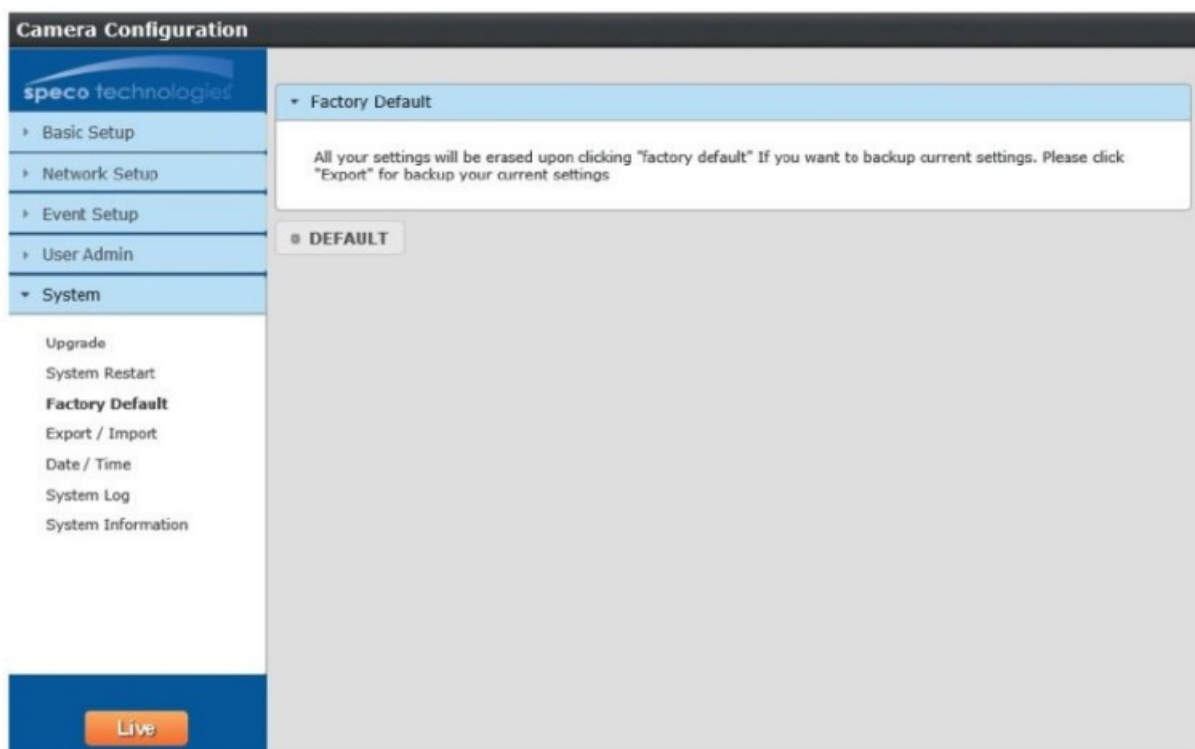
4.1.2 System Restart

The device can be restarted here.



4.1.3 Factory Default

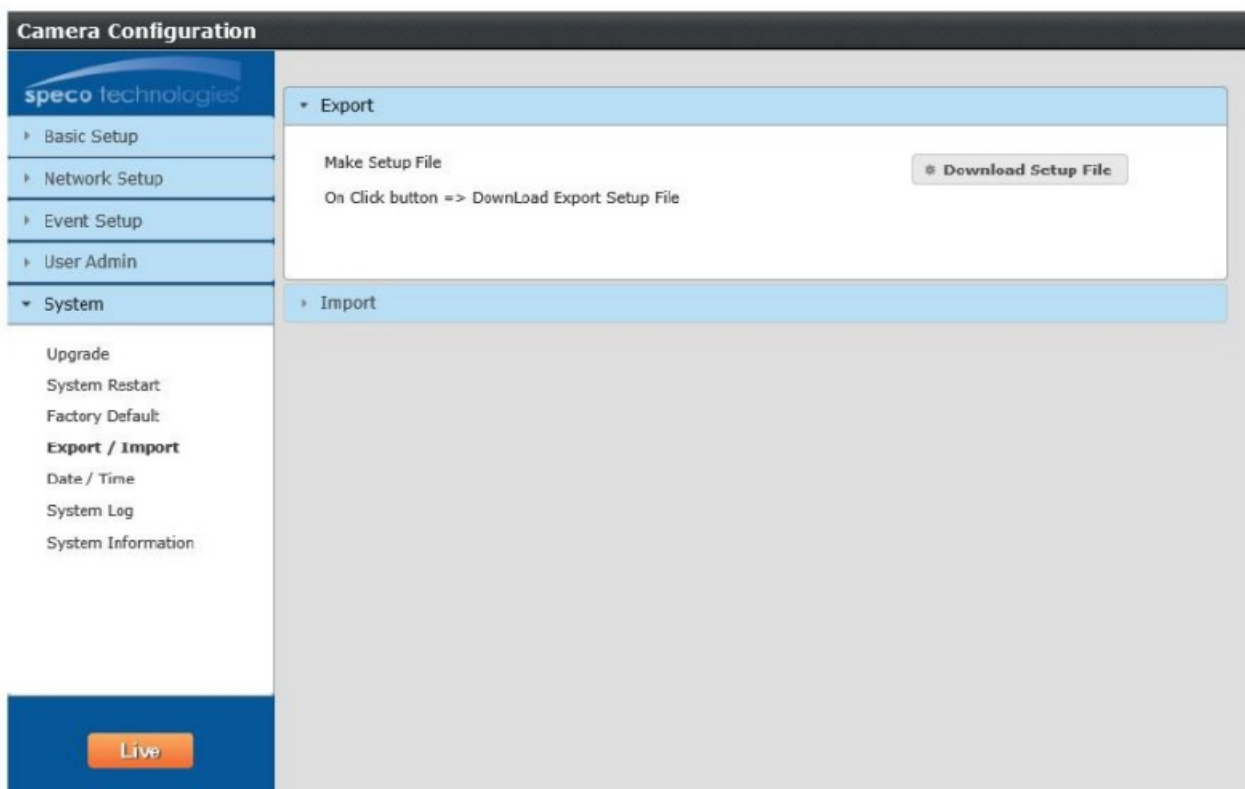
If the device needs to be factory reset for any reason, it can be done here. Be aware that this procedure will erase all settings that were changed and saved in the device and restore them to a factory default state. If restoring settings after a factory reset is desired, make sure to back up the settings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



4.1.4 Export / Import

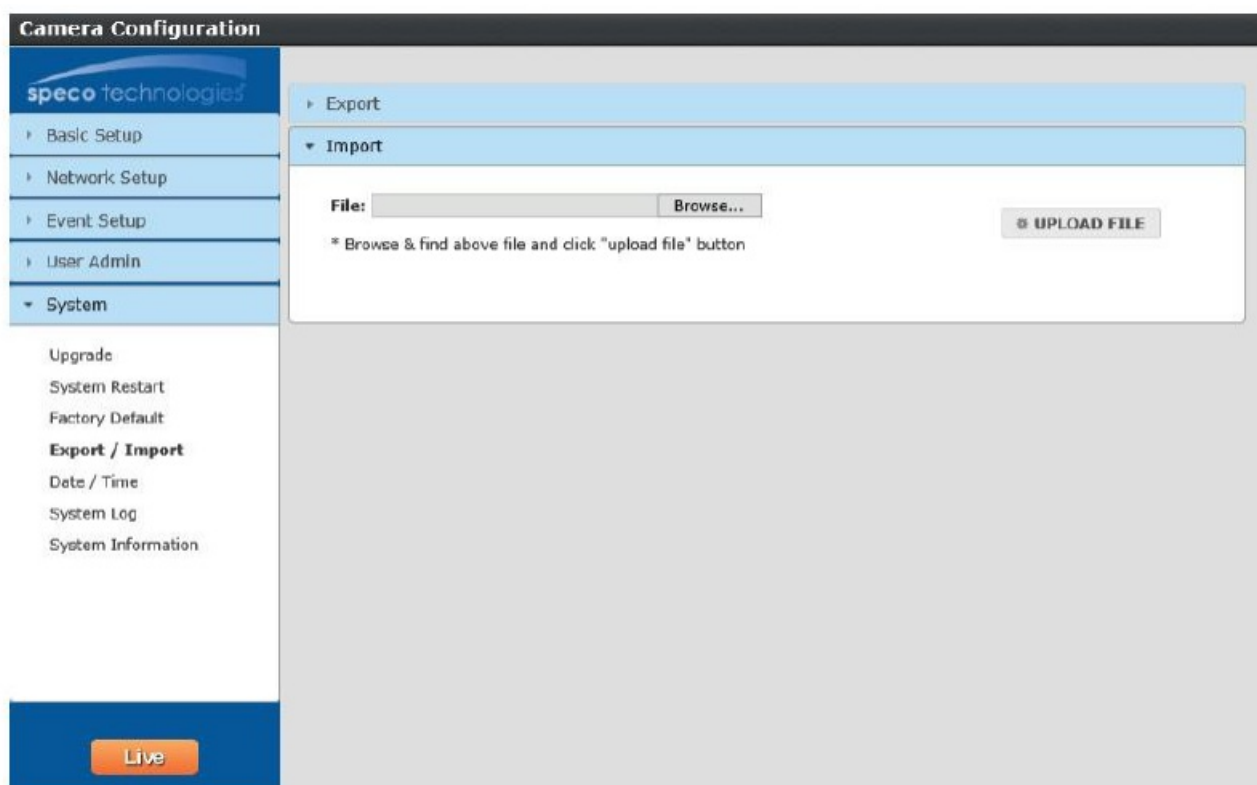
Export

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



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”.



The screenshot displays the 'Camera Configuration' web interface. On the left is a sidebar with the 'speco technologies' logo and a menu containing 'Basic Setup', 'Network Setup', 'Event Setup', 'User Admin', and 'System'. The 'System' menu is expanded, showing options like 'Upgrade', 'System Restart', 'Factory Default', 'Export / Import' (which is highlighted), 'Date / Time', 'System Log', and 'System Information'. At the bottom of the sidebar is a 'Live' button. The main content area has a header with 'Export' and 'Import' tabs, with 'Import' being the active tab. Below the tabs, there is a 'File:' label, a text input field, and a 'Browse...' button. To the right of these is an 'UPLOAD FILE' button. Below the input field, a note states: '* Browse & find above file and click "upload file" button'.

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

Basic Setup
Network Setup
Event Setup
User Admin
System

Upgrade
System Restart
Factory Default
Export / Import
Date / Time
System Log
System Information

Live

Date / Time

Time Zone

GMT-5 America/New_York, US/Eastern

☐ Timezone Uses Daylight Saving Time

Setup Time (Manual Setting Only)

☐

Year

2018

Month

01

Day

17

Hour

09

Min

14

Sec

34

SAVE

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

Basic Setup
Network Setup
Event Setup
User Admin
System

Upgrade
System Restart
Factory Default
Export / Import
Date / Time
System Log
System Information

Live

System Logs

Category:

All

Start Time:

2018

-

01

-

16

:

23

:

17

:

19

End Time:

2018

-

01

-

17

:

23

:

17

:

19

SEARCH LOGS

Sort By: NEWEST

MAX: 1000

[2018-01-17 22:34:12] Network: RTSP ipaddress => 192.168.56.144 disconnected

[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

[2018-01-17 22:23:42] Auth: admin is logged in

[2018-01-17 22:23:42] Network: RTSP ipaddress => 192.168.56.144 connected

[2018-01-17 09:14:34] System: Date Time Change from 805910447/943798324/825231664 808464432:808464393:8121

[2018-01-17 05:27:27] Network: RTSP ipaddress => 192.168.56.144 disconnected

[2018-01-17 05:27:20] Auth: admin is logged in

[2018-01-17 05:27:20] Auth: admin is logged in

[2018-01-17 05:27:20] Auth: admin is logged in

[2018-01-17 05:27:19] Network: RTSP ipaddress => 192.168.56.144 connected

[2018-01-17 05:26:59] Network: RTSP ipaddress => 192.168.56.144 disconnected

[2018-01-17 05:25:05] Auth: admin is logged in

[2018-01-17 05:25:05] Auth: admin is logged in

[2018-01-17 05:25:05] Auth: admin is logged in

[2018-01-17 05:25:04] Network: RTSP ipaddress => 192.168.56.144 connected

[2018-01-17 05:20:01] System: System start

[2018-01-17 05:19:58] System: Network is connected

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.

The screenshot shows the 'Camera Configuration' web interface. On the left is a sidebar with the 'speco technologies' logo and a menu with options: Basic Setup, Network Setup, Event Setup, User Admin, System (selected), Upgrade, System Restart, Factory Default, Export / Import, Date / Time, System Log, and System Information. The main content area has a 'System Information' tab selected, displaying the following fields: Firmware Version (1.0.1.2 20170302), Model Type (O3FD8M), Language (English), HTTP API Authentication (Disable), WSSE Authentication (Disable), and Camera Name (O3FD8M). A 'SAVE' button is located below the fields. At the bottom of the sidebar is a 'Live' button.

System Information	
Firmware Version	1.0.1.2 20170302
Model Type	O3FD8M
Language	English
HTTP API Authentication	Disable
WSSE Authentication	Disable
Camera Name	O3FD8M

Network Information

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

The screenshot shows the 'Camera Configuration' web interface with the 'Network Information' tab selected. The sidebar is identical to the previous screenshot. The main content area displays the following network settings: IP Type (DHCP), IP Address (192.168.56.131), Subnet Mask (255.255.255.0), Default Gateway (192.168.56.1), and MAC Address (00:26:e6:03:e1:21). A 'SAVE' button is located below the fields. At the bottom of the sidebar is a 'Live' button.

Network Information	
IP Type	DHCP
IP Address	192.168.56.131
Subnet Mask	255.255.255.0
Default Gateway	192.168.56.1
MAC Address	00:26:e6:03:e1:21

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.

The screenshot displays the 'Camera Configuration' web interface for 'speco technologies'. The left sidebar contains a navigation menu with 'Basic Setup' selected, and sub-items for 'Video Setup', 'Image Setup', and 'Display'. Below this are links for 'Network Setup', 'Event Setup', 'User Admin', and 'System', along with a 'Live' button. The main content area is titled 'Main Stream Setting' and includes the following configuration options:

- Codec: H.264
- Resolution: 2048x1536
- Frame rate: 30
- G.O.P: 30
- Bitrate mode: CBR
- Bitrate: A slider set to 'Normal' with a value of 6.0 Mbps.
- Profile: High Profile
- Corridor View: OFF

Below the main settings are sections for 'Sub Stream 1 Setting' and 'Sub Stream 2 Setting', each with a 'SAVE' button at the bottom.

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 Pframes 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 the 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 (02iBD3 / 02iB68 / 02iB68M/ 02iD8 / 02iD8M / 02B6M / 02iB50M / 02D6M / 02iD9 / 02iB9)

Image Setup

Apply Privacy Mask

Brightness

0255

162

Contrast

0255

128

Sharpness

0255

65

Day/Night

AUTO

D to N Level

18

3

N to D Level

411

5

Presets

INDOOR

OUTDOOR

LOW LIGHT

HALLWAY

LOBBY

ELEVATOR

White Balance

ATW

WDR

LOW

Intensifier

x2

3DNR

LEVEL 10

2DNR

ON

Mirror/V-Flip

OFF

Smart IR

OFF

Frequency

NTSC

Defog

OFF

Shutter Speed

AUTO

DC Lens Mode

OUTDOOR

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.

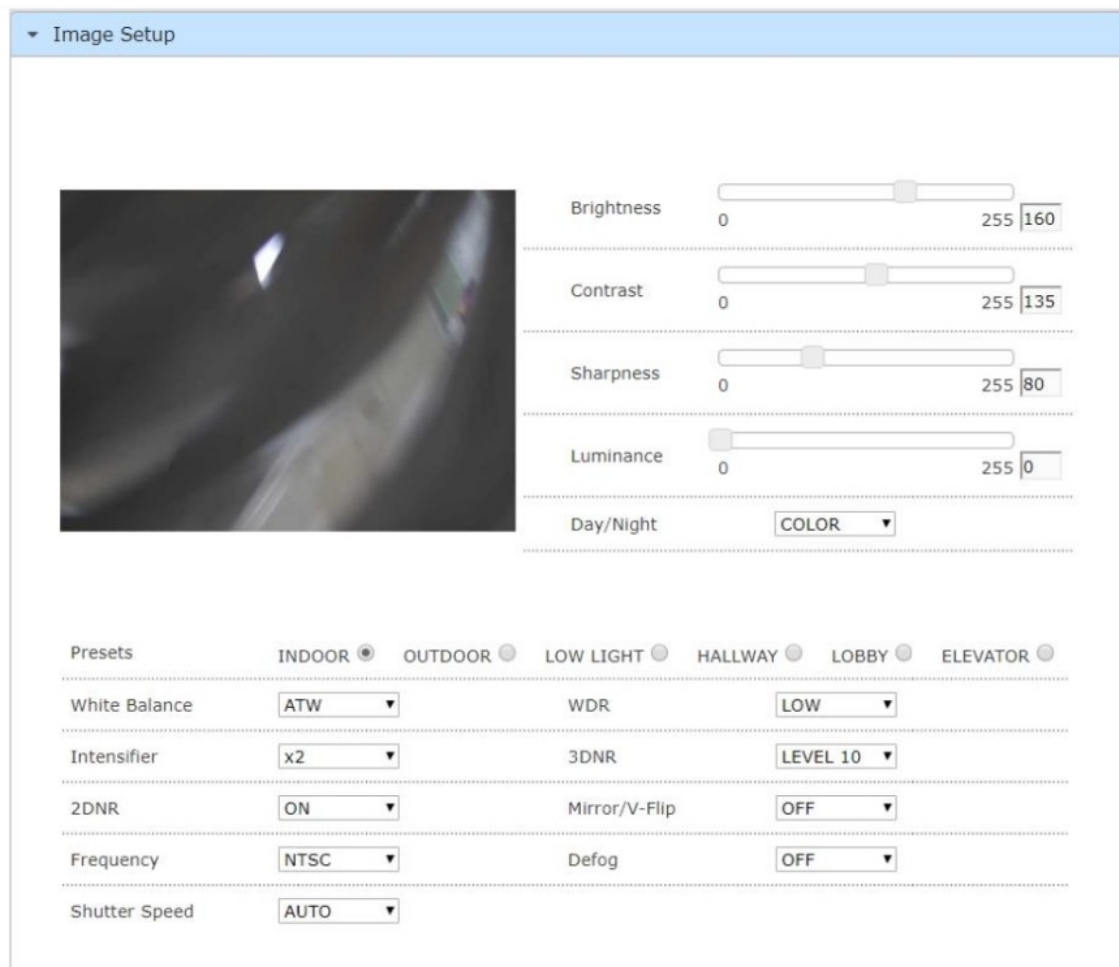
Mirror / V-Flip: Enables normal image to mirrored Image.

Frequency: NTSC / PAL

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

time.

– 2MP-F



The screenshot shows the 'Image Setup' menu. On the left is a live video feed of a dark scene with a bright light source. To the right of the feed are four sliders: Brightness (set to 160), Contrast (set to 135), Sharpness (set to 80), and Luminance (set to 0). Below these is a 'Day/Night' dropdown menu set to 'COLOR'. At the bottom, there are 'Presets' for INDOOR, OUTDOOR, LOW LIGHT, HALLWAY, LOBBY, and ELEVATOR. Below the presets are several dropdown menus: White Balance (ATW), WDR (LOW), Intensifier (x2), 3DNR (LEVEL 10), 2DNR (ON), Mirror/V-Flip (OFF), Frequency (NTSC), Defog (OFF), and Shutter Speed (AUTO).

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.

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.

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.

Frequency: NTSC / PAL

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

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.

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

– 3MP (O3FDP9 /O3FB56M /O3FB68 /O3FD8M)

Image Setup

Apply Privacy Mask

Brightness

0255

160

Contrast

0255

130

Sharpness

0255

80

FIT

OFF

Day/Night

AUTO

D to N Level

18

3

N to D Level

411

5

Presets

INDOOR

OUTDOOR

LOW LIGHT

HALLWAY

LOBBY

ELEVATOR

White Balance

ATW

WDR

LOW

Intensifier

x2

3DNR

LEVEL 10

2DNR

ON

Mirror/V-Flip

OFF

Smart IR

LEVEL 11

Frequency

NTSC

Defog

OFF

Shutter Speed

AUTO

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.

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.

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.

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.

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.

The screenshot shows the 'Camera Configuration' web interface for 'speco technologies'. The left sidebar contains a menu with 'Basic Setup' (selected), 'Video Setup', 'Image Setup', 'Display', 'Network Setup', 'Event Setup', 'User Admin', and 'System'. At the bottom of the sidebar is a 'Live' button. The main content area is titled 'Display' and contains the following settings:

- Enable:** A checkbox that is checked.
- Position:** Radio buttons for 'Static' (selected) and 'Variable'. Below are dropdown menus for 'Top' and 'Left'.
- Size:** A dropdown menu set to '3'.
- Text Color:** A dropdown menu set to 'White'.
- Background Color:** A dropdown menu set to 'None'.
- Content input:** An empty text input field.
- Transparency level:** A dropdown menu set to '0', with a note '(0: 0% ~ 15: 93.75%)'.

Below the 'Display' section is a 'Date/Time Display' section, which is currently collapsed. At the bottom of the configuration area is a 'SAVE' button.

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

- Basic Setup
 - Video Setup
 - Image Setup
 - Display**
- Network Setup
- Event Setup
- User Admin
- System

Display

Date/Time Display

Enable ☐ Date ☐ Time ☐

Position Static ☒ Variable ☐

Bottom Center

Size 3

Text Color White

Date Format YYYY/MM/DD

Time Format 12 Hour

SAVE

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

speco technologies

- Basic Setup
- Network Setup**
 - IP Address Setup**
 - DNS
 - DDNS Client
 - NTP
 - FTP
 - SMTP
 - RTSP
 - SNMP
 - Port Setting
 - IP Filter

IP Address Setup

IP Type Static ☐ DHCP ☒

IP Address

Subnet Mask

Default Gateway

SAVE

4.3.2 DNS

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

Camera Configuration

speco technologies

Basic Setup

Network Setup

- IP Address Setup
- DNS**
- DDNS Client
- NTP
- FTP
- SMTP
- RTSP
- SNMP
- Port Setting
- IP Filter

DNS

First DNS: 168.126.63.0

Second DNS: 168.126.63.2

SAVE

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

Basic Setup

Network Setup

- IP Address Setup
- DNS
- DDNS Client**
- NTP
- FTP
- SMTP
- RTSP
- SNMP
- Port Setting
- IP Filter
- UPnP

Event Setup

User Admin

System

Live

DDNS Client

DDNS Setting: Enable ☐ Disable ☒

DDNS Server: specoddns.net

Host Name: SpecoVH-078ed4 .ddns.specoddns.net

SAVE

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.

Camera Configuration

speco technologies

- Basic Setup
- Network Setup
 - IP Address Setup
 - DNS
 - DDNS Client
 - NTP**
 - FTP
 - SMTP
 - RTSP
 - SNMP
 - Port Setting
 - IP Filter
 - UPnP
- Event Setup
- User Admin
- System

Live

NTP

NTP Setting Enable ☐ Disable ☒

Host Name

Update Period (Hour)

SAVE

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

- Basic Setup
- Network Setup
 - IP Address Setup
 - DNS
 - DDNS Client
 - NTP
 - FTP**
 - SMTP
 - RTSP
 - SNMP
 - Port Setting
 - IP Filter
 - UPnP
- Event Setup
- User Admin
- System

Live

FTP

Server Address

ID

PASSWORD

Port

File Name
*Date/Time will be appended to the file name

Save Location

SAVE

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

SMTP Server Setting

Server Address

ID

PASSWORD

Port

0

Use SSL-TLS/STARTTLS

NO ☒ SSL ☐ TLS/STARTTLS ☐

Auth Mode

Login ☒

SMTP Account Setting

From :

1. To :

2. To :

3. To :

4. To :

5. To :

SAVE

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.

Camera Configuration

speco technologies

Basic Setup

Network Setup

IP Address Setup

DNS

DDNS Client

NTP

FTP

SMTP

RTSP

SNMP

Port Setting

IP Filter

UPnP

Event Setup

User Admin

System

Live

RTSP

RTSP Port

554

Streaming Type

Unicast ☒ Multicast ☐

Check Keep-Alive

Enable ☒ Disable ☐

Check Cycle :

1

Min(1~60)

HTTP Tunnel Port

8000

HTTPS Tunnel

Enable ☐ Disable ☒

BackChannel Audio Type

u-law ☒ a-law ☐

SAVE

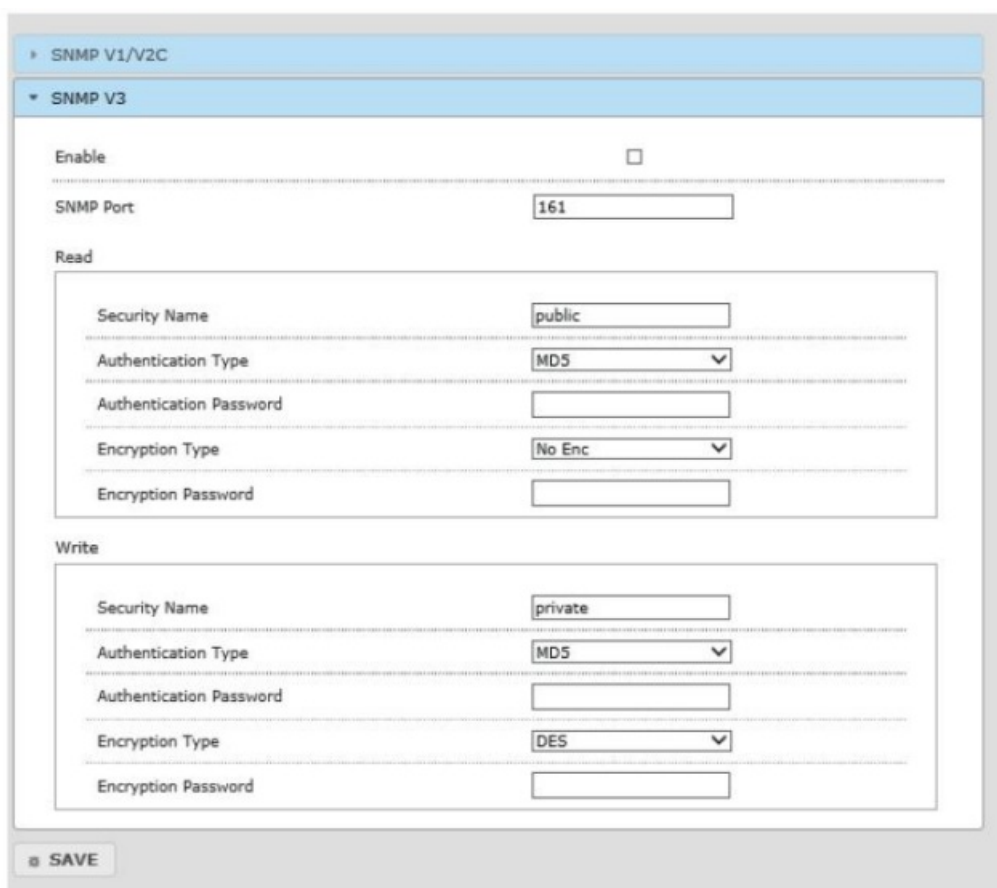
4.3.8 SNMP

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.
3. 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.



The image shows a web-based configuration interface for SNMP V3. At the top, there are two tabs: "SNMP V1/V2C" and "SNMP V3", with "SNMP V3" being the active tab. Below the tabs, there is an "Enable" checkbox which is currently unchecked. Underneath, the "SNMP Port" is set to "161". The interface is divided into two main sections: "Read" and "Write". Each section contains five fields: "Security Name", "Authentication Type", "Authentication Password", "Encryption Type", and "Encryption Password". In the "Read" section, "Security Name" is "public", "Authentication Type" is "MD5", "Encryption Type" is "No Enc", and the password fields are empty. In the "Write" section, "Security Name" is "private", "Authentication Type" is "MD5", "Encryption Type" is "DES", and the password fields are empty. At the bottom left, there is a "SAVE" button.

SNMP V1/V2C	
SNMP V3	
Enable	<input type="checkbox"/>
SNMP Port	161
Read	
Security Name	public
Authentication Type	MD5
Authentication Password	
Encryption Type	No Enc
Encryption Password	
Write	
Security Name	private
Authentication Type	MD5
Authentication Password	
Encryption Type	DES
Encryption Password	
SAVE	

4.3.9 Port Setting

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

The screenshot displays the 'Camera Configuration' web interface for 'speco technologies'. The left sidebar contains a navigation menu with the following items: 'Basic Setup', 'Network Setup' (expanded), 'IP Address Setup', 'DNS', 'DDNS Client', 'NTP', 'FTP', 'SMTP', 'RTSP', 'SNMP', 'Port Setting' (selected), 'IP Filter', 'UPnP', 'Event Setup', 'User Admin', and 'System'. At the bottom of the sidebar is a 'Live' button. The main content area is titled 'Port Setting' and contains a table of port configurations:

Port Name	Port Number
AV Stream Port	2700
Event Port	2300
Upgrade Port	9300
HTTP Port	80
HTTPS Port	443

Below the table is a 'SAVE' button.

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 then 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.

Camera Configuration

speco technologies

Basic Setup
Network Setup
IP Address Setup
DNS
DDNS Client
NTP
FTP
SMTP
RTSP
SNMP
Port Setting
IP Filter
UPnP
Event Setup
User Admin
System
Live

IP Filter

Enable

☐ (All Accept ☒ All Drop ☐)

Policy

Accept ☐ Drop ☒

Rule:

~

ADD

DELETE

CLEAR

ex) 192.168.10.10, 192.168.10.10 ~ 20

IP Count

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

Basic Setup
Network Setup
IP Address Setup
DNS
DDNS Client
NTP
FTP
SMTP
RTSP
SNMP
Port Setting
IP Filter
UPnP
Event Setup
User Admin
System
Live

UPnP

Port Forwarding

Enable ☐ Disable ☒

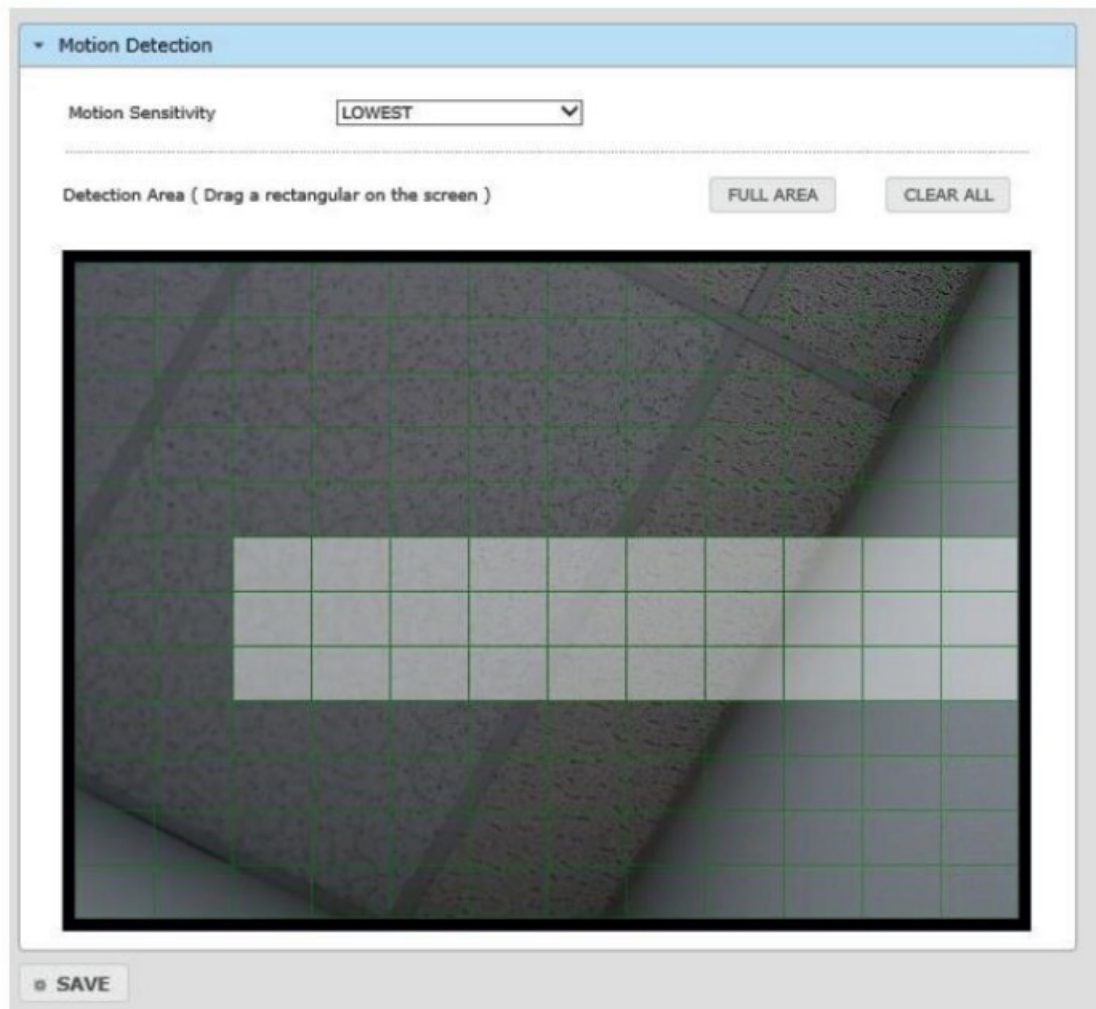
Friendly Name

SAVE

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.

The screenshot shows the 'Camera Configuration' web interface. On the left is a sidebar with the 'speco technologies' logo and a menu containing 'Basic Setup', 'Network Setup', 'Event Setup', 'Motion Detection', 'Tampering Alarm' (highlighted), and 'Notification'. Below the menu are 'User Admin' and 'System' links, and a 'Live' button. The main content area is titled 'Tampering Alarm' and contains two settings: 'Usage' with radio buttons for 'Enable' (selected) and 'Disable', and 'Sensitivity' with a dropdown menu set to 'MID'. A 'SAVE' button is located below these settings.

4.4.3 Alarm in Mode

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

This screenshot shows the 'Alarm In Mode' configuration page within the same interface. The sidebar menu is identical, but 'Alarm In Mode' is now highlighted. The main content area is titled 'Alarm In Mode' and features a setting for 'Alarm in mode 1' with two radio button options: 'NO (Normal Open)' (selected) and 'NC (Normal Close)'. A 'SAVE' button is positioned below the configuration options.

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

- Basic Setup
- Network Setup
- Event Setup
 - Motion Detection
 - Tampering Alarm
 - Notification**
- User Admin
- System

Live

E-MAIL

Event trigger: Motion ☐ Tampering ☐

Interval Time: Sec

Attach Images: ☐ YES ☒ NO

FTP Upload

Event Viewer

SAVE

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

Camera Configuration

speco technologies

- Basic Setup
- Network Setup
- Event Setup
 - Motion Detection
 - Alarm In Mode
 - Notification**
- User Admin
- System

Live

E-MAIL

FTP Upload

Event trigger: Alarm-in1 ☐ Motion ☐ Periodic Time ☐

Interval Time: Sec

Event Viewer

SAVE

4.5 User Admin

4.5.1 Password Change

Change the password of the admin account.

Camera Configuration

speco technologies

- Basic Setup
- Network Setup
- Event Setup
- User Admin**
 - Password Change**
 - User Account

System

Live

▼ Password Change

Old Password

New Password

Confirm New Password

CHANGE RESET

4.5.2 User Account

Add or modify user accounts here.

Camera Configuration

speco technologies

- Basic Setup
- Network Setup
- Event Setup
- User Admin**
 - Password Change
 - User Account**

System

Live

▼ User Account

ID

PASSWORD

CONFIRM PASSWORD

ADD/MODIFY

User List

admin user	DELETE
---------------	--------

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.




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.



Documents / Resources

	<p>speco technologies O3FDP9 IP Camera [pdf] User Manual</p> <p>O3FDP9 IP Camera, O3FDP9, IP Camera, Camera, O3FB56M, O3FB68, O3FD8M, O2iBD3, O2iBD4, O2iB68, O2iB68M, O2iD8, O2iD8M, O2B6M, O2iB50M, O2D6M, O2iD9, O2iB9</p>
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