

speco technologies OSW8T 8 Channel TV Analog Encoder **User Manual**

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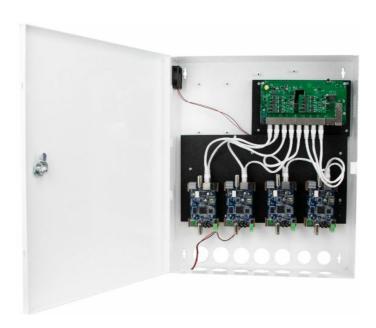


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speco technologies OSW8T 8 Channel TV Analog Encoder



Product Information

• Product Name: 8 Channel TV/Analog Encoder

Model: OSW8T

• User Manual: IP Camera User Manual

Important Safeguards and Warnings:

- Electrical safety: The product requires a certified/listed 12VDC Class 2 power supply. Connecting two power Sources simultaneously may result in device damage. The product must be grounded to reduce the risk of electric shock.
- 2. **Environment:** The product should not be exposed to heavy stress, violent vibration, water, direct sunlight, extreme temperatures, or electromagnetic radiation. Ventilation openings should not be blocked, and liquid intrusion should be avoided.
- 3. **Operation and Daily Maintenance:** Before performing any maintenance work, the device should be shut down and the power cable unplugged. The device can be cleaned with a dry soft cloth or a cloth dampened with a small quantity of neutral detergent if there is excessive dust. Grounding the product is recommended for enhanced reliability.

Warning: The installation and examination of the device should be carried out by qualified personnel. Unauthorized changes or modifications may void the warranty.

Statement: This guide is for reference purposes only. Product, manuals, and specifications are subject to modification without prior notice. Speco Technologies is not responsible for any loss caused by improper operation.

Regulatory Information:

FCC conditions: This device complies with part 15 of the FCC Rules. Operation is subject to certain conditions.

Product Usage Instructions

- 1. Ensure that you have a certified/listed 12VDC Class 2 power supply for the device.
- 2. Before installation, check the package contents to ensure that all components are included. If anything is broken or missing, contact your representative or Speco customer service immediately.
- 3. Follow local electrical safety codes when installing and operating the device.
- 4. Place the device in a cool, dry place away from direct sunlight and heat sources.
- 5. Avoid exposing the device and connected cameras to heavy stress, violent vibration, water, extreme temperatures, and electromagnetic radiation.
- 6. Ensure that ventilation openings are not blocked and prevent water and liquid intrusion into the camera and device.
- 7. For maintenance work, shut down the device and unplug the power cable. Clean the device using a dry soft cloth. If there is excessive dust, use a cloth dampened with a small quantity of neutral detergent, followed by a dry cloth.
- 8. Ground the product for enhanced reliability.
- 9. Only qualified personnel should perform installation, examination, and repair work on the device.
- 10. Avoid making unauthorized changes or modifications to the device to maintain warranty coverage.
- 11. Please refer to the IP Camera User Manual for more detailed instructions on operating the product.

Important Safeguards and Warnings

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.

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 device and the connected camera to electromagnetic radiation.
- · Do not block any ventilation openings.
- Do not allow water and liquid intrusion into the camera and the device.

Operation and Daily Maintenance

- Please shut down the device and then unplug the power cable before you begin any maintenance work.
- 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.
- The grounding holes of the product are recommended to be grounded to further enhance the reliability of the product.

Warning

- This device 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.

FCC conditions

- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
- · This device may not cause harmful interference
- This device must accept any interference received, including interference that may cause undesired operation.

FCC compliance

- This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

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 from the package.

Accessory Name	Amount
8-Channel Encoder Wall Mount Unit	1
Power Supply	1
CD	1

Introduction

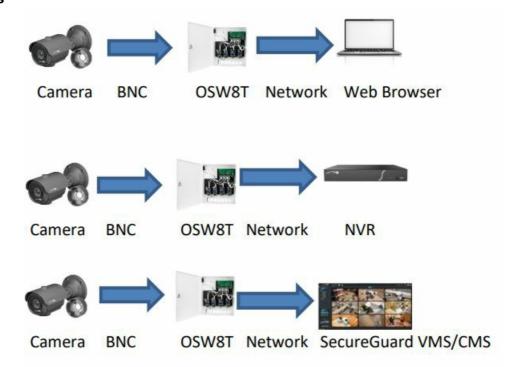
Welcome

- Thank you for purchasing this device!
- 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.

Main Features

- Built-in PoE (Power over Ethernet)
- Converts HD-TVI cameras (up to 2MP) and analog cameras to IP
- H.265 and H.264 compression
- 12V DC power output for powering cameras (max 500mA)
- UTC control support for accessing camera OSD menus and optical zoom/focus functions
- · Remote viewing support via web browser, mobile app, and VMS

Applications



Web Access and Login

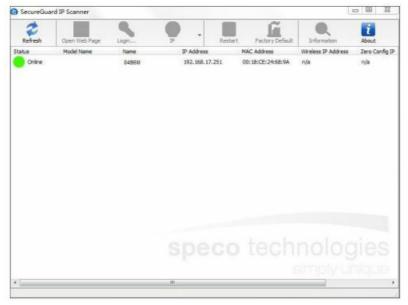
The device settings can be accessed via a web browser through the LAN.

LAN

Access through IP Scanner

1. Make sure that the device and the PC are connected on the same local network. The device 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 Speco IP devices 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.



• The login interface is shown above. The default user name is admin and the password is 1234. After logging in, follow the directions to install applicable plug-ins for viewing the video.

Live View

- The window below will be shown after logging in.
- **Note:** Make sure that a compatible camera is connected (HD-TVI up to 2MP and all analog cameras are supported).



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

Icon	Description	Icon	Description	
$[\times 1]$	Original size of resolution	\bigoplus	Digital zoom in	
	Fit (correct scale)		Digital zoom out	
	Auto (fill the window)		PTZ control (for external PTZ enclosures)	
	Full screen (show video only)		UTC control	
8	Start/stop live view	&	Abnormal color indicator	
	Start/stop two-way audio		Abnormal clarity indicator	
1	Enable/disable audio	#	Scene change indicator	
Ô	Snapshot	((0))	Sensor alarm indicator	
	Start/stop local recording	东	Motion alarm indicator	

- All indicator icons above will flash in the live view interface only when the corresponding events are enabled.
- In full-screen mode, to exit, double-click on the mouse or press the ESC key on the keyboard.
- To access the OSD of a camera, click on the UTC control button and press the button to open the OSD menu. Use the directional buttons to navigate the menu.



• A PTZ camera can be connected through the RS-485 interface. Click the PTZ icon to reveal the PTZ control panel. The descriptions of the control panel are as follows:

con	Description	Icon	Description	
	Move upper left direction	•	Move upper right direction	
A	Move up		Stop movement	
◀	Move left	•	Move right	
	Move lower left direction	4	Move lower right direction	
•	Move down		+ Speed adjustment	
**	Zoom out	*	Zoom in	
1	Focus -		Focus +	
0	Iris -	0	Iris +	
0	Auto scan		Wiper	
9	Light	>\$	Random scan	
8	Group scan	P-	Preset	

• Select preset and click to call the preset. Select and set the preset and then click to save the position of the preset. To delete a preset, select the preset and click to delete it.

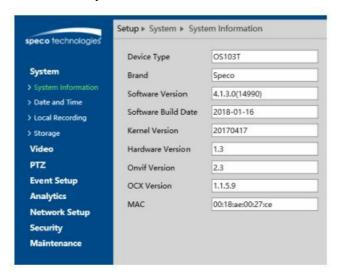
Device Configuration

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

System Configuration

System Information

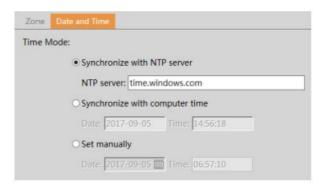
• In the "System Information" interface, the system information of the device is listed.



To set the time and date, go to System→Date and Time. Please refer to the following interface.



• Select the applicable time zone and enable/disable DST as needed. Click the "Date and Time" tab to set the time and date.



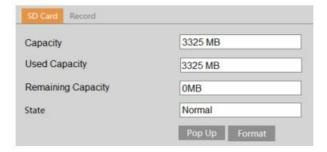
Local Recording

 Go to System→Local Recording to set up the storage path of captured images and recorded video on the local PC. There is also an option to enable or disable the bitrate display in the recorded files.



Storage

Go to System→Storage to go to the interface shown below.



- SD Card
 - When the card is used for the first time, click the "Format" button to format the SD card. All data on the card will be cleared by clicking this button. Click the "Eject" button to stop writing data to the SD card.
 Then the SD card can be ejected safely.
- Recording Settings
- 1. Go to the Record tab to go to the interface shown below.



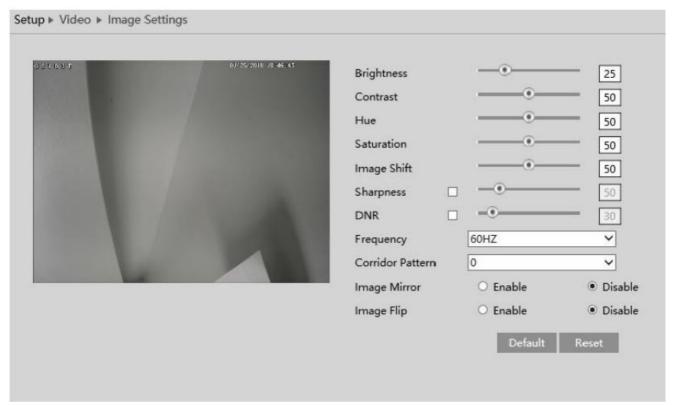
2. Set record stream and pre-record time.

Video Configuration

Video Configuration includes Image settings, Video/Audio Setup, OSD, Privacy Mask, and Region of Interest.

Image Configuration

• In the Image Settings interface shown below, various settings can be adjusted such as brightness, contrast, hue, saturation, etc.



- **Brightness:** Set the brightness level of the camera's image.
- Contrast: Set the color difference between the brightest and darkest parts.
- Hue: Set the total color degree of the image.
- Saturation: Set the degree of color purity. The purer the color, the brighter the image is.
- Image Shift: If there is a black edge in the image, change the value to eliminate the black edge.
- Sharpness: Set the resolution level of the image plane and the sharpness level of the image edge.
- DNR: Digital noise reduction.
- Frequency: Set to 60Hz (default for North America) or 50Hz.
- Corridor Pattern: Corridor viewing modes can be used for situations such as long hallways. 0, 90, 180, and 270 degrees are available. The default value is 0. The video resolution should be 1080p or below if you use

this function.

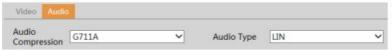
- Image Mirror: Turn the current video image horizontally.
- Image Flip: Turn the current video image vertically.

Video / Audio Setup

• Go to Video→Video/Audio Setup shown below. Resolution, frame rate, etc. can be adjusted in this section.



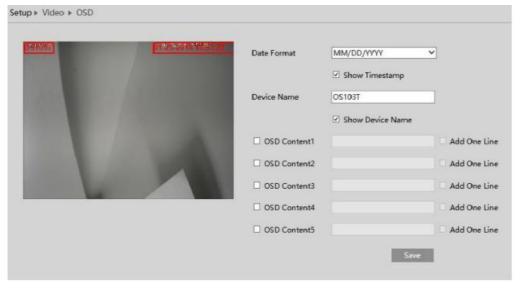
Click the "Audio" tab to go to the interface shown below.



- Three video streams can be adjusted. Note that available resolutions will be listed depending on the type of camera that's connected. For example, if an analog camera is connected, there will not be resolutions listed higher than D1 (704×480).
- Resolution: The size of the image.
- Frame rate: The higher the frame rate, the video is smoother.
- **Bitrate type:** Options are CBR (constant) and VBR (variable). Bitrate is related to the image quality. CBR means that no matter how much change is seen in the video scene, the compression bitrate will be kept constant. VBR means that the compression bitrate will be adjusted according to scene changes. For example, for scenes that do not have much movement, the bitrate will be kept at a lower value. This can help optimize the network bandwidth usage.
- Bitrate: This can be adjusted when the mode is set to CBR.
- The higher the bitrate, the better the image quality will be.
- Video Quality: Can be adjusted when the mode is set to VBR. The higher the image quality, the more bitrate will be required.
- GOP: Group of pictures. Determines how many frames are allowed between a "group of pictures". When a new scene begins in a video, until that scene ends, the entire group of frames (or pictures) can be considered a GOP. If there is not much movement in the scene, setting a GOP value higher than the frame rate is fine, potentially resulting in less bandwidth usage. However, if the value is set too high, and there is a high frequency of movement in the video, there is a risk of frame skipping.
- Video Compression: Choose between H.264 and H.265. If H.265 is chosen, make sure the client system is able to decode H.265.
- Profile: For H.264. Choose between baseline, main, and high profiles.
- **Send Snapshot:** How many snapshots to generate for an event?
- Watermark: When playing back the local recorded video in the search interface, the watermark can be displayed. To enable it, check the watermark box and enter the watermark text.
- Audio Encoding: G711A and G711U are selectable.
- Audio Type: MIC and LIN are selectable.

OSD Configuration

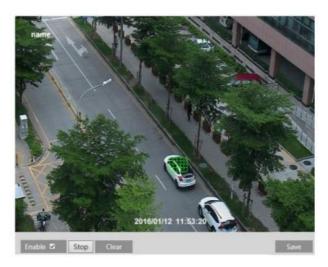
Go to the Video→OSD interface shown below.



• Set the time stamp, device name and OSD content here. After enabling the corresponding display and entering the content, drag them to change their position. Then click the "Save" button to save the settings.

Privacy Mask

• Go to the Video→Privacy Mask interface shown below. A maximum of 4 zones can be set up.



To set up privacy mask zones:

- 1. Click Enable.
- 2. Click the "Draw Area" button and then drag the mouse to draw the zones.
- 3. Click the "Save" button to save the settings.
- 4. Return to the live to verify that the zones that have been drawn are shown as blocked out in the image.



To clear the privacy mask zones:

• Click the "Clear" button to delete the zones.

Region of Interest Configuration

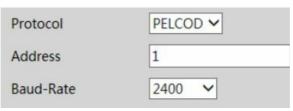
• Go to Video→Region of Interest. An area in the image can be set as a region of interest. This area will then have a higher bitrate than the rest of the image, resulting in better image quality for the identified area.



- 1. Click "Enable" and then click the "Draw Area" button.
- 2. Drag the mouse to set the zones.
- 3. Set the level.
- 4. Click the "Save" button to save the settings.

PTZ Configuration

 This function is only available to use with a connected PTZ camera. Go to the PTZ→Protocol interface shown below.

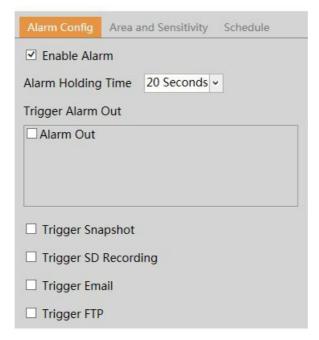


• Set the protocol, address, and baud rate corresponding to the PTZ camera.

Event Setup

Motion Detection

Go to Event Setup→Motion Detection to set up motion detection.



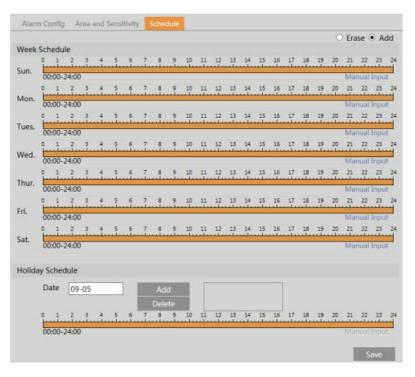
- 1. Check "Enable Alarm" to activate motion based alarms. If unchecked, the device will not send out any signals to trigger motion-based recording to the NVR or the VMS, even if there is motion in the video.
 - 1. **Alarm Out:** If selected, this would trigger an external relay output that's connected to the device on detecting a motion based alarm.
 - 2. **Trigger Snapshot:** If selected, the system will capture images on motion detection and save the images on an SD card (this function is only available for the models with a micro SD slot).
 - 3. **Trigger SD Recording:** If selected, the video will be recorded on an SD card on motion detection (this function is only available for the models with a micro SD slot).
 - 4. **Trigger Email:** If "Trigger Email" and "Attach Picture" are checked (email address must be set first in the Email setup interface under Network Setup), the captured images will be sent to the email address.
 - 5. **Trigger FTP:** If "Trigger FTP" and "Attach Picture" are checked, the captured images will be sent into FTP server address. Please refer to FTP setup section for more details.
- 2. Set motion detection area and sensitivity. Click the "Area and Sensitivity" tab to go to the interface as shown below.



6.

3. Move the "Sensitivity" scroll bar to set the sensitivity. Higher sensitivity value means that motion will be

- triggered more easily.
- 4. Select "Add" and click "Draw". Drag the mouse to draw the motion detection area; Select "Erase" and drag the mouse to clear any part of the motion detection area.
- 5. Click "Save" to save the settings. "Clear All" can be used to clear out the entire motion zone.
- 6. Set the schedule for motion detection.



Weekly Schedule

- Set the alarm time for Monday to Sunday for a single week. Each day is divided into one-hour increments.

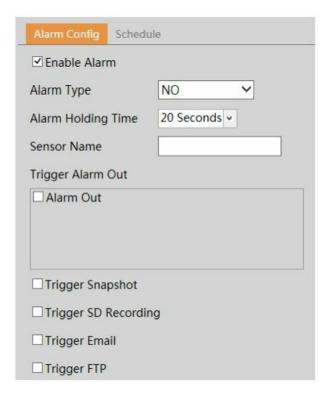
 Orange color means scheduled. Blank means unscheduled. Note that if a specific time period is not scheduled for motion, the device will not generate a motion alarm even if motion is enabled. "Add": Add the schedule for a special day. Drag the mouse to set the time on the timeline.
- Erase": Delete the schedule. Drag the mouse to erase the time on the timeline.
- Manual Input: Click it for a specific day to enter specific start and end times. This adds more granularity (minutes).

Day schedule

- Set the alarm time for alarm a specific day, such as a holiday.
- Note: The holiday schedule takes priority over the weekly schedule.

Alarm In (Sensor Input)

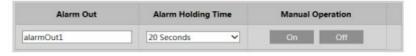
Go to the Event Setup→Alarm In interface shown below.



- 1. Click "Enable Alarm" and set the alarm type, alarm holding time and sensor name.
- 2. Set alarm trigger options. The setup steps are the same as motion detection.
- 3. Click "Save" button to save the settings.
- 4. Set the schedule of the sensor alarm. The setup steps of the schedule are the same as motion detection schedule setup.

Alarm Out

Go to Event Setup→Alarm Out.



- Select alarm holding time in the "Alarm Holding Time" pull down.
- Click "On" to trigger alarm out. Click "off" to stop alarm out.
- · Click "Save" button to save the settings.

Alarm Server

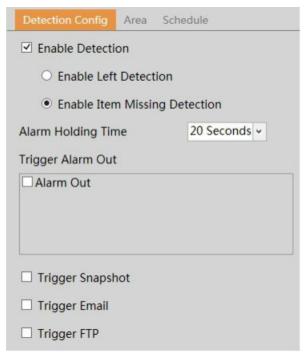
- Go to the Event Setup→Alarm Server interface shown below.
- Enter the server address and port. When an alarm occurs, the device will transfer the alarm event to the alarm server. If an alarm server is not needed, there is no need to configure this section.



- This device supports certain smart functions, such as object removal, line crossing detection, region intrusion, etc. These events can be triggered as alarm events.
- Note: For more accuracy, here are some recommendations for installation.
- Cameras should be installed on stable surfaces, as vibrations can affect the accuracy of detection.
- Avoid pointing the camera at reflective surfaces.
- · Avoid places that are narrow or have too much shadowing.
- Avoid scenarios where the object's color is similar to the background color.
- At any time of day or night, make sure the image of the camera is clear and with adequate and even light, avoiding overexposure or too much darkness on both sides.

Object Removal

- The alarm will be triggered when objects are removed from or left at the pre-defined area. To set object removal:
- Go to the Analytics→Object Removal interface shown below.



Enable object removal detection and then select the detection type.

- Enable Left Detection: Alarms will be triggered if there are items left in the pre-defined area.
- Enable Item Missing Detection: Alarms will be triggered if there are items missing in the pre-defined alarm area.
- 1. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection.
- 2. Click "Save" button to save the settings.
- 3. Set the alarm area of the object removal detection. Click the "Area" tab to go to the interface shown below.



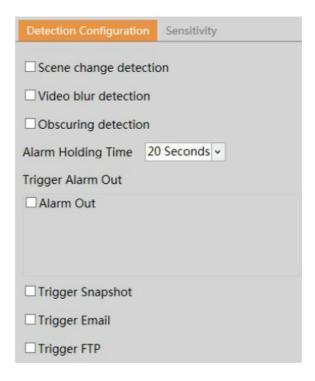
- 4. Set the alarm area number and then enter the desired alarm area name. Up to 4 alarm areas can be added. Click the "Draw Area" button and then click around the area where you want to set it as the alarm area in the image (the alarm area should be a closed area). Click the "Stop Draw" button to stop drawing. Click the "Clear" button to delete the alarm area. Click the "Save" button to save the settings.
- 5. Set the schedule of the object removal detection in the Schedule tab. The setup steps of the schedule are the same as the motion detection schedule setup.

Configuration requirements of the camera and surrounding area

- 1. The range of the detection object should occupy from 1/50 to 1/3 of the entire image.
- 2. The detection time of objects in the camera should be from 3 to 5 seconds.
- 3. The defined area cannot be covered frequently and continuously (like people and traffic flow).
- 4. It is necessary for object removal detection that the drawn frame must be very close to the margin of the object to enhance the sensitivity and accuracy of the detection.
- 5. Object removal detection cannot determine the objects' ownership. For instance, there is an unattended package in the station. Object removal detection can detect the package itself but it cannot determine to whom it belongs to.
- 6. Try not to enable object removal detection when light changes greatly in the scene.
- 7. Try not to enable object removal detection if there are complex and dynamic environments in the scene.
- 8. Adequate light and clear scenery are very important to object removal detection.

Abnormality

This function can detect changes in the surveillance environment affected by the external factors. Go to the Analytics→Abnormality interface shown below.



- 1. Enable the applicable detection that's desired.
 - Scene Change Detection: Alarms will be triggered if the scene of the video has changed.
 - Video Blur Detection: Alarms will be triggered if the video becomes blurry.
 - Obscuring Detection: Alarms will be triggered if the video becomes obscured.
- 2. Set the alarm holding time and alarm trigger options. The setup steps are the same as motion detection.
- 3. Click the "Save" button to save the settings.
- 4. Set the sensitivity of the exception detection. Click the "Sensitivity" tab to go to the interface shown below.



- Drag the slider to set the sensitivity value or directly enter the sensitivity value in the textbox. Click "Save" to save the settings.
- The sensitivity value of Scene Change Detection: The higher the value is, the more sensitive the system responds to the amplitude of the scene change. The sensitivity value of Video Blur Detection: The higher the value is, the more sensitive the system responds to the blurriness of the image.
- The sensitivity value of Obscuring Detection: The higher the value is, the more sensitive the system responds to the obscuring of the image.

Configuration requirements of a camera and surrounding area

- 1. The auto-focusing function should not be enabled for abnormality detection.
- 2. Try not to enable abnormality detection when light changes greatly in the scene.

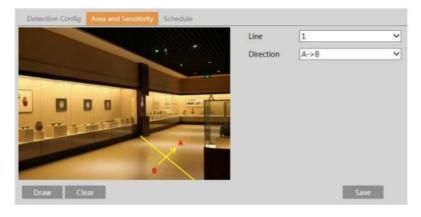
Line Crossing

• Line Crossing: Alarms will be triggered if someone or something crosses the pre-defined alarm lines. Go to

Analytics→Line Crossing shown below.



- 1. Enable the alarm and set the alarm holding time.
- 2. Set alarm trigger options. The setup steps are the same as motion detection.
- 3. Click the "Save" button to save the settings.
- 4. Set area and sensitivity of the line crossing alarm. Click the "Area and Sensitivity" tab to go to the interface shown below.



- Set the line number and direction. Up to 4 lines can be added. Multiple lines cannot be added simultaneously.
- **Direction:** A<->B, A->B and A<-B optional. This indicates the direction of the intruder who crosses over the alarm line that would trigger the alarm.
- A<->B: The alarm will be triggered when the intruder crosses over the alarm line from B to A or from A to B.
- A->B: The alarm will be triggered when the intruder crosses over the alarm line from A to B.
- A<-B: The alarm will be triggered when the intruder crosses over the alarm line from B to A.
- Click the "Draw" button and then drag the mouse to draw a line in the image. Click the "Stop" button to stop drawing. Click the "Clear" button to delete the lines. Click the "Save" button to save the settings.
- Set the schedule of the line-crossing alarm. The setup steps of the schedule are the same as the motion detection schedule setup.

Configuration requirements of the camera and surrounding area

- 1. The auto-focusing function should not be enabled for line-crossing detection.
- 2. Avoid scenes with many trees or scenes with various light changes. The ambient brightness of the scene

should not be too low.

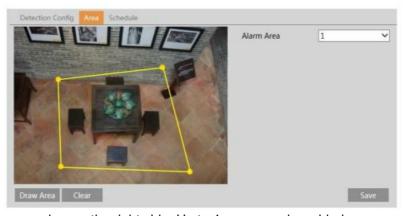
- 3. Cameras should be mounted at a height of 10 ft or above.
- 4. Keep the mounting angle of the camera at about 45°.
- 5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.
- 6. Make sure the camera can view objects for at least 2 seconds in the detected area for accurate detection.
- 7. Adequate light and clear scenery are crucial for line-crossing detection.

Intrusion

Intrusion: Alarms will be triggered if someone or something intrudes into the defined areas. Go to the Analytics→Intrusion interface shown below.



- 1. Enable the region intrusion detection alarm and set the alarm holding time.
- 2. Set alarm trigger options. The setup steps are the same as motion detection.
- 3. Click the "Save" button to save the settings.
- 4. Set the alarm area for intrusion detection. Click the "Area" tab to go to the interface shown below.



- Set the alarm area number on the right side. Up to 4 areas can be added.
- Click the "Draw Area" button and then click around the area where you want to set it as the alarm area in the image on the left side (the alarm area should be a closed area).
- Click the "Stop Draw" button to stop drawing. Click the "Clear" button to delete the alarm area. Click the "Save" button to save the settings.
- 5. Set the schedule of the intrusion detection. The setup steps of the schedule are the same as the motion

detection schedule setup.

Configuration requirements of the camera and surrounding area

- 1. The auto-focusing function should not be enabled for intrusion detection.
- 2. Avoid scenes with many trees or scenes with various light changes. The ambient brightness of the scene should not be too low.
- 3. Cameras should be mounted at a height of 10 ft or above.
- 4. Keep the mounting angle of the camera at about 45°.
- 5. The detected objects should not be less than 1% of the entire image and the largest sizes of the detected objects should not be more than 1/8 of the entire image.
- 6. Make sure the camera can view objects for at least 2 seconds in the detected area for accurate detection.
- 7. Adequate light and clear scenery are crucial to intrusion detection.

Network Setup

TCP/IP

Go to the Network Setup→TCP/IP interface shown below. There are two ways for network connection.



- Use IP address (take IPv4 for example) obtain a local IP address automatically through DHCP. A typical router has a DHCP server built in, and therefore is able to assign an IP address to the device.
- Use PPPoE Click the "PPPoE Config" tab to go to the interface shown below. Enable PPPoE and then enter the user name and password from the ISP.



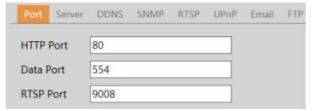
- Either method of network connection can be used. If PPPoE is used to connect internet, the device will get a dynamic WAN IP address. This IP address will change frequently. To be notified, the IP change notification function can be used.
- Click the "IP Change Notification" to go to the interface shown below.



- **Trigger Email:** when the IP address of the device is changed, the new IP address will be sent to the email address that has been set up.
- **Trigger FTP:** when the IP address of the device is changed, the new IP address will be sent to the FTP server that has been set up.

Port

Go to the Network Setup→Port interface shown below. HTTP port, Data port, and RTSP port can be set.



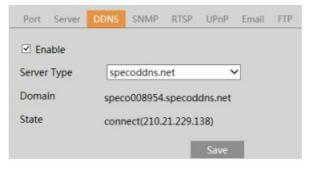
- HTTP Port: The default HTTP port is 80. It can be changed to any port which is not occupied.
- Data Port: The default data port is 554. Change it as necessary.
- RTSP Port: The default port is 9008. Change it as necessary.

DDNS

- If the device is set up with a DHCP connection, DDNS should be set for accessing the device from the internet.
- 1. Go to the DDNS tab.



2. Enable, save, and use DDNS to log in.



SNMP

To get device status, parameters and alarm information and remotely manage the device, the SNMP function can be used. Before using SNMP, please install an SNMP management tool and set the parameters of SNMP, such as

- 1. Go to the SNMP tab.
- 2. Check the corresponding version checkbox (Enable SNMPv1, Enable SNMPv2, Enable 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.



RTSP

Go to the RTSP tab.



- Select "Enable" to enable the RTSP function. Note that RTSP streaming is used to stream the video to the NVR, so it is highly recommended to leave this enabled.
- Port: Access port of the streaming media. The default port is 9008.
- RTSP Address: The RTSP address format that can be used to play the stream in a media player.
- If "Allow anonymous login" is checked, there is no need to enter the username and password to view the video.

UPnP

- If this function is enabled, the device can be quickly accessed through the LAN.
- Go to the UPnP tab. Enable UPnP and then enter the UPnP name.



Email

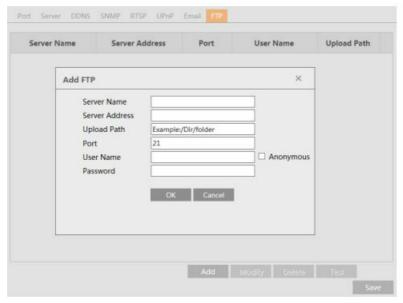
If you need to trigger Email when an alarm happens or IP address is changed, please set the Email here first.
 Go to Config→Network →Email.



- · Sender Address: sender's email address.
- User name and password: sender's user name and password.
- Server Address: The SMTP IP address or host name.
- Select the secure connection type at the "Secure Connection" pull-down list according to what's required.
- SMTP Port: The SMTP port.
- Send Interval(S): The time interval of sending email. For example, if it is set to 60 seconds and multiple motion detection alarms are triggered within 60 seconds, they will be considered as only one alarm event and only one email will be sent. If one motion alarm event is triggered and then another motion detection alarm event is triggered after 60 seconds, two emails will be sent. When different types of alarms are triggered at the same time, multiple emails will be sent separately.
- Click "Test" button to test the connection of the account.
- · Recipient Address: receiver's email address.

FTP

- After an FTP server is set up, captured images from events will be uploaded to the FTP server.
- Go to the FTP tab.



• Server Name: The name of the FTP server.

• Server Address: The IP address or domain name of the FTP.

• Upload Path: The directory where files will be uploaded to.

• Port: Port of the FTP server.

• Use Name and Password: The username and password that are used to login to the FTP server.

Security Configuration

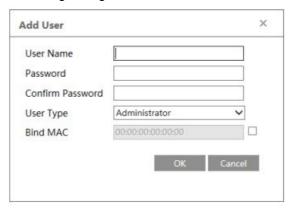
User Admin

Go to the Security→User Admin interface shown below.



Add user:

1. Click the "Add" button to pop up the following dialog box.



2.

- 2. Enter a user name in the "User Name" textbox.
- 3. Enter letters or numbers in the "Password" and "Confirm Password" textbox.
- 4. Choose the user type. The administrator has all permissions. Normal users can only view the live video.

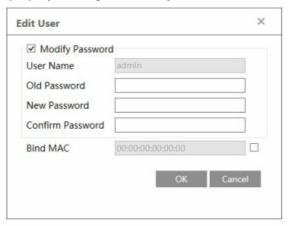
 Advanced user has the same permissions as an Administrator except for user admin, backup settings, factory

reset, and upgrading the firmware.

- 5. Enter the Mac address of the PC in the "Bind MAC" textbox. If this option is enabled, only the PC with the specified Mac address can access the device for that user.
- 6. Click "OK" and then the newly added user will be displayed in the user list.

Modify user:

- 1. Select a user to modify the password and the Mac address if necessary in the user configuration list box.
- 2. The "Edit user" dialog box will pop up by clicking the "Modify" button.



- 3. Enter the old password of the user in the "Old Password" text box.
- 4. Enter the new password in the "New password" and "Confirm Password" text boxes.
- 5. Enter the computer's MAC address as necessary.
- 6. Click the "OK" button to save the settings.

Note: To change the access level of a user, the user must be deleted and added again with the new access level.

Delete user:

- 1. Select the user to be deleted in the user configuration list box.
- 2. Click the "Delete" button to delete the user.

Note: The default administrator account cannot be deleted.

Online User

Go to Security→Online User. All users who are viewing the live video will be listed.



• An administrator can kick out all the other users (including other administrators).

Block and Allow Lists

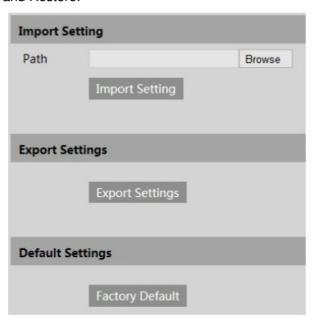
Go to Security→Block and Allow Lists shown below.



- The setup steps are as follows:
- Check the "Enable IP address filtering" check box.
- Select "Block the following IP address", enter the IP address in the IP address list box and click the "Add" button. The setup steps for "Allow the following IP address" and MAC address filter settings are the same as "Block the following IP address".
- Maintenance Configuration

Backup and Restore

• Go to Maintenance→Backup and Restore.



- Import & Export Settings
- Configuration settings of the device can be exported and imported into another unit.
- 1. Click "Browse" to select the save path for import or export information on the PC.
- 2. Click the "Import Setting" or "Export Settings" button.

Default Settings

Click the "Load Default" button to restore all system settings to the default factory settings.

Reboot

- Go to Maintenance→Reboot.
- Click the "Reboot" button to reboot the device.

Timed Reboot Setting:

• If desired, the device can be set up to reboot on a time interval. Enable "Time Settings, set the day and time and then click "Save" button to save the settings.

Upgrade

Go to Maintenance→Upgrade. In this interface, the device firmware can be updated.

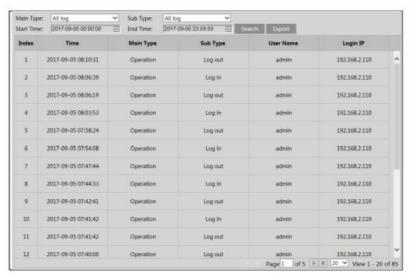


- 1. Click the "Browse" button to select the location of the firmware file.
- 2. Click the "Upgrade" button to start upgrading the firmware.
- 3. The device will restart automatically.

Caution! Do not close the browser or disconnect the device from the network during the upgrade.

Log To query and export log:

Go to Maintenance→ Log.

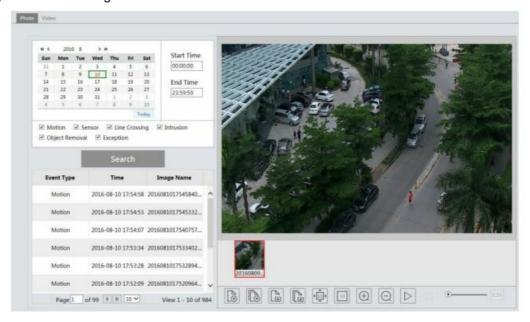


- 2. Select the main type, sub type, start and end time.
- 3. Click "Search" to view the operation log.
- 4. Click "Export" to export the operation log.

Search

Image Search

- From the Live View page, click Search→Photo to go to the interface shown below. Images that are saved on the SD card can be found here.
- Note that if there is no SD card installed in the device or the SD card is not compatible with the device, a popup message will show stating that there is no card.



- 1. Set search time: Select the date and choose the start and end time.
- 2. Check the events to search for.
- 3. Click the "Search" button to search for images based on the different event types that were chosen.
- 4. Click a file name in the list to view the captured image.

The descriptions of the buttons are shown as follows.

Icon	Description	Icon	Description
B	Close: Select an image and click this button to close the image.		Close all: Click this button to close all images.
(a)	Save: Click this button to select the path for saving the image on the PC.		Save all: Click this button to select the path for saving all images on the PC.
<u>▼ 1:1</u> 4	Fit size: Click to fit the image on the screen.	×1	Actual size: Click this button to display the actual size of the image.
\oplus	Zoom in: Click this button to digitally zoom in.	0	Zoom out: Click this button to digitally zoom out.
	Slide show play: Click this button to start the slide show mode.		Stop: Click this button to stop the slide show.
⊙ [5,55]	Play speed: Play speed of the slide sho	w.	,

Video Search

• Click the Video tab and select Local Video to go to the interface shown below. Videos that were recorded locally to the PC can be played in this interface.



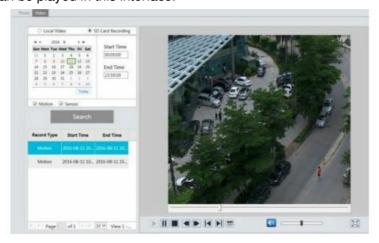
- 1. Set search time: Select the date and choose the start and end time.
- 2. Click the "Search" button to search for recordings.
- 3. Double click on a file name in the list to start playback.

The descriptions of the buttons on the playback interface are as follows.

Icon	Description	Icon	Description
D	Play button. After pausing the video, click this button to continue playing.		Pause button.
	Stop button.		Speed down.
	Speed up.		Plays the previous record.
	Plays the next record.	₩ M	Watermark display.
	Enable / disable audio; drag the slider to adjust the volume after enabling audio.		Full screen. Click it to display full screen. Double click to exit full screen.

SD Card Video Search

• Click the Video tab and select SD Card Recording to go to the interface shown below. Videos that were recorded the SD card can be played in this interface.

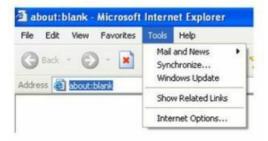


- 1. Set search time: Select the date and choose the start and end time.
- 2. Click the "Search" button to search for recordings.
- 3. Double-click on a file name in the list to start playback.

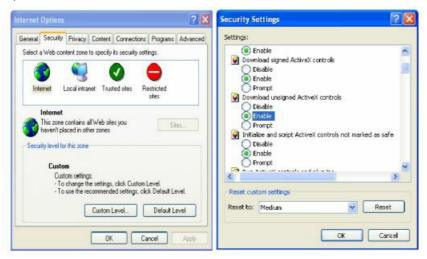
Appendix

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



speco technologies OSW8T 8 Channel TV Analog Encoder [pdf] User Manual OSW8T 8 Channel TV Analog Encoder, OSW8T, 8 Channel TV Analog Encoder, Channel TV Analog Encoder, TV Analog Encoder, Analog Encoder

References

• User Manual

Manuals+,