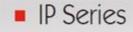
# **USER MANUAL**







# This user manual covers the following cameras:

S-Sight v2:

- 320IPS 4MP Series (All Lenses)
- 340IPS 4MP Series (All Lenses)

# v4.2.1 User Manual

For H.265 IP Camera All rights reserved

### Notes

- Before operating the camera, we strongly advise users to read this manual and keep it for later use.
- Please use the specified power supply to connect.
- Avoid incorrect operation, shock vibration, heavy pressing which can cause damage to the product.
- Do not use corrosive detergent to clean the body of the camera. If necessary, please use a soft dry cloth to wipe dirt; for hard contamination, use neutral detergent. Any cleanser for high-grade furniture is applicable.
- Avoid aiming the camera directly towards extremely bright objects, such as the sun, as this may damage the image sensor.
- Please follow the instructions to install the camera. Do not reverse the camera, or the reversing image will be received.
- Do not operate the camera in extreme temperatures or extreme humidity conditions.
- Use the power supply supplied authorized by a PROVISION-ISR technician.
- Keep away from heat sources such as radiators, heat registers, stove, etc.
- The instructions in this manual could be outdated; if you need any clarifications you can contact an authorized PROVISION-ISR technician. PROVISION-ISR reserves the right to add changes to this manual and publish it online on our website (www.provision-isr.com): there may be inconsistencies with the latest version. This applies to any and all software upgrades and product improvements, interpretation and modification added. These changes will be published in the latest version without prior notification.
- When this product is in use, the relevant contents of Microsoft, Apple and Google will be involved in. The pictures and screenshots in this manual are only used to explain the usage of our product. The ownership of trademarks, logos and other intellectual properties related to Microsoft, Apple and Google belong to the above-mentioned companies.
- All pictures and examples used in the manual are for reference only.

#### **IP CAMERA USER MANUAL**

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# Introduction

This IPC (short for IP Camera) is designed for high-performance CCTV solutions. It adopts the state of the art video processing chips and utilizes most advanced technologies, such as video encoding and decoding technology, complies with the TCP/IP protocol, SoC, etc to ensure that this system will be extremely stable and reliable. The IPC device should be used together with Provision-ISR's IP manager to enable the quick setting and full utilization of the camera.

#### **Main Features**

- ICR auto switch, true day/night
- H.265/H.264 Compression
- 3D DNR, D-WDR
- ROI coding
- PoE power supply
- Remote monitoring support (Via smartphone/CMS/IE)

## 1

# 2 IE Remote Access

You may connect IPC via LAN or WAN. In this manual, we will use IE v11 for example. The details are as follows:

#### 2.1 LAN

In LAN, there are two ways to access IPC:

- 1. Access through IP Manager Software.
- 2. Direct access through IE browser.

#### 2.1.1 Access through IP-Manager

① Make sure the PC and IPC are connected to the LAN and that the IP-Manager is installed on the PC. You can install the IP manager form the disc provided with the camera or download it by clicking <u>here</u>.

(2) Double-click the IP-Manager icon on the desktop to run this software as shown below:

Re	fresh 👻						0	a alexandre
	Device Nam	Device Type	IP Address	Software Version	Status	Status De	escrip	
		ONVIF	192.168.2.154					
Ш		ONVIF	192.168.2.153					
	13-340IP	IPC	192.168.2.129	4.1.3.0(11838)				
	18-3401P	IPC	192.168.2.123	4.2.0.0(12870)	0	Succe	ssful	Sector Di Martina Carto
13	dh	IPC	192.168.2.121	4.1.3.0(13035)				Mac addr 00 :18 :AE :33 :33 :11
B		ONVIF	192.168.2.116					Mac addr 00 - 16 - AE - 55 - 55 - 11
		ONVIF	192.168.2.110					C C C C C C C C C C C C C C C C C C C
13	IPCamera	IPC	192.168.2.106	4.1.3.0(12792)				
	All Cle	ar Check Sa	те Туре			Chosen: (	) / 9	<ul> <li>(i) The three the device mac add, and then reboot the device to restore the default configuration in 30 seconds.</li> </ul>
Bat	h Update	Batch Set NET	Batch Set Stream	Batch Modify PWD	Batch S	et Picture		
	Software 🗸	dmin	PWD:	Browse				

(3) Modify the IP address. The default IP address of this camera is 192.168.226.201. Tick all the cameras you wish to set and then click on the "Batch Set NET" tab.

C Automatically gets IP add	
Output See See See See See See See See See Se	
IP addr range: Start	Subnet Mask
End	Getway
USER: admin PWE	Batch Set

If you wish to use DHCP (IP Address automatic assignment), choose "Automatically gets IP address", set the password and click on "Batch set". Wait for a few moments until the IP manager will configure the cameras. After configuration, the IP addresses of the cameras will refresh automatically.

#### Please note:

- 1) In order for the DHCP mode to work, you must have a DHCP server on the LAN.
- 2) Using DHCP for permanent installations is not advisable as the IP Address might change after a while and cause the camera to be unreachable.

If you wish to set static IP addresses, choose "Uses the following IP Addresses", set the range of IP addresses you wish to assign (First and last address), set the gateway and subnet mask and click on batch set. Wait for a few moments until the IP manager will configure the cameras. After configuration, the IP addresses of the cameras will refresh automatically.

#### Please note:

- 1) The IP range must fit the number of chosen cameras.
- 2) The selected IP addresses in the specified range must be available.

For example, if the IP address of your computer is 192.168.1.4, then the IP address of the cameras should be changed to 192.168.1.x. (x stands for any number between 1 and 255).

#### The default password of the administrator is "*123456*".

(4) Double click on the IP address of the system will pop up IE browser and connect to the IPC. IE browser will auto download the Active X control. You must install it in order for the camera to work. After successful installation, a login window will appear as shown below.

			_
Sol .	Name: Password:	admin Password	
	Stream Type: Language:	2560x1440 25fps English	~ ~
IPC		Remember me     Login	

Input the username and password to log in.

5

The default username is "admin"; the default password is "123456".

#### 2.1.2 Direct Access through IE

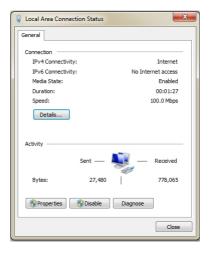
The default network settings are as shown below:

IP address: **192.168.226.201** Subnet Mask: **255.255.0** Gateway: **192.168.226.1** HTTP: **80** Data port: **9008** You may use the above default settings when you log in the camera for the first time.

① You can use the IP manager to access the camera even if the camera is still using the default IP address. Double click on the IP address within the IP manager for the system to pop up IE browser and connect to the IPC. IE browser will auto download the Active X control. You must install it in order for the camera to work. After successful installation, a login window will appear.

You can then set the IP address from the camera configuration menu.

(2) If you wish to access the camera using its default IP address you will have to manually set the IP address of the PC to be in the same IP segment as the default settings of the IP camera. Open the network and sharing center. Click "Local Area Connection" to pop up the following window.



Select "Properties" and then select internet protocol according to the actual situation (most probably you are using IPv4). Next, click "Properties" button and set the network of the PC as shown below.

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#### **IP CAMERA USER MANUAL**

Internet Protocol Version 4 (TCP/IPv4	I) Properties			
General				
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.				
Obtain an IP address automatically				
Ose the following IP address:				
IP address:	192 . 168 . 226 . 4			
Subnet mask:	255.255.255.0			
Default gateway:	192 . 168 . 226 . 1			
<ul> <li>Obtain DNS server address automatically</li> </ul>				
O Use the following DNS server addresses:				
Preferred DNS server: 192 . 168 . 226 . 1				
Alternate DNS server:				
Validate settings upon exit Advanced				
	OK Cancel			

(2) Open the IE browser and input the default address of IPC and confirm. The IE browser will download Active X control automatically.

(3) After downloading and installing the Active X control, the login dialog box will appear.

④ Input the default username and password and click "Login".

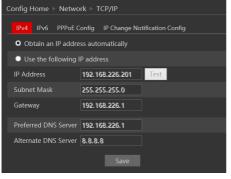
#### 2.2 WAN

#### Allows you to access the camera using a router or virtual server.

(1) Make sure the camera is well connected and configured via LAN. Log in the camera via LAN and go to the Config $\rightarrow$ Network Config $\rightarrow$ Port menu to set up the port number.

(2) Go to Config  $\rightarrow$  Network Config $\rightarrow$  TCP/IP menu to modify the IP address.

(3) After modifying the IP Address, click on "Port" and modify the port according to your needs.



HTTP Port	80
HTTPS Port	443
Data Port	9008
RTSP Port	554
	Save

Port Setup



(4) Go to the router's management interface through IE browser to forward the IP address and port of the camera to the "Virtual Server". In the picture example below you will see an example of the setting as if the IPC IP address is "192.168.6.6" and the ports are default (9008 & 80)

irt to to	End 9008 81	Protocol Both 💌 Both 💌	IP Address 192.168.6. 6 192.168.6. 6	Enabl
to				
-	81	Both 💌	192.168.6. 6	
0 to	10001	Both 💌	192.168.6. 166	
0 to	21001	Both 💌	192.168.6. 156	
to	7778	Both 💌	192.168.6. 206	
to	1030	Both 💌	192.168.6. 207	
	to to	10 to 21001 to 7778 to 1030	10 to 21001 Both - to 7778 Both -	10         to         21001         Both ×         192.168.6.         156           1         to         7778         Both ×         192.168.6.         206           1         to         1030         Both ×         192.168.6.         207

④ Open the IE browser and input your WAN IP and HTTP port to access the camera.

# 3 Live Preview

#### 3.1 The Live Preview Interface



Icon	Description	Icon	Description
$\boxed{}$	Actual Size	1	Digital Zoom-in
	Fit to screen – True Proportions	Ø	Digital Zoom-Out
	Fit to screen - Stretch	*	Motion Detection indicator
	Full screen	Ð	SD Card recording indicator
	Enable/Disable live view	Main stream	Use mainstream for live-view
	Listen	Sub stream	Use sub-stream for live-view
Ō	Take Snapshot	Third stream	Use third stream for live-view*
	Enable/Disable Local Recording	Balanced -	Choose the buffering plan

# Icons and operation buttons:

\*If applicable

#### 3.2 MVF (Motorized Vari-Focal) Controls\*

Clicking on the MVF lens controls will unfold the MVF control panel. Using this interface, you can control the zoom and focus of the MVF lens.

The descriptions of the control panel are as follows:

Icon	Description	Icon	Description
<b>###</b>	Zoom Out		Focus In
<b>\$</b>	Zoom In	Ð	One Key Focus
1	Focus Out		

\*Relevant for MVF Models Only

# **4 IPC Configuration**

In this chapter, we will go through all the possible configurations of the IPC.

#### 4.1 System Configuration

The "System Configuration" includes four submenus: Basic Information, Date & Time, Local Config and Storage.

#### 4.1.1 Basic Information

In the "Basic Information" interface, you can view all the necessary information related to the IPC, as seen below:

Config Home ► System	Basic Information
Device Name	I4-340IPS-MVF
Product Model	I4-340IPS-MVF
Brand	Provision ISR
Software Version	4.2.1.0(26188)
Software Build Date	2020-01-02
Kernel Version	010D0509
Hardware Version	1.3-1414202
Onvif Version	19.06
OCX Version	2.0.5.6
MAC	00:18:ae:00:83:82
Device ID	I83820021E8M

The following table will explain the available detail field.

#### **IP CAMERA USER MANUAL**

Parameter	Meaning
Device name	Name of the device - can be modified from
	the OSD settings
Product Model	The model of the device
Brand	The brand of the camera
Software version	The current software version
Software build date	The software build-date
Kernel version	The kernel version of the device
Hardware version	The hardware version of the device
ONVIF Version	The current ONVIF version
OCX Version	The current OCX version
Mac Address	The MAC address of device

#### 4.1.2 Date & Time Configuration

#### Setting steps:

1. Go to Config $\rightarrow$ Date & Time menu as shown below.

Config Home 🕨 System	Date and Time	
Zone Date and Time		
Time Zone: GMT	(Dublin, Lisbon, London, Reykjavik)	<b>~</b>
DST		
Auto DST		
Manual DST		
Start Time	January 🚩 First 🗹 Sunday 🗹 00	✓ Hour
End Time	January 🚩 First 🔽 Sunday 🗹 00	✓ Hour
Time Offset	30 Minutes	$\mathbf{\mathbf{\vee}}$

2. Set the time zone.

3. Enable DST mode if required. DST settings are already configured according to your time zone. If you wish to set the DST manually, switch to "Manual DST" and set it accordingly.

4. To set the date and time, click on the "Date and Time" tab. You may synchronize the camera time with an NTP server (Internet connection required), synchronize the camera time with the time of the computer you are using or set the time manually.

Zone Date and Time
Time Mode:
• Synchronize with NTP server
NTP server: time.windows.com
Synchronize with computer time
Date 2017-10-23 Time 11:12:31
Set manually
Date 2017-10-23 🥅 Time 08:12:29

#### 4.1.3 Local Config

1. Got to "System Configuration"  $\rightarrow$  "Local config" as shown below:

C:\Users\Tal Hanoch	۱\Favorites	Browse
C:\Users\Tal Hanoch	1\Favorites	Browse
🔍 Open	O Close	
Open	• Close	
	C:\Users\Tal Hanoch	

From here you can set the path on your computer where local snapshots and videos will be saved.

You can also choose if the camera will show the current bit-rate on the live-view image (Local interface only).

#### 4.1.4 Storage

The SD card feature allows you to insert an SD card into the camera and enable the camera to operate with a local storage. The SD card will be used for both snapshot and video files. You can allocate a certain percentage for each from the settings menu.

1. Go to "System Configuration"  $\rightarrow$  "Storage" as shown below:

Config Home 🕨 Syste	em ⊨ Storage
Management Reco	ord Snapshot
Capacity	7541 MB
Used Capacity	7237 MB
Remaining Capacity	304 MB
State	Normal
Snapshot Quota	10 %
Video Quota	90 %
	Eject Format

If it is the first time you are using the SD card with the camera or if the state is showing any value different than "Normal", you should click on "Format" before the SD card will be available for recording.

Click "Eject card" to stop writing data to SD card and allow you to remove it safely. Inserting an SD card to the camera must be done while the camera is powered off.

**Note**: Using of SD card function should be coordinated with motion or sensor alarms.

(B

The following table will explain the available detail field.

Parameter	Meaning
Capacity	The total capacity of the SD card
Used capacity	The capacity currently being used
Remaining Capacity	The available capacity
State	The state of the SD card.
Snapshot Quota	The percentage of the SD card dedicated for Snapshots
Video Quota	The percentage of the SD card dedicated to Videos

The next tab is "Record". Click on it to set the video recording parameters and schedule.

onfig Ho	ome⊧⊧	Syste	em	⊳s	tora	ge																		
Manage	ement				iapsł	- 10t																		
Record	Ctraam		Ma	ain				~																
Pre Reo	ord Tim		No	o Pre	e Ala	rm í	Reco	r <mark>`</mark>																
Recycle	Record	ing	Ye	s				~																
Schedu	le																							
Enat	ole Sche	dule	Rec	ord	ina																			
																					Era	se 🕻	A C	bb
Week	Schedul	le																						
Sun.	00:00-2																						Inpu	
				. 4	5	6		8	9	10		12	13	14	15	16	17	18	19	20	21	22	23	24
Mon.	00:00-2	24:00																					Inpu	ŧ
Tue.																					21	22	23	
Tue.	00:00-2	24:00																					Inpu	ŧ
			S	4	5	6		8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
Wed.	00:00-2	24:00																			Mar	nual	Inpu	E
	0 1	2	3	. 4	5	6	7	8	9	10		12	13	14	15	16	17	18	19	20	21	22	23	2
Thu.	00:00-2	24:00																				nual	Inpu	ŧ
	0.1.	2	3	4	5	6		8	9	. 10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
	00:00-2	24:00																			Mar	nual	Inpu	ŧ
	0 1	2	3	.4	5	6	7	8	9	10	. 11	12	13	14	15	16	17	18	19	20	21	22	23	2
Sat.	00:00-2	24:00																			Mar	nual	Inpu	i.
Holida	iy Schec	lule																						
	Date	10-	<b>7</b> 2	_			Ξ	Add	_			_	_	_	-	7								
	June		25																					
							7	)elet 8	е 9															
	00:00-2	14.00																						
	00:00-2	24800																			Ma	nual	Inpu	£

The video parameters are as follows:

Parameter	Meaning
Record stream	Which video stream will be used for record
Cycle recording	Weather to recycle record or stop when the SD card is
	full

Below are the schedule settings. Enable the schedule if required and set the recording time for each of the weekdays. You can also set a holiday schedule and add required dates to it.

The next tab is "Snapshot" Click on it to set the snapshot parameters and schedule.

Config Home 🕨 System 🕨 Storage							
Management Rec	ord Snapshot						
Snapshot Paramete	ers						
Image Format	JPEG 🛩	1					
Resolution	704x576						
Image Quality	Low	1					
Event Trigger							
Snapshot Interval	1	Second					
Snapshot Quantity	5						
Schedule							
Enable schedule	d Snapshot						
Snapshot Interval	5	Second					

The snapshot parameters are as follows:

Parameter	Meaning
Image Format	The image format is JPEG
Resolution	Set the snapshot resolution
Image quality	The quality of the image reflects on its size.
Snapshot Interval	The duration between two snapshots
Snapshot Quantity	The total number of snapshots to be taken after a trigger
Scheduled snapshots	Taking a snapshot according to a specified schedule

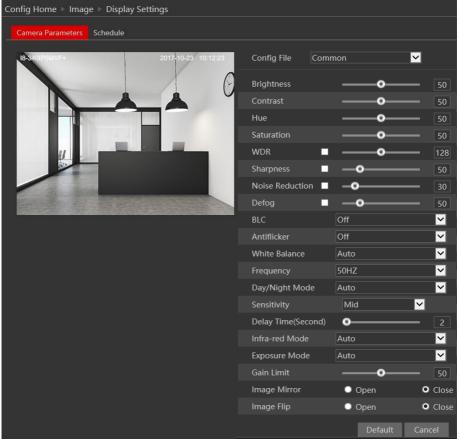
Below are the schedule settings. Enable the schedule if required and set the recording time for each of the weekdays. You can also set a holiday schedule and add required dates to it.

#### 4.2 Video Configuration

Camera Configuration includes five submenus: Display Configuration, Video Stream, OSD Config, Video Mask and ROI Config.

#### 4.2.1 Camera Configuration

Setting steps:



1. Go to "Video Configuration"  $\rightarrow$  "Display" interface as shown below.

The display parameters are as follows:

Parameter	Meaning
Config file*	You can set an individual configuration for Day and night. Common is used for both
Brightness	Set the image brightness
Contrast	Set the image contrast
Hue	Set the image hue
Saturation	Set the image saturation

#### **IP CAMERA USER MANUAL**

WDR	Digital Wide dynamic range digitally brightens the dark areas and darkens the bright areas in order to provide a clear image without burnt pixels.
Sharpness	Enable/Disable the sharpness and set its level
Noise reduction	Enable/Disable the 3D-DNR and set its level
Defog	Enable/Disable the defog and set its level
BLC	Set HLC/BLC/True-WDR to deal with advanced light conditions.
Level	The Level of the HWDR/BLC/HLC
Anti-Flickering	Manually set the shutter to synchronize with 50/60Hz environments.
White Balance	Set the white balance of the camera
Frequency	Set the frequency to 50/60Hz
Day/Night Mode*	Set the day/night mode (Auto/Day/Night/Schedule)
Sensitivity	The light sensor sensitivity
Delay Time	The delay time before switching day/night modes
Infra-Red Mode	Set the IR status
Exposure Mode	Set the exposure to auto or set it manually
Image Mirror	Mirror the image horizontally
Image Flip	Flip the image vertically

\*If you set the day/night mode to schedule or you wish to differentiate between the daytime and night-time image settings, you will need to set the schedule accordingly.

Click on the "Schedule" tab and set the schedule as you wish.



#### 4.2.2 Video/Audio

Go to "Video configuration"  $\rightarrow$  "Video/Audio" to see an interface as shown below.

Index	Stream Name	Resolution		Frame Rate	Bitrate Type		Bitrate(Kbps)	Video Quali	ty	I Frame Interval	Video Compression	Prof	le
			~			~	5120 ~	Highest	$\mathbf{\mathbf{v}}$		H264 🗸		<b>×</b>
			~			~	768 👻	Highest	$\sim$		H264 🗸		<b>×</b>
			~			$\sim$	512 ~	Higher	$\sim$		H264 🗸		<b>V</b>

Three video streams are available (Some models only support 2 streams). You can set each one of them differently with the limitations of the camera's capabilities.

Resolution: The higher the resolution is, the bigger the image is.

**Frame rate**: The higher the frame rate is, the more fluent the video is. However, more storage room will be taken up.

**Bitrate type**: CBR and VBR are available. CBR (Constant Bit-Rate) means that no matter how what the video resources are, the compression bitrate will be constant as configured. This will not only facilitate the image quality better in a constant bitrate but also help to calculate the capacity of the recording. VBR (Variable Bit-Rate) means that the compression bitrate can be automatically adjusted according to the change of the video resources with the configured bit-rate as the maximum value. This will help to optimize the storage network bandwidth.

**Video Quality**: When VBR is selected, you need to choose image quality. The higher the image quality you choose, the more bitrate will be required.

**Bitrate**: Please set it according to your needs while taking in consideration the bandwidth and storage limits.

**I Frame interval**: It is recommended to use the default value. If the value is too high, the read speed picture group will be slow resulting in video quality loss.

**Video Compression**: Choose between H.265 and H.264. The IPC also support MJPEG on sub-stream resolutions but you need to make sure that the application connected to the camera also supports it.

**Profile**: Baseline, main profile and high profile are optional. Baseline profile is mainly used in interactive applications with low complexity and delay. The main or high profile is mainly used for higher coding requirements.

Send Snapshot: Please select it according to the actual situation.

**Video encode slice split**: If enabled, you may get a more fluent image even when using a low-performance PC.

Watermark: You can set a watermark that will appear on the image.

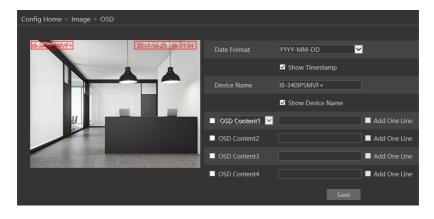
In the next tab we have "Audio" settings as shown below. Only cameras supporting audio in will display this option:

Config Home 🕨	Image 🕨 Video/Audio		
Video Audio			
Audio Encoding	G711A 🔽	Audio Type	

Set the encoding profile as desired and the type of audio input. If LIN (Line) is selected, it means that the audio input is already amplified and the input volume will be set to "low". If MIC (Microphone) will be selected, it means that the audio signal is not amplified and the input volume will be set to "high".

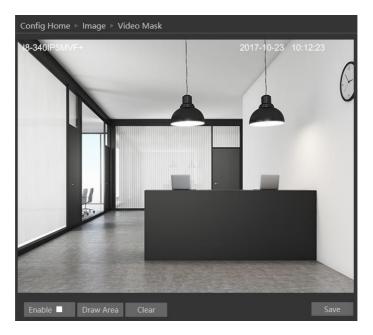
#### 4.2.3 OSD Configuration

Go to "Video Config"  $\rightarrow$  "OSD" menu to display the interface as shown below. You may set the device name, time stamp and custom OSDs here. Drag the time stamp and custom OSD over the image on the left side to set their position. Then press the "Save" button to save the settings.



#### 4.2.4 Video Mask

You can set 4 mask areas at most.



To set up video mask

1. Enable video mask.

- 2. Click "Draw" button and then drag the mouse to draw the video mask area.
- 3. Click "Save" button to save the settings.
- 4. Return to the live to see the following picture.

To clear the video mask:

Go to video mask menu and then click "Clear" button to delete the current video mask area.

#### 4.2.5 ROI Configuration

ROI is used to allocate higher bit-rate on a certain area of the image than other areas To set up ROI

1. Go to Config $\rightarrow$ ROI menu.



- 2. Check "Enable" and then click "Draw" button.
- 3. Drag the mouse to set the ROI area.
- 4. Set the level.
- 5. Click "Save" button to save the settings.

Now, you will see that the selected ROI area is clearer than other areas, especially in low bit-rate settings.

#### 4.2.6 Zoom/Focus\* (Only Applicable Models)

The zoom/focus interface is used for setting the lens of the camera (In MVF Models only). You can also enable "Day/Night Switching focus" which will refocus the lens every time the camera switched from day to night and vice-versa.



"One Key Focus" will automatically focus the lens in one click.

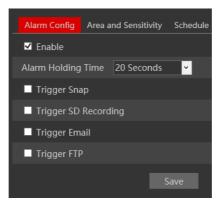
Zoom +/- will manually control the zoom ratio. Focus +/- will manually set the focus of the lens.

#### 4.3 Alarm Configuration

Alarm configuration includes four submenus: Motion Detection, General Fault, Alarm in and Alarm Out.

#### 4.3.1 Motion Detection

Go to "Alarm configuration"  $\rightarrow$  "Motion Detection" to see an interface as below.



The first tab is the "Alarm Config". Enable or disable the alarm and set the alarm holding time. The holding time means that the alarm signal will stay active and no additional alarms will be generated during that time.

Choose the camera's response to the alarm:

Alarm Triggers:							
Trigger Snap	takes a snapshot (SD card must be available)						
Trigger SD Recording*	Initiates video recording over the SD card (SD						
(Supported Models Only)	card must be available)						
Trigger Email	sends an email as configured in the Email						
	section.						
Trigger FTP	send a snapshot as configured in the FTP section						

Next is the "Area and Sensitivity" Tab. Move the "Sensitivity" scroll bar to set up the motion sensitivity and click on "draw" to enable the marking on the image. Once finished, click on "Stop Draw".

Config Home 🕨 Alarm 🕨 Motion Detection						
Alarm Config Area and Sensitivity Schedule						
14-1491PS=PU P	Sensitivity Low – • High					
	Draw Area • Add • Erase					
	Select All Clear All Invert					
	Save					

4. Click "Save" to save the settings. Last is the "Schedule" tab:

																							_	
	Schedu																			÷	) Era	ise (	D A	ld
week	0 1		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	2
	00.00	24.00																					Inpu	
	00000																						23	
	00:00																							
	00:00																						Inpu 23	
	00.00	24:00																				nual 22	Inpu	
Wed.																								
	00:00																						Inpu	
																					Ma			
	00:00	24:00																			Ma	nual	Inpu	
Holida	ay Sche	dule																						
								Add																
								8	9															
	00.00	24:00																			Ма	nual	Inpu	

Set the active alarm time for each of the weekdays. You can also set a holiday schedule and add required dates to it.

#### 4.4 Basic Analytics

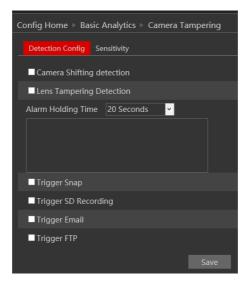
This version offers special video analytics that was designed to detect special scenarios and events. Video analytics detection is based on VMD (Video Motion Detection). v4.2 offers a variety of Analytics: Object Monitoring, Line Crossing, Sterile Area, Camera Tampering, Crowd Density, People Intrusion and People counting.

Note that some features might not be available in specific models. For confirmation please refer to the camera's technical specs.

#### 4.4.1 Camera Tampering

Camera tapering uses special analytics algorithm to detect if the camera was tampered with. This includes: Camera shifting – detects if the camera was shifted from its original location. Lens Tampering – detects if the lens was tampering resulting with a blurry image. Masking detection – detects if the camera view was covered or blocked by any means.

1. Go to "Basic Analytics"→ "Camera Tampering" to get to the interface as shown below:



2. Enable the required detection analytics out of Camera Shifting/Lens Tampering/Masking detection.

3. Set the Alarm response as follows:

#### **IP CAMERA USER MANUAL**

Alarm Triggers:								
Trigger Snap	takes a snapshot (SD card must be available)							
Trigger SD Recording*	Initiates video recording over the SD card (SD							
(Supported Models Only)	card must be available)							
Trigger Email	sends an email as configured in the Email							
	section.							
Trigger FTP	send a snapshot as configured in the FTP section							

- 4. Click "Save" to confirm.
- 5. Go to the sensitivity tab:

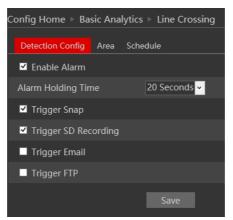
Config Home 🕨 Basic Analytics 🕨 Camera Tampering						
Detection Configuration	Sensitivity					
Sensitivity	38					
		Save				
		Save				

- 6. Set the sensitivity (0 lowest, 100 Highest)
- 7. Click "Save" to confirm.

#### 4.4.2 Line Crossing

Line Crossing Analytics will detect if an object crossed a defined line. The crossing direction can be adjusted.

1. Go to "Basic Analytics"  $\rightarrow$  "Line Crossing" to get to the interface as shown below:



- 2. Enable Alarm if required.
- 4. Set the Alarm response as follows and click "Save" to confirm:

#### **IP CAMERA USER MANUAL**

Alarm Triggers:							
Trigger Snap	takes a snapshot (SD card must be available)						
Trigger SD Recording*	Initiates video recording over the SD card (SD						
(Supported Models Only)	card must be available)						
Trigger Email	sends an email as configured in the Email						
	section.						
Trigger FTP	send a snapshot as configured in the FTP section						

5. Now you will have to set the detection are (lines). Click on the "Area" tab to get to the interface shown below.

Config Home 🕨 Basic Analytics 🖗 Line Crossing								
Detection Config Area Schedul	le							
18-340IP5MVF+	2017-10-23 10:12:23	Cordon		<b>~</b>				
	0	Direction	A<-B	~				
	1 million (1997)							
в								
Stop Draw Clear				Save				

6. Click on "Draw Area".

7. Draw the line. The length of the line should be as long as possible to increase the detection efficiency.

8. Set the crossing direction. The "A" and "B" sides will reflect on the image on the left. The available options are.  $A \rightarrow B$  – Crossing from A side to B side,  $B \rightarrow A$  - Crossing from B side to A side, A<->B – Crossing from any side to any side.

9. Click "Save" to confirm the settings.

10. You can set up to 4 lines. If you wish to set additional lines, change the cordon number and repeat stages 6-9.

11. Next, you will need to set the schedule. Click on the "Schedule" tab to get the following interface:

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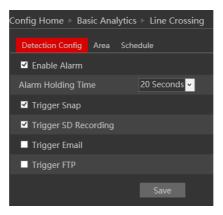
#### **IP CAMERA USER MANUAL**

<u>Config</u>	<u>Home</u> ⊧	Bas	ic A	nal	ytics	5 ⊩	Оb	ject∣	Mor	nitor	ing									
Dete	tion Con	fig																		
																•	) Era	ise 🕻	) A	ld
Sun.																				
	00:00-24																		Inpu	
Mon.																				
WON.	00:00-24																		Inpu	
Tue.																				
	00:00-24																		Inpu	
Wed.																				
weu.	00:00-24																		Inpu	
Thu.																				
	00:00-24																Ma	nual	Inpu	
	00:00-24	4:00																	Inpu	
Sat.	00:00-24	\$:00															Ma	nual	Inpu	t
Holida	ıy Schedi	ıle																		
	Date	10-2						Ado Dele												
							7	<sup>8</sup>	te 9											
	00:00-24	4:00															Ma	nual	Inpu	t
																		S	ave	

12. Set the active alarm time for each of the weekdays. You can also set a holiday schedule and add required dates to it. The holiday schedule overtakes the normal schedule.

#### 4.4.3 Sterile Area

Sterile Area Analytics will detect if any object entered the defined area. 1. Go to "Basic Analytics"→ "Sterile Area" to get to the interface as shown below:

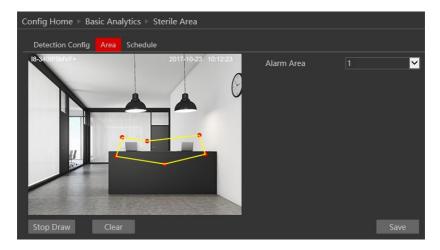


- 2. Enable Alarm if required.
- 3. Set the Alarm response as follows and click "Save" to confirm:

#### **IP CAMERA USER MANUAL**

Alarm Triggers:							
Trigger Snap	takes a snapshot (SD card must be available)						
Trigger SD Recording*	Initiates video recording over the SD card (SD						
(Supported Models Only)	card must be available)						
Trigger Email	sends an email as configured in the Email						
	section.						
Trigger FTP	send a snapshot as configured in the FTP section						

5. Now you will have to set the detection area. Click on the "Area" tab to get to the interface shown below.



6. Click on "Draw Area".

7. Draw the area. Drawing the area is done by clicking on the corners of the area you wish to monitor. The maximum points for the polygon are 6. Once you marked the  $6^{th}$  corner, the camera will automatically connect it with the  $1^{st}$  point and close the area.

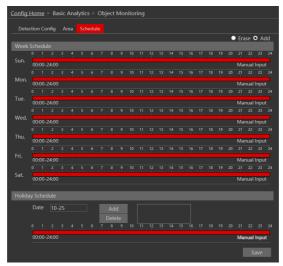
8. Click "Save" to confirm the settings.

9. You can set up to 4 areas. If you wish to set additional areas, change the alarm area number and repeat stages 6-8.

10. Next, you will need to set the schedule. Click on the "Schedule" tab to get the following interface:

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#### **IP CAMERA USER MANUAL**



11. Set the active alarm time for each of the weekdays. You can also set a holiday schedule and add required dates to it. The holiday schedule overtakes the normal schedule.

#### 4.4.4 Analytics and Live Display.

Once enabled, the Analytics will appear on the camera's live interface. It will not appear on any other device connected to the camera such as NVR or CMS.

#### 4.5 Network Configuration

Network configuration includes eight submenus: Port, IP Address, Server Configuration, IP Notify, DDNS Config, RTSP, UPnP, Mail Setting, and FTP.

#### 4.5.1 TCP/IP

Go to "Network"  $\rightarrow$  "TCP IP" tab to see the interface shown below. The first and default tab is IPv4 Protocol. There are two options for IP setup: obtain an IP address automatically by DHCP or a defined IP address. You may choose one of the options as required.

Config Home ▹ Network ▷ TCP/IP									
IPv4 IPv6 PPPoE Config IP Change Notification Config									
• Obtain an IP address automatically									
Use the following	Use the following IP address								
IP Address	192.168.226.201	Test							
Subnet Mask	255.255.255.0								
Gateway	192.168.226.1								
Preferred DNS Server	192.168.226.1								
Alternate DNS Server	8.8.8.8								
	Save								

**Automatic IP Assignment:** Use "Obtain an IP address automatically" for the camera to communicate with an available DHCP server that will assign the camera with an IP address automatically.

#### **Please note:**

- 1) In order for the DHCP mode to work, you must have a DHCP server on the LAN.
- 2) Using DHCP for permanent installations is not advisable as the IP Address might change after a while and cause the camera to be unreachable.

**Manual IP Assignment:** If you wish to set static IP addresses, choose "Use the following IP Address", set the range of IP addresses you wish to assign (First and last address), set the gateway and subnet mask and click on batch set. Wait for a few moments until the IP manager will configure the cameras. After configuration, the IP addresses of the cameras will refresh automatically.

#### Please note:

1) The selected IP address must be available.

The next tab is IPv6: Config Home > Network > TCP/IP IPv4 IPv6 PPPoE Config IP Change Notification Config Obtain an IP address automatically Use the following IP address IP Address fe80::20c:29ff:fe37:3729 Subnet Prefix Length 64 Gateway fe80::20c:29ff:fe37:1 Save

If you need to use IPv6, configure it in the same method as described for IPv4.

The next tab is PPPoE:

Config Home 🕨 Network 🕨 TCP/IP							
IPv4 IPv6	PPPoE Config	IP Change Notification Config					
Enable							
User Name							
Password							
		Save					

For PPPoE, the user is required to manually input the username and password for dial-up internet. After saving the username/password information set up IP address change notification. Last, connect with Modem and the device will dial-up internet automatically.

Press the "Save" button to save the settings.

The next tab is "IP Change Notification Config": If you have used DHCP and you need to be notified that the IP Address assigned to the camera was changed, enable it and set Email or FTP for the notification process.

#### 4.5.2 Port

1. Go to "Network"  $\rightarrow$  "Port" to see the interface as shown below.

Config Home ▹ Network ▷ Advanced										
Port Server	DDNS 802.	X RTSP	UPnP	Email	FTP	HTTPS	P2P	QoS		
HTTP Port	80									
HTTPS Port	443									
Data Port	9008									
RTSP Port	554									
			Save							

- 2. Input port number for IE access in the "HTTP Port" textbox.
- 3. Input the port number for audio & video transmission in the "Data Port" textbox.
- 4. Set the RTSP port for video/audio transmission over RTSP

#### 4.5.3 Server Configuration

Go to "Network"  $\rightarrow$  "Server".

Port Server	DDNS	802.1X	RTSP	UPnP	Email	FTP	HTTPS	P2P	QoS
Enable									
Server Port	20	09							
Server Address									
Device ID	1								
				Save					

This section refers to "Auto Report Server". Enable it if required.

Auto report server will make the camera to report back to the defined server using the port 2009.

Set the port (default port is 2009. It is advisable not to change it.) Set the server address (usually it is the CMS address which needs to be a static address). Set a unique device ID. Each of the devices using auto server report should have its own ID.

The Camera will report back to the defined server its current IP using port 2009.

#### 4.5.4 DDNS Configuration

1. Enter into "Network"  $\rightarrow$  "DDNS" tab as below:

Config Home ▹ Network ▷ Advanced									
Port			SNMP			UPnP	Email		QoS
☑ Ena	ble								
Server		m	intdns		~				
Server	Address								
User N									
Passwo	ord								
Domair									
					Save				

The default choice is Mint-Server which is Provision-ISR's free Domain name Registration (http://www.provision-isr-dns.com)

Note: DDNS is used to register for a hostname with DDNS username and password.

**Provision ISR** now allows you to use our mint DDNS server in order to create a virtual address for your security device on the internet. Each account is limited to 35 different addresses using your preferred domain name address instead of using IP addresses. Follow the steps below to register your device's name and to configure your DVR to use Provision ISR's Mint DDNS server.

#### (a) <u>To register a domain with Provision-ISR DDNS server follow these steps:</u>

 Visit our website: <u>http://provision-isr-dns.com</u> and register for a domain name by clicking "Registration"

PROVISION	<u>I</u> (R
Logon Registration	Welcome to Provision-isr DDNS Service
	DDNS account creation.

 Fill in the registration form, then click "Submit"

NEW USER REGIST	RATION
EMAIL ADDRESS	[]
PASSWORD	@
PASSWORD CONFIRM	
FIRST NAME	
LAST NAME	
SECURITY QUESTION.	My first phone number.
ANSWER	
CONFIRM YOU'RE HUMAN	$3 \pm 9 =$

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 Fill in the hostname you want to apply for and press "Request Domain" (for example "home")



 If there is no problem with the

domain registration you will see the following message: "Your domain was successfully created."

If you do not see this message, the domain name you requested is already in use and you will be requested to provide an alternate domain name (please note: the *domain name* is sometimes called *hostname*).

You can create up to 35 domain records under a single account

<b>PROVISION</b>	IŚR
Now you can see!	
	M. Daursing
User Settings Domains	My Domains Your domain names are listed below. Choose create new domain to add additiona
Logout	Your domain was successfully created.

The domain name is added at the beginning of your DVR's address, for example, the domain "*home*" will appear at **home.provision-isr-dns.com**.

Press the "Save" button to save the settings.

#### 4.5.5 SNMP

5)

Simple Network Management Protocol (SNMP) is a popular protocol for network management. It is used for collecting information from and configuring, network devices, such as servers, printers, hubs, switches, and routers on an Internet Protocol (IP) network. In order to Enable and work with SNMP, you need that the switch or another server on the network will support this protocol as well. Though our IPC fully supports SNMP will not explain how to configure it in this manual.

#### 4.5.6 802.1X

The 802.1X standard is designed to enhance the security of wireless and local area networks (WLANs) that follow the IEEE 802.11 standard. 802.1X provides an authentication framework for wireless LANs, allowing a user to be authenticated by a central authority.

#### 4.5.7 RTSP

RTSP is used to stream video/audio using the shared protocol. v4.2 is also supporting RTSP using Multicast protocol.

Go to "Network"  $\rightarrow$  "RTSP" interface as shown below.

Config Home	Networ	k ⊳ Adv	anced					
Port Server	DDNS	SNMP	802.1X	RTSP	UPnP	Email	FTP	QoS
✓ Enable								
Port	554							
RTSP Address	rtsp://IP	or doma	in name;	port/pro	ofile1			
	rtsp://IP	or doma	in name;	port/pro	ofile2			
	rtsp://IP	or doma	in name;	port/pro	ofile3			
Multicast add	ress							
Main stream	239.0.0				5	0554		
Sub stream	239.0.0				5	1554		
Third stream	239.0.0				5	2554		
Audio	239.0.0				5	3554		
Allow ano	nymous Ic	ogin (No	username	e or pass		equired)		
				Sav	ve			

1. Enable the RTSP if required.

2. RTSP Port: Access Port of the streaming media. The default port is 554.

3. RTSP Address: each of the streams have a unique RTSP address. Input the desired address into your RTSP player.

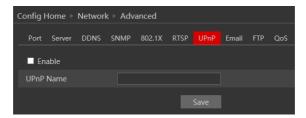
Notice that the camera also support multicast addresses that can be used as well for supporting players.

4. Enabling "Allow anonymous login" will authorize RTSP connection without the need for username/password.

5. Click "Save" to confirm and save settings.

#### 4.5.8 UPnP

Go to "Network"  $\rightarrow$  "UPnP" interface as shown below. Select "Enable UPnP" and then input friendly name.



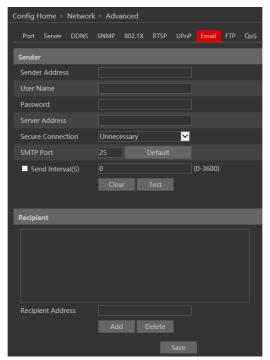
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Then double-click "Network" icon on the desktop of the PC to see an icon with the name and IP address of the camera. You may quickly access the device by double-clicking this icon.

# 4.5.9 Email Setting

Go to "Network"  $\rightarrow$  "Email" interface.



## The input fields are as follows:

Field	Meaning
Sender Address	Sender's e-mail address
User Name	The username of the Email account
Password	The password for the Email account
Server Address	The SMTP/Outgoing Email server address
Secure Connection	Choose between Unnecessary/SSL/TLS
SMTP Port	The SMTP port. The default port will be used according to the secure connection choice but can be edited manually if required.
Send Intervals	The minimum time duration between 2 Email that will be sent by the system,
Recipient Address	The email addresses that Emails generated by the system will be sent to.

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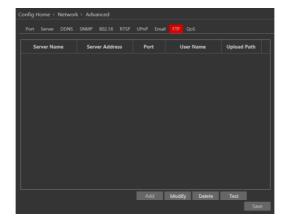
After all parameters are properly set up, you can click "Test" to confirm that the system can connect to the email server with the provided details. If an email sent successful, a "Test Successful" window will pop up, if not, you should try other email addresses or check and correct the settings.

In order to input new mail recipient, input the recipient address and click on "Add". The new address will be added to the recipient list box.

**Notice:** If you change the static IP into PPPoE and select mailbox, there will be an e-mail sent to your mailbox for notifying a new IP address.

# 4.5.10 FTP

Go to "Network"  $\rightarrow$  "FTP" interface as shown below.



To add a new FTP server click on "Add" and input the FTP server's server name, address, port number, username, password, and upload path, click OK to confirm the setting.

Add FTP		×
	Example:/Dir/folder 21	Anonymous
l	OK Cancel	

Click on "Modify" to edit the information of the FTP server Click on "Delete" to delete the FTP server Click on "Test" to confirm the setting and availability of the FTP server.

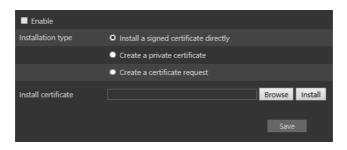
# 4.5.1 HTTPS

HTTPS (Secured HTTP) is used to establish a secured and encrypted connection between the camera and the client (IE in our case). This will prevent from anyone on the network to be able to get information packets and other information by sniffing the network.

The HTTPS must have an SSL certificate in order to work properly. An authentic certificate must be created by an authorized SSL certificate provider. This will confirm its security and validity. (The internet browser will authenticate the certificate when connecting to the camera).

This is a brief explanation about the SSL certificate and HTTPS connection.

Go to "Network"  $\rightarrow$  "HTTPS". interface as shown below. Enable the HTTPS if required. (Enabling HTTPS completely disables HTTP connection).



1.If you already have an SSL certificate in hand, choose "Install a signed certificate directly". Click on "Browse" and choose your certificate. Click on "Install", wait for the procedure to complete and click on "Save"

2. If you wish to use basic HTTPS connection, click on "Create a private certificate". The

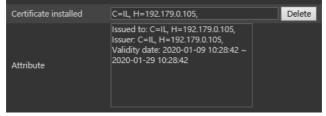
interface will update to: Click on "Create". The interface below will appear.

Create a private cert	ificate		×
Country Domain Validity date Password Province/state Region Organization Unit Email			Day
Linan	ОК	Cancel	

Input the details (The country field is set by 2 captial letters. For example for Israel the user should input "IL"). The fields marked with \* are mendatory. All the rest are optional.

Click on "OK". Once the procedure is finished, the SSL certificate will be automatically installed as follows.

<u>Please note:</u> Using this method will display an error message by the browser everytime you connect to the camera, as the camera is not recognized as a certified SSL certificate issuer.



3. If you wish to create an SSL certificate with an issuer of your choice, choose "Create a

Create a certificate request Create Download Delete

certificate request". The interface will update to: Click on "Create". The interface below will appear.

Create a certificate	×			
Country				
Domain				
Password				
Province/state				
Region				
Organization				
Unit				
Email				
	OK	Cancel		

Input the details (The country field is set by 2 captial letters. For example for Israel the user should input "IL"). The fields marked with \* are mendatory. All the rest are optional. Click on "OK". The interface will update.

Create a certificate request C=IL, H=192.168.0.12,	Download	Delete

Click on "Download". A file called "svrCert.pem" will be downloaded. Submit this file to the certificate issuer when required. When you receive the final certificate from the issuer, install it by choosing "Install a signed certificate directly.

# 4.5.2 QoS

Quality of Service (QoS) is an advanced feature that prioritizes internet traffic for applications to minimize the impact of busy bandwidth. It must be supported by the switch/router being used.

# 4.6 Security

Security configuration includes three submenus: User Settings, Online Users, and Block & Allow lists.

# 4.6.1 User

Go to "Network"  $\rightarrow$  "User" to access the following interface.

Add	Modify Delete		
Index	User Name	User Type	Bind MAC
1			

## Adding a user:

Click on the "Add" button to pop up the "Add user" dialog box.

Input the username, password and confirm the password.

Set the user type. 3 user types are available:

- A. Administrator Can perform all action and settings on the camera.
- B. Advanced user Can view and configure the camera excluding the "User Access" section.
- C. Normal User Can only view the live image and cannot configure.

Add User		×
User Name Password Confirm Password		
User Type	Administrator	~
Bind MAC	00:00:00:00:00:00	
	ОК	Cancel

At this stage, you can also bind a MAC address for the user. This means that this user will only be able to connect from a single pre-defined device and his access will be denied if he will try to connect from any other device.

Click on "OK" and "Save"

## Modify user:

Select the user you wish to modify and click on the "Modify" button. A modification window will pop up as shown below.

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E	dit User			×	
	<ul> <li>Modify Password</li> <li>User Name</li> <li>Old Password</li> <li>New Password</li> <li>Confirm Password</li> </ul>	admin			
	Bind MAC	00:00:00:0	00:00:00 OK	Cancel	

You can change the username if required. If you wish to edit the password of the user, tick "modify password" and input the old password, new password, and confirmation of the new password.

You can also bind a MAC address for the user as explained in the "Add user" section. Click "OK" to save.

#### **Delete user:**

Select the user you wish to delete and click on the "Delete" button. A confirmation prompt will pop up. Click "Ok" to confirm.

Note: The default user "admin" cannot be deleted.

## 4.6.2 Online Users

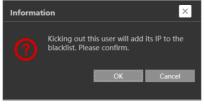
"Online users" section will allow you to view users who are currently connected to the camera. Administrator level users can also kick out other users who are currently connected to the camera.

Go to "Network"  $\rightarrow$  "Online Users" to access the following interface.

Config Home > Security > Online User					
Index	Client Address	Port	User Name	User Type	
1					Kick Out
2					

You can view the IP address, port, username and user type used for the connection.

The "Kick Out" button will kick out the selected user and input his IP address to the blacklist. Click on it for the relevant user and confirm the prompt message.



```
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```

**Important Note:** once the user is kicked out, the IP address used for connection will be blacklisted. Therefore, the device used for connection will not be able to connect to the camera until the IP address will be manually removed from the blacklist.

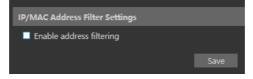
# 4.6.3 Block and Allow Lists

"Block and Allow" lists allow the user to create lists of IP/MAC addresses that will be allowed or denied for connection.

Once a "Block" list is created, all devices except the blocked devices will be allowed to connect to the camera.

Once an "Allow" list is created, all devices except the allowed devices will be blocked from connecting to the camera.

Go to "Network"  $\rightarrow$  "Block and Allow Lists" to access the following interface.



The lists can be based on IP Only / MAC only / Both IP and MAC together.

• Block the following address • Allo	ow the following address	
	Add	
	Delete	
	0.0.0.0	O IPv4 O IPv6 O MAC
	Save	

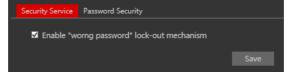
Enable the filtering you wish to activate. For the demonstration, we will enable both IP and MAC filtering, so the instructions below are true for both.

- 1) Choose the type of list you wish to create (block or allow)
- 2) Input the IP/MAC address you wish to add to the list
- 3) Set whether the input is IPv4/IPv6/MAC address
- 4) Click on add.
- 5) If you wish to add more than one address, repeat stages 1-4
- 6) Once finished, click "Save" to confirm, save the settings and enable the lists.

# 4.6.4 Security Management

"Security Management" Allows the user to enhance the device security by adding protections layers and rules.

"Security Service" enables a mechanism that locks the IPC to incoming connection after 3 wring attempts. Releasing the camera from a locked state is by waiting the lock duration or hard rebooting the <u>camera</u>. This mechanism protects against "Brute Force" attack.



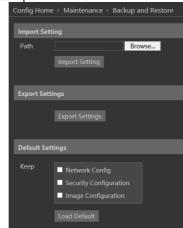
# 4.7 Maintenance

Maintenance includes 4 submenus: Backup & Restore, Reboot, Upgrade and Operation log.

# 4.7.1 Configure Backup & Restore

Backup and restore are used to save the camera's configuration on a PC and use it in case the camera's configuration was changed or when you wish to change the configuration of several cameras to be uniformed. This section also allows you to restore the camera's setting to factory default with some exceptions.

Go to "Maintenance"→" Backup and Restore".



• Importing Settings: If you have a configuration file and you wish to import it to the camera, click on "browse" and choose the relevant config file. After choosing the file click on "Import settings" and wait for the process to finish.

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- Exporting settings: If you wish to export the configuration settings of the camera click on "Export". Choose the location on your PC and set the file name. Click on "OK" to save the file on the desired location.
- Loading factory default: If for any reason you wish to restore your camera settings to factory default, you can use the "Load Default" button. Notice that you can mark some configuration that will be saved:
  - $\circ\,$  Network Config: Will save all the network section configuration
  - $\circ\,$  Security Configuration: Will save all the security section configuration.
  - $\circ\,$  Image configuration: Will save the image section configuration.

# 4.7.2 Reboot Device

Go to "Maintenance"  $\rightarrow$  "Reboot" to see the interface as shown below.

Config	g Home ▹ Maintenance ▷ Reboot
R	eboot
	Reboot
ι	Updating takes 1-5 minutes. Once succesful the browser will reconnect automatically.
Τ	imed Reboot
I	Time Settings
	Save

In order to reboot the IPC click on the reboot "Reboot" button and confirm the pop up prompt message, then wait for the reboot process to finish.

You can also set a scheduled reboot. Tick the "Time Settings" and set the time period and time for the reboot. You can choose a day of the week when the reboot will automatically take place or you can set it to happen on a daily basis. The reboot will occur on the specified day and time.

Timed Reboot		
Time Settings		
Week	Daily	~
Time	15:07	
	Save	

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# 4.7.3 Upgrade

Go to "Maintenance"  $\rightarrow$  "Update" to open the interface as shown below.

Config Home ► Maintenance ► Upgrade								
Up	prade System							
Pa	h			Browse				
		Upgrade						

- 1. Click "Browse" button to select the upgrade file.
- 2. Click "Upgrade" button to start the upgrading process of the IPC.
- 3. The device will restart automatically once completed.
- 4. Depending on the update release note, the IPC configuration might reset.

## Notice:

- 1) You must not disconnect to PC or close the IPC during the upgrade process to prevent permanent damage to the camera.
- 2) The camera update file is \*\*\*. TAR. the "TAR" file should not be extracted.

# 5 Mobile Surveillance

This IPC supports mobile surveillance from internet browsers and iOS/Android mobile phones using Provision-ISR's application "Provision Cam2"

# 5.1 Network Configuration

## • Access the device via LAN

Step 1: Connect device via a wireless router. Then checkmark DHCP both in router and device to automatically acquire IP address or enter the IP address manually.
Step 2: Use WIFI function on your mobile phone to connect the wireless router.
Note: Make sure your phone network and device network are on the same network segment on LAN.

Step 3: Add the IP address and port in the mobile phone surveillance client.

#### Access the device via 3G network

**Step 1:** Set the device network. Please enter Main Menu $\rightarrow$ Setup $\rightarrow$ Network tab.

If you use PPPoE to connect the device, please enable PPPoE and input username and password received from your ISP in network tab. Then click "Apply". You can enter Main Menu $\rightarrow$ Information $\rightarrow$ Network tab to see the IP address. If you want to utilize dynamic domain name, please apply for a domain name in a DNS server supported by the device.

► If you have a static WAN IP address, please enter Main Menu→Setup→Network tab to input your IP address, gateway, and port.

▶ If you use LAN IP address, please enter Main Menu→Setup→Network tab to input your IP address, gateway and port and then forward IP address and port number in virtual server setup of the router or virtual server(If you have enabled the UPnP function in both the device and router, you can skip this step). Port forwarding setting may be different in different routers and servers. Please refer to the router's manual for details. After you forward your LAN IP address and port, please check the WAN IP address of the router or server.

Step 2: Add the WAN IP address or domain name in mobile phone surveillance client.

# 6 Q & A

## 1. Q: How to find my password if I forget it?

A: The default username is "admin" and the default password is "123456".

If you have changed the password and you can't remember it, press and hold the physical reset button on the camera (If available) or use the IP Manager to reset the camera to factory default as follows:

- A. Open the IP Manager and locate the required camera.
- B. Click on the camera line in the IP manager.
- C. Input the MAC address of the camera into the restore window (The MAC address of the camera will appear in the op part of it:

Refresh ¥ 🕥								
Device Name	Device Type	Product Model	IP Address	Software Version	Status	Status Desc	Disconnect	
					0	Disconn		
	ONVIF		192.168.2.102					
Device Name	NVR	NVR5-641600(2U)	192.168.2.115	1.3.3				
Device Name	NVR	TD-2704TS-HP	192.168.2.131	1.3.2				
Device Name	NVR	NVR5-8200X+(MM)	192.168.2.127	1.3.3			Mac addr 00 :18 :AE :00 :27	
I1-280IP5S36	IPC	FEI-360IP5	192.168.2.116	4.1.1.0(16447)			Mac addr 00 - 16 - AE - 00 - 27	
IPC	IPC	TD-9649E2	192.168.2.112	4.1.3.0(11352)			: : : : : Resto	
DI-350IP5SMVF	IPC	DI-350IP5SMVF	192.168.2.106	4.2.0.0(17419)			Tip: Enter ip: device mac add; and	

- D. Click on "Restore", and wait for the message "Device restored successfully"
- E. Disconnect the camera from power and reconnect it within 30 seconds.
- F. The camera will boot up in factory default.

Default IP: 192.168.226.201

User name: admin

Password: 123456

#### 2. Q: The IPC fails to connect devices through IE browser, why?

A: Network cable is not connected well. Please check the connection and make sure it is connected securely to the camera.

B: IP was not assigned to an IP.

C: Web port number has been revised: contact an administrator or use the IP manager to get the correct port number.

D: If none of the above worked, recover the IPC's default setting by using the physical reset button on the camera (Press and hold if available) or using the IP Manager to reset the camera to factory default.

Note: Default IP: 192.168.226.201, mask number: 255.255.255.0

## 3. Q: IP tool cannot search for devices, why?

A: It may be caused by the anti-virus/firewall software on your computer. Please disable it and try to search device again.

#### 4. Q: IE cannot download ActiveX control. How can I do?

a. Your IE browser probably set to block ActiveX controls. Please perform the following steps:

① Open IE browser. Click Tools-----Internet Options....



- 2 Select Security-----Custom Level....Refer to Fig 4-1
- ③ Enable all the sub-options under "ActiveX controls and plug-ins". Refer to Fig 4-2

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Internet Options	Security Settings	? 🗙
General       Security       Privacy       Content       Connections       Programs       Advanced         Select a Web content zone to specify its security settings.       Image: Content zone to specify its security settings.       Image: Content zone to specify its security settings.       Image: Content zone to specify its security settings.         Internet       Local intranet       Trusted sites       Restricted sites         Internet       This zone contains all Web sites you haven't placed in other zones       Sites         Security level for this zone       Sites	Settings: Enable Download signed ActiveX controls Disable Enable Prompt Download unsigned ActiveX controls Disable Prompt Prompt Prompt Prompt Initialize and script ActiveX controls not marked as safe Disable Disable	
Custom settings. - To change the settings, click Custom Level. - To use the recommended settings, click Default Level Custom Level Default Level OK Cancel Apply	Reset to: Medium Reset	>
Fig 4-1	Fig 4-2	

(4) Click ok to finish setup.

b. Other plug-ins or anti-virus blocks ActiveX. Please uninstall or close them.

# 5. Q: No sound can be heard, why?

A: Audio input device was not connected. Please connect and try again.

B: Audio was not enabled in the live view interface. Please check the AUDIO item to enable this function.