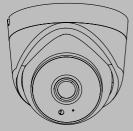
Panasonic

Model No.: PI-DNA3PWA

Operating Instructions

Dome IP Camera



Information on hazardous constituents as specified in rule 16(1) in electrical and electronic equipment.

Declaration of Conformity with the requirements of the E-waste (Management) Amendment Rules 2022 with the rule 16(1) limits with respect to lead, mercury, cadmium, hexavalent chromium, polybrominated, biphenyls, polybrominated biphenyls, polybrominated diphenyl ethers.

The content of hazardous substance with the exemption of the applications listed in SCHEDULE II of the E-Waste (management) Amendment Rules 2023.

- 1. Lead(Pb)- not over 0.1% by weight;
- 2. Cadmium(Cd)- not over 0.01% by weight;
- 3. Mercury(Hg)- not over 0.1% by weight;
- 4. Hexavalent chromium(Cr6+)- not over 0.1% by weight;
- 5. Polybrominated biphenyls(PBBs) not over 0.1% by weight;
- 6. Polybrominated diphenyl ethers(PBDEs)- not over 0.1% by weight;



For the purpose of recycling to facilitate effective utilization of Resources, please return this product to a nearby authorised collection center, registered dismantler or recycler, or Panasonic service center when disposing of this product.

Please see the Panasonic website for further information on collection centers, etc. or call the customer care toll free number.

Website: https://www.panasonic.com/in/corporate/ewaste-management.html Customer Care Number (Toll Free): 18004190373 E-mail: helpline@in.panasonic.com

Thank you for purchasing this Panasonic product. Please read these instructions carefully before operating this product and retain them for future reference.

The images shown in this manual are for illustrative purposes only.

English

Important Safeguards and Warnings

- 1. Please read these instructions carefully.
- 2. Please heed all warnings.
- 3. Please follow all instructions.
- 4. Do not use this apparatus near water.
- 5. Please clean only with dry cloth.
- Do not block any ventilation openings, install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10. Only use attachments/ accessories specified by the manufacturer.
- 11. Use with cart, stand, tripod, bracket, or table only as specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 12. <u>M</u> Unplug this apparatus during lighting storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel.
- Do use a reliable and secure network connection to avoid interruptions in the camera's feed.
- Do ensure good Wi-Fi connectivity/ signal (2.4Ghz), in case camera is used in Wi-Fi mode.
- Don't tamper with the camera's internal components or modify its firmware without proper knowledge or authorization.

Disclaimer

- We strongly recommend you to set a difficult password immediately after the first log in to ensure account security and don't share it with unauthorized personnel.
- Password Characters: Password must contain at least 8 to 16 characters comprising all three elements: alphabet, special character & digit.
- The illustrations in this manual are for reference only and may vary depending on the version or model. The screenshots in this manual may have been customized to meet specific requirements and user preferences. As a result, some of the examples and functions featured may differ from those displayed on your screen / monitor.
- We have put in our best efforts to verify the correctness and integrity of the contents in this manual, but no statement, information / recommendation in this manual shall constitute formal guarantee of any kind, expressed or implied. We shall not be held responsible for any technical or typographical errors in this manual.
- Video and audio surveillance can be regulated by laws that vary from country to country. Check the law in your local region before using this product for surveillance purposes. We shall not be held responsible for any consequences resulting from illegal operations of the device.
- Use of this product, the manual and the subsequent result shall be entirely the user's own responsibility. In no event shall Panasonic be liable for any special, consequential, incidental, or indirect damages, including, among others, damages for loss of business profits, business interruption, or loss of

data or documentation, or product malfunction or information leakage caused by cyber-attack, hacking or virus in connection with the use of his product.

- The contents of this manual are subject to change without prior notice. Regular updates can be added to the new version of this manual.
- Due to uncertainties such as physical environment, discrepancy may exist between the actual values and reference values provided in this manual. The ultimate right to interpretation resides with our company.

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Product Function

- 1. For Indoor use only.
- 2. PoE enabled.
- 3. Encode codec (H.264, H.265 & H.265+)
- 4. Full HD Video Quality (2304x1296) 3M.
- 5. Built-in microphone.
- 6. Built-in Wi-Fi. (2.4Ghz)
- 7. ONVIF Compliance.
- 8. Dual-Streaming.
- 9. Supports IR.
- 10. Supports Privacy masking. (4 Zone)
- 11. This IP camera can display videos in different resolutions and qualities.
- 12. When an event occurs, the related text notification is sent to the email address registered by a user.
- 13. Web Browser-based Monitoring using the Internet web browser to display the image in a local network environment.
- User can access this IP camera on mobile application & desktop application (VMS).
- 15. Tampering Detection Detects tempering attempts on video monitoring.
- 16. Motion Detection Detects motion from the camera's video input.

- Video Blind Detection Detect if camera lens is covered/blocked more than 60%.
- Abnormality Detection Detects abnormality alarms like IP Address Conflict, Network disconnect etc.
- 19. Sound Detection Detects abnormal sound from the camera video input.
- 20. Human Detection Detects human movement from the camera video input.
- 21. Analytic Detect area intrusion & line crossing event in the defined region.

Recommended PC Specifications

- 1. CPU: Intel Core i5 2.8 GHz or higher
- 2. RAM: 4GB or higher
- 3. Supported OS: Windows 10 & above.
- 4. Supported Browser: Microsoft Internet Explorer. (Fully supported for all functionalities)
- 5. Mozilla Firefox & Google Chrome supported with limited functionality.
- 6. Apple Safari is supported with limited functionality.

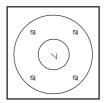
Accessories



RJ45 Cap with sealing Ring



Screw & Wall Plug (x3)



Mounting Sticker

Panasonic Life S	olutions India Pvt. Ltd. CERTIFICATE OF WARRANTY	Customer Copy Sr.No.A-
Dear Customer, Thanks you for bu	ying this Panasonic product. This card entitles you to enjoy TYear warran	ity on the product.
Product	4	
Model No.	;	
Customer Name		
Address		
Tel. No.		
Date of Purchase		
Invoice No.		
Dealer Name and	Address	

Warranty Card



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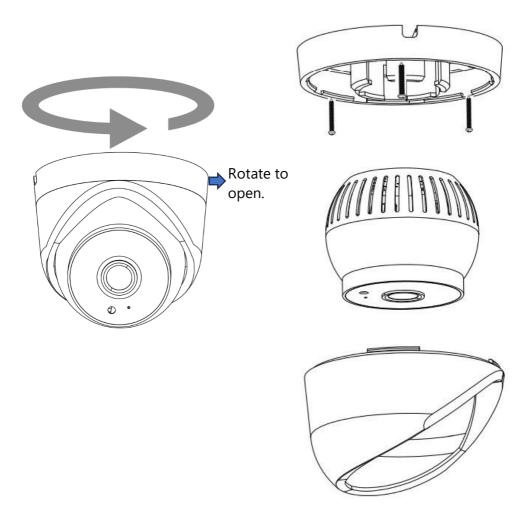
CAUTION: • De not most any foreign ethern. First or shortwal their may be not source or any foreign-theory, such as multi-deputy, none marks have "You the power of meradiantly and context-put/field service percenmerons."

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Quick Installation Guide

Appearance



Installation Precautions

Note: This camera is only for indoor usage.

- This device should be mounted and maintained only by an experienced professional. If in doubt, consult the dealer.
- Before mounting, determine the suitable location. The device must be fixed to a wooden or masonry/concrete wall or ceiling using fasteners that are appropriate for the mounting surface. Do not install on drywalls, wallboards, or thin plywood. The mounting surface must be capable of supporting the weight of the device.
- Do not drill into any pipes or power lines beneath the surface during mounting holes preparation. Use voltage/metal detector before drilling any holes to eliminate any such potential risks.
- 4. Do not hang anything on the device.
- 5. Mount the device to monitor the most vulnerable areas of your home, such as front elevations, side access and rear entrance points.
- It is suggested to mount the device 2.5 m to 4 m above the ground for the most visibility and the maximum detection range.
- Do not place the device near high voltage wires or other sources of electrical interference. Electrical interference may degrade the quality of the signal.

Installation Instructions

- 1. Place the mounting base of camera onto the selected location.
- 2. Using the template provided, Drill the 3 holes with a 6 mm drill bit. Insert the wall plugs for concrete walls.
- 3. Tuck the cable into the slot on the side of the wall bracket.
- 4. Fix the camera dome in mounting bracket by rotating it.
- 5. Adjust the camera angle as per the requirement, so that the camera faces towards the monitoring object.

1. Powering and Networking

- 1. Use PoE i.e., compliant with IEEE802.3af protocol.
- 2. Connect the PoE switch and cameras PoE connector.
- 3. Switch on the PoE switch.
- 4. Default IP address of the camera is 192.168.1.108
- 5. Connect the PC on the PoE switch & configure PC IP address in the same series as IP camera.
- 6. Launch an internet browser on the local PC.
- 7. Enter the IP address of the camera in the address bar for the browser.
- Enter username and password (Default username: admin & password: admin123) to login to the IP camera.



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2. Active X Installation Procedure

Install Active-x

1. Input username and password to log in (When first access for live view it is recommended to download the Active-X.

			- 0
Cogin	/192.168.1.108/doc/page/login.html	+ Ö Search_	P• @☆@
Login	^ U		
		Panasonic	
		Fallasullic	
		Lanouage English V	
		Language <mark>English v</mark> Usemame	
		Password	
		•LAN OWAN	
		Login Download ActiveX	

2. Choose a language then enter the username and password to log in, then click on "Download ActiveX" to download the ActiveX setup file.

Panasonic

Language	English
Username	
Password	0
	•LAN OWAN
	Login Download ActiveX

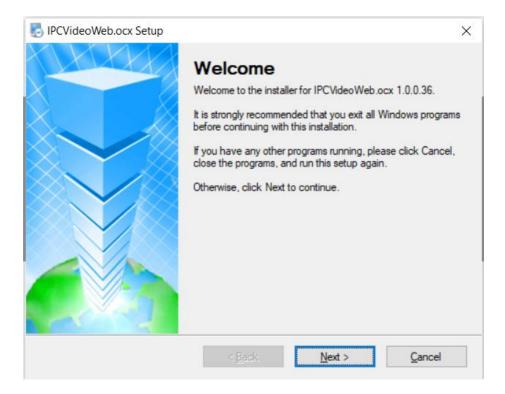
3. Then click on save button as shown below.

			×
Do you want to run or save TSIPCWebClient_EN_SetUp.exe (3.49 MB) from webeng.topscloud.net?			
🕐 This type of file could harm your computer.	Run	Save 🔻	Cancel

4. Then click on Run button.



3. Camera Configuration & Setup



• IP Address configuration.

- Static Default IP address of the IP camera is 192.168.1.108, we recommend changing the default IP address during 1st login.
- Use the internet browser to access the camera, login screen will appear, login to the camera using username & password.

Click on [Config] > [Network] as shown below.

Pana	asonic			Pre	eview	Playback	Config	Alarm	Logout
Local Config Encode Network Step 2 Network Netservice	TCPIIP Network card parameter con NetCard Type Device IPv4 address	figuration Wired network car V 192.168.1.108] DHCP				Step 1		
Record Alarm System Config System Info	IPv4 subnet mask IPv4 default gateway MAC MTU HTTP port TCP port Orwif port	255.255.255.0 192.168.1.1 90.14:21:40:07:9f 1400 80 34567 8088							
	All Subnet Onvif DNS server configuration Preferred DNS server Alternale DNS server Step 3	8.8.8.6 8.8.4.4 Save]						

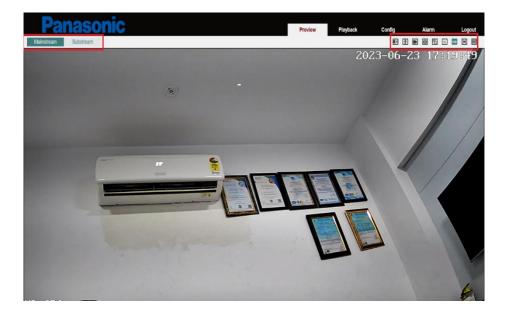
• Change the IP address as per your router/NVR configuration then click on save button.

• DHCP configuration

• Click on [Config] > [Network] as shown below.

Pana	asonic			Preview	Playback	Config	Alarm	Logout
 Local Config Encode 	TCPIP	tor configuration				Step 1		
V Network Step 2	Network card paramet		D Curr 1					
Network	Device IPv4 address	Wired network car V V DHC 192.168.1.108	P Step 3					
Net Service	IPv4 subnet mask	255.255.255.0						
 Record Alarm 	IPv4 default gateway	192.168.1.1						
System Config	MAC	90:f4:21:40:07:9f						
 System Info 	MTU	1400						
-,	HTTP port	80						
	TCP port	34567						
	Onvif port	8088						
	All Subnet Onvif							
	DNS server configura	tion						
	Preferred DNS server	8.8.8.8						
	Alternate DNS server	8.8.4.4						
	[Save Step 4						

4. About the Live Page & Icons



Preview	Mainstream Substream	Select Mainstream to view high resolution video or Sub stream to low resolution video.	
interface		Turn on to hear the sound.	
	₽.	Not applicable for this model.	

	Record: Click to start/stop manual recordings and save them in C:\Record
	Click to capture the preview screen and save it in C:\Picture
	Click to capture three pictures in single shot and save them in C:\Picture
IX	Original resolution display
201H	Suitable for display resolution
	Full-screen display
3	Fluency

5. About Playback

This option will not be in use for the current model.

6. About Config

Local Config

Provide option to define path for local storage related to manual recording Snap/Video.

Click on [Config] > [Local Config] as shown below

Pana	asonic			Preview	Playback	Config	Alarm	Logout
▼Local Config	Local Config							
Local Config	Video file save path	C:\Record	Browse]				
 Encode Network 	Preview capture path	C:\Picture	Browse					
Record	☑ Local snap saved in JPG i	iomat						
▶ Alarm		Save						
 System Config System Info 								
P aystell lillo								

Encode

Encode setting are video image quality settings which includes compression, resolution, FPS, bitrate, I-Frame interval etc. Setting these correctly based on the network can save network bandwidth, HDD space, fix network lags etc.

Click on [Config] > [Encode] as shown below.

Pana	asonic					Preview	Playback	Config	Alarm	Logout
Local Config	Encode Setting Audio									
▼ Encode	Encode mode	H.265	v	H.265	v					
Encode	Resolution	3M(2304x1296)	×	D1(704x576)	v					
Prev Mode	Frame rate(FPS)	25	v	25	v					
Network	Bit rate type	VBR	v	VBR	v					
Record	Quality	Good	v	Good	v					
Alarm	Bit rate(Kb/S)	3993	V	998	V					
System Config	Reference(Kb/S)	998-6656Kb/S		332-1664Kb/S						
System Info	I frame interval(1-20/Sec)	1	7	1						
	Video/Audio	V	7	V	¥					
	Default	Refresh	Save							

Audio Provide option to set audio encode settings, mic input, mic output (not applicable for this model) sensitivity.

Click on [Config] > [Encode] > [Audio] as shown below.

Panasonic Preview Playback Config	Alarm	Logout
Local Config Encode Setting Audio VEncode Encode mode G711A Encode Sampling rate 000 Prev Mode Out volume 10 Network In volume 100 Network In volume 100 Sare Sare System Config System Info	Additi	Logoat

Prev Mode

1. **OSD Setting** provides an option to configure parameters related to on screen display during the live view, for example Time title, Channel title, week title etc.

click on [Config] > [Prev Mode] > [OSD set] as shown below.

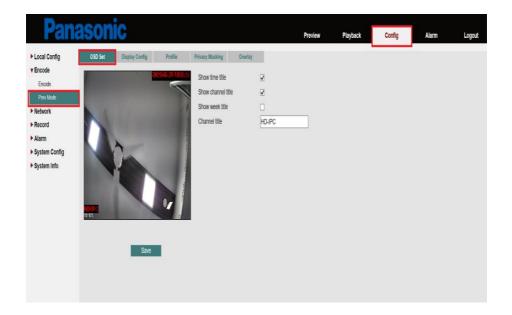
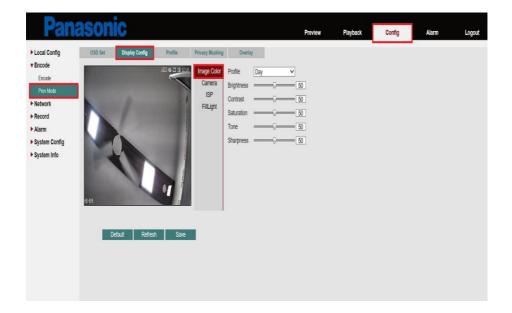


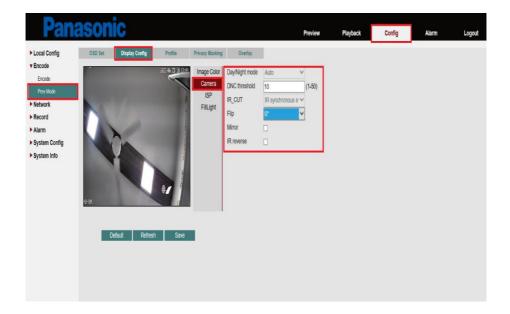
 Image color provides an option to configure parameters related to image quality, for example Brightness, Contrast, Saturation, Tone & Sharpness for day & night profile.
 Click on [Config] > [Prov Mode] > [Display Config] > [Image Color] as shown

Click on [Config] > [Prev Mode] > [Display Config] > [Image Color] as shown below.



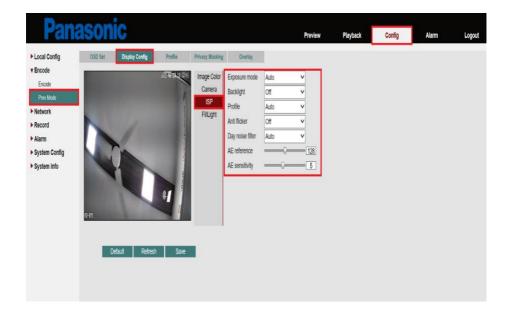
3. **Camera** provides an option to configure parameters related to Day/Night mode, day night control, IR cut, image flip, mirror image & IR reverse.

Click on [Config] > [Prev Mode] > [Display Config] > [Camera] as shown below.



4. **ISP** provides an option to configure parameters related to Exposure mode, BLC, HLC, Profile, Anti flicker, Day/Night Noise filter, AE reference & AE sensitivity.

Click on [Config] > [Prev Mode] > [Display Config] > [ISP] as shown below.

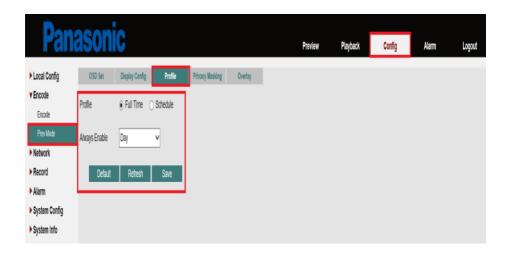


5. **Fill Light** option not applicable for this camera model.

Profile

Day & Night profile can be created and scheduled for different picture quality display during the live view.

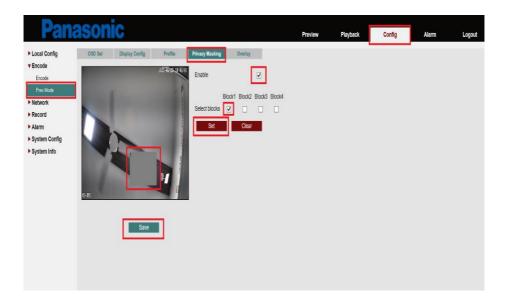
Click on [Config] > [Prev Mode] > [Profile] as shown below.



Privacy Masking

Privacy masking is used to block a particular area or object to be viewed during the live camera view, user can create up-to 4 different zones to mask.

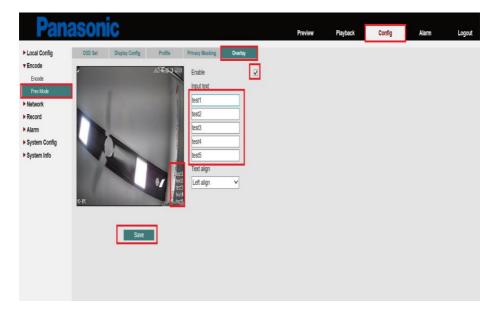
Click on [Config] > [Prev Mode] > [Privacy Masking] as shown below.



Overlay

This utility provides an option to configure text to be displayed over the live view.

Click on [Config] > [Prev Mode] > [Overlay] as shown below.



Network

Net Services

1. Email provides an option to configure SMTP server for the email ID to send alarm notification by the camera in case of any configured event.

Click on [Config] > [Net Service] > [Email] as shown below.

Pana	asonic						Preview	Playback	Config	Alarm	Logout
► Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
Encode	Enable										
▼ Network	SMTP server	sm	tp.gmail.com								
Network	SMTP port	465	j								
Net Service	Enable SSL	V									
Record	Username										
Alarm	PassWord										
System Config	Sender										
System Info	Receiver										
	Title	Ala	rm Message								
	Test	Save									

 DDNS provides an option to register with the DDNS server to obtain a domain name for your IP Camera and then access your IP Camera by visiting the domain name instead of an IP address (http://DDNS server address/IP Camera domain name) using a web browser.

Pana	ason	ic					President	Dia u kasak	Curfin	Alarma	l annut
							Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
▶ Encode	DDNS type	Ora	iy 🗸								
Network	Enable										
Network	Local domain	you	r.gicp.net								
Net Service	Username										
Record	PassWord										
Alarm		0									
System Config		Save									
System Info											

Click on [Config] > [Net Service] > [DDNS] as shown below.

3. RTSP provides an option to access IP Camera video stream over any 3rd party device/media player.

Click on [Config] > [Net Service] > [RTSP] as shown below.

Dan	ason										
rall	290H	IV					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WFi	UPnP	P2P	IP Filter			
Encode	Enable	V									
▼ Network	Port	554		1							
Network	URL:	rtsp:/	<pre>/<ip>:<port>/avstre</port></ip></pre>	eam/channel=<1>/s	tream=<0-mainstre	am;1-substream>.so	dp.				
Net Service											
Record		Save									
Alarm			-								
System Config											
System Info											

- 4. FTP is not applicable for this model.
- 5. Wi-Fi provides an option to configure the camera to connect with Wi-Fi network.

Click on [Config] > [Net Service] > [Wi-Fi] as shown below.

Dom											
Pana	asoni	C					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
▶ Encode	Wireless List	`			·	Sear	ch				
Network	No.	SSID		Work m		Signal streng					
Network	1 2	Server.		5c:a6:e6:a 5c:a6:e6:a		Low	~				
Net Service	3	Plasma		c8:3a:35:4	7:0e:78	Very Low					
► Record	4 5	production		5c:a6:e6:a 0c:b6:d2:23	3:57:de	Very Low Very Low					
► Alarm	6	AP		6c:5a:b0:5	a:2a:9c	Very Low					
System Config							~				
System Info											
	Wi-Fi										
	Enable	2									
	DHCP										
	SSID	AP350)								
	PassWord		•••	7							
	IP address	192.10	8.38.38								
	Subnet mask	255.25	5.255.0								
	Default gateway	192.10	8.38.1								
		Save	I								

6. To use UPnP in your IP Camera, UPnP must be enabled in the connected router. With UPnP enabled for Network Address Translation (NAT), the ports on the IP Camera can be mapped automatically to the router, and computers can access IP Camera from WAN.

Done											
Pana	1501	IC					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
► Encode	Enable	[
Network	HTTP port		0								
Network	TCP port		0								
Net Service	Phone port		0								
Record											
▶ Alarm		Sa	we								
System Config											
System Info											

Click on [Config] > [Net Service] > [UPnP] as shown below.

7. P2P Provide option to enable/disable cloud connectivity for remote access using mobile applications or desktop. User needs to click on Get Cloud ID, after the click camera will pop up message to reboot. After reboot cloud ID can be viewed at this option and camera can be configured in the app for remote monitoring. Click on [Config] > [Net Service] > [P2P] as shown below.

Dom											
Pana	asoni	C					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
► Encode											
Network	Enable	V									
Network	Device ID				_						
Net Service	Service Address	No	t Available	Get Cloud ID							
Record	Port	58	00								
Alarm		Save									
 System Config System Info 		Odirc									
• System mito											

8. IP Filter provides an option to secure connectivity and provide access to authorize users using blacklist and whitelist IP address table.

Pana	asoni	C					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
▶ Encode	Enable		2								
▼ Network	Limit type		Black list	~							
Network			Add	Delete							
Net Service					_						
Record	No. Dis	able IP			-						
▶ Alarm											
System Config											
System Info											
		Sav	e								

Click on [Config] > [Net Service] > [IP Filter] as shown below.

Record

Record option not applicable for this model.

Alarm

Provide option to trigger notification/recording based on motion, human, video loss, video blind, abnormality & intelligent analytics.

1. Motion

Once enabled a motion detection alarm occurs when an object inside the detection area moves, based on the settings notification can be sent on email.

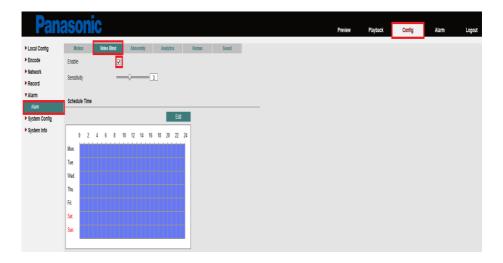
Click on [Config] > [Alarm] > [Motion] as shown below.



2. Video Blind

Once enabled a video blind alarm occurs when the camera view is blocked more than 60% by an object, based on the settings notification can be sent on email.

Click on [Config] > [Alarm] > [Video Blind] as shown below.



3. Abnormality

Once enabled abnormality alarm occurs in the event of Network Loss, IP Conflict detection. based on the settings notification can be sent on email.

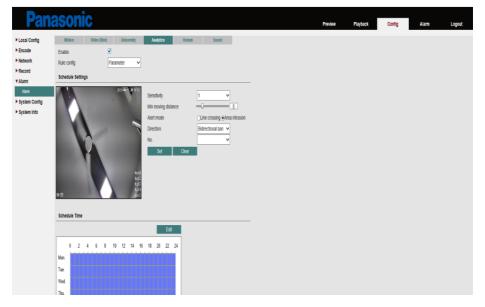
Click on [Config] > [Alarm] > [Abnormality] as shown below.

Dom	non	•				
ralli	asoni	j				
► Local Config	Notion	Video Blind	Abnormity	Analytics	Kuman	Sound
) Encode	Abnormal type		Address Confli 🗸			
Network	Enable	7				
Record	_	_				
▼ Alarm	Common					
Alam	Send Email					
System Config		Save				
System Info						

4. Analytics

Once enabled an alarm occurs when the camera detects Area Intrusion, Line Crossing event in the defined region, based on the settings notification can be sent on email.

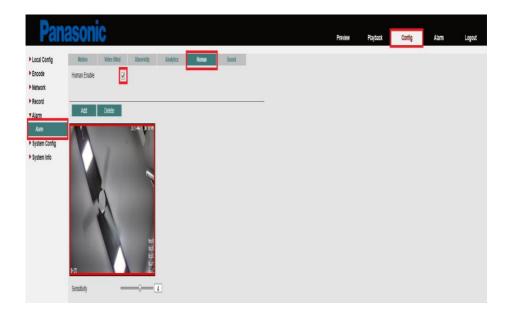
Click on [Config] > [Alarm] > [Analytics] as shown below.



5. Human Detection

Once enabled an alarm occurs when the camera detects any human movement in the defined region, based on the settings notification can be sent on email.

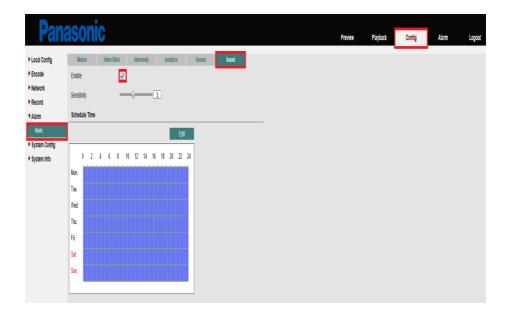
Click on [Config] > [Alarm] > [Human] as shown below.



6. Sound

Once enabled, it detects abnormal sound from the camera, based on the settings notification can be sent on email.

Click on [Config] > [Alarm] > [Sound] as shown below.

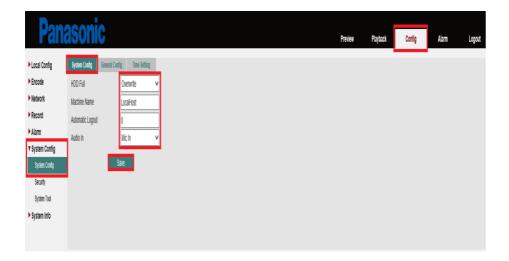


System Configuration

1. System Configuration provides an option to configure Machine/Camera name and auto logout time setting.

Note: HDD & Audio settings are not applicable for this product.

Click on [Config] > [System Config] > [System Config] as shown below.



2. General Configuration provides an option to configure language, date & time format & video format.

Click on [Config] > [System Config] > [General Config] as shown below.

Pana	asonic										
► Local Config	System Config General Co	onfig T	ime Sel	ting							
▶ Encode	Language	ENGLIS	Н				v				
Network	Date Format	YYYY M	M DO				v				
Record	Date Separator						v				
► Alarm	Time Format	24h					v				
System Config	Video Format	PAL					v				
System Config	DST	_									
Security	DST										
System Tool System Info	DST	🖲 Dale	01	Day of Wee	k						
 system into 	StartTime	2000		Jan	V	1	V	01	V	01	V
	EndTime	2000	V	Jan	V	1	V	01	V	01	V
	_										
		Save									
		Save									

3. Time Settings provides an option to select time zone and configure time automatically using NTP server or manually (sync with local PC).

Click on [Config] > [System Config] > [Time Setting] as shown below.

Pana	asonic				Preview	Playback	Config	Alarm	Logout
Local Config	System Config General Co	alig Time Setting							
▶ Encode	Time Zone	(GMT+05:30) Madras, Mumba	i, New Dehi 🔽						
Network									
Record	Schedule Time								
► Alarm	ONTP								
▼ System Config	Service Address	time.windows.com							
System Conlig	NTP Port	123							
Security	Time Interval	10	min						
System Tool	e								
System info	Manual Time								
	Device Time	2023-06-24 11:57:16							
	Setting Time		Synchronize with PC Time						
	🔮 Sa	aved succeeded! Save							
			-						

Security

 Security provides an option to configure Onvif authentication (Password Requirement for the camera), RTSP authentication (Password Requirement for the camera) to basic or Digest.

Click on [Config] > [System Config] > [Security] as shown below.



System Tool

1. Users provides an option to configure additional users to login using different permissions as allowed by the configuration. Only admin can add, delete, or modify additional users and their permissions.

Click on [Config] > [System Config] > [System Tool] > [User] as shown below.

Pana		nic			
Local Config	Us	r Auto Maintain System Tool	8		
▶ Encode	Add	User Modify User Delete	User Add Group Modily Group Delete Group		
Network	No. Usemame		Group Type		
Record	1 admin		admin		
▶ Alarm	2 guest		USEr		
▼ System Config					
System Config					
Security					
System Tool					
System info					

2. Auto Maintain provides an option to reboot the camera automatically at desired interval & time.

We can also select to auto delete old files (Logs).

Click on [Config] > [System Config] > [System Tool] > [Auto Maintain] as shown below.

Pana	sonic	Preview	Playback	Config	Alarm	Logout
 Network Record Alarm 	User Auto Waintain System Tools Automatic Restart Every Tues viat Of 000AM v Automatically delete files Never v Sare					

3. System tools provide an option to configure reboot, factory default & default settings of the camera. It also provides option to import or export the camera configuration file.

Firmware upgrade option is also available,

- 1) local upgrade User can upgrade the camera by selecting the upgrade file using browse option from local PC drive.
- OTA (over the air) User can check the latest upgrade from the online server by clicking on check button and based on the upgrade available, user can upgrade to the latest firmware.
- Note: UPS backup is highly recommended to all the devices during firmware/software update.

Click on [Config] > [System Config] > [System Tool] > [System Tool] as shown below.

Pan	asonic	Preview	Playback	Config	Alarm	Logout
Local Config	User Auto Maintain System Tools					
Encode	Reboot					
Network	Reboot Restart the device.					
Record	Default					
 Alarm System Config 	Factory Default Completely restore device parameters to factory setting	gs.				
System Config	Default Restore default settings, excluding the configuration of	f IP address and user manager.				
Security System Tool	File config					
System Info	Import Export					
	Upgrade					
	Upgrade file	Browse				
	StatusUpgrade					
	Explain : The upgrade process takes 1-10 minutes. Do not turn off the power. Aft	er the upgra				
	de is complete, it will restart automatically.					
	OTA Online Upgrade					
	Current Firmware Version is 1.03.03cc03cd.02j26189.T085.2 Build	i Date 2023-05-19 15:11:21				
	- Server Info	Check Upgrade				

System Information

1. Version information option displays like serial no, software build date, P2P status, & mac address.

Click on [Config] > [System information] > [System info] as shown below.

Pana	asonic	
► Local Config	Version Info	
Encode	System Version	1.03.03cc03cd.02j26189.T085.2
Network	Web Version	AppWeb2.0
Record	Extended Information	62.v004r010c001b007
▶ Alarm	Release Date	2023-05-19 15:11:21
System Config	MAC Address	90,14:21:40:07:91
▼ System Info	Serial No.	No Used
System info	Cloud Status	0.Not connected
System Log		

System logs provide the option to display the logs related to system, configuration, alarm event & Account.
 This also provides an option to manually clear/delete the logs.

Click on [Config] > [System information] > [System Log] as shown below.

Pana	AS(onic			
► Local Config	Logi	hfo			
Encode	Туре		AI V	5	learch
Network	Start tim	ie –	2023-06-24 00:00:00	Pi	evPage
Record	End time	e	2023-06-25 00:00:00	N	extPage
▶ Alarm	NO.	Log time	Туре	Describe	
▶ System Config ▼ System Info	2	2023-06-24 10:53:43 2023-06-24 10:53:43 2023-06-24 10:53:43	Recover time Save system state Log in	2023-06-24 10:53:43 2023-06-24 10:53:43 User default log in by GUI	^
System Info System Log	-	2023-06-24 10:53:54	Log in	User admin log in by DVRIP-Server (192.168.1.18)	
Uprimiting	5	2023-06-24 10:53:54	Log in	User admin log in by DVRIP-Server (192.168.1.18)	
		2023-06-24 11:47:09	Log in	User admin log in by DVRIP-Web (192.168.1.29)	
		2023-05-24 11:47:09	Set time	2023-06-24 11:45:55 User admin log in by DVRIP-Web	
		2023-06-24 11:45:56	Log in	(192.168.1.29)	v
		2023-06-24 11:57:51	Set time	2023-06-24 09:27:51	_
	Log time				
	Account				
	Туре				
	Describe	ė		_	
				R	emove

	Do's & Don'ts								
No.	Do's	Don'ts							
1	All electrical & electronic products are	The product should not be opened by the							
	required to be handed over only to the	user himself/herself but only be							
	Authorized recycler.	authorised service personnel.							
2	The product should be handed over only	The product is not meant for resale to any							
-	to authorised recycler for disposal.	unauthorised agencies/ scrap dealers/							
		kabariwalas.							
3	Keep the product in an isolated area	The product is not meant for mixing into							
5	after it become non-functional/	household waste stream.							
	unrepairable so as to prevent its								
	accidental breakage.								
4	Refer to operating instructions for	Do not keep any replaced spare part(s)							
	handling of end of life products.	from the product in an exposed area.							
5	Always dispose of products that have	Do not donate old electronic items to							
5	reached end of life at Panasonic Life	anybody.							
	Solutions India Authorized Service	Do not dispose of your product in garbage							
	Centre.	bins along with municipal waste that							
		ultimately reaches landfill.							
6	Wherever possible or instructed,	Do not give e-waste to informal and							
-	separate the packaging material	unorganized sectors like Local Scrap							
	according to responsible waste disposal	Dealers/ Rag Pickers.							
	options and sorting for recycling.								

Troubleshooting Points

When troubleshooting IP Camera, there are several points you can consider identifying and resolve issues. Here are some troubleshooting steps you can follow:

- 1. Check power and network connections:
 - Ensure that the camera is properly powered and connected to the network.
 - Verify that the power cable and network cables are securely connected and functioning.
- 2. Network configuration:
 - Confirm that the camera has the correct network settings, including IP address, subnet mask, gateway, and DNS configuration.
 - Ensure that the camera is connected to a stable and properly configured network.
- 3. Verify camera settings:
 - Review the camera settings, such as resolution, frame rate, compression, and encoding formats.
 - Ensure that the settings are appropriate for your needs and compatible with your network and viewing/recording devices.
- 4. Update firmware:
 - Check if there are any firmware updates available for your camera model.
 - Updating the firmware can address known issues, improve performance, and provide additional features.
 - Follow the manufacturer's instructions to update the firmware properly.
- 5. Reset to default settings:
 - If you are experiencing persistent issues, you can try resetting the camera to its default settings.

- This will restore the camera to its original configuration and may resolve certain problems.
- Note that this will erase any customized settings, so make sure to document them before performing a reset.
- 6. Network connectivity issues:
 - If the camera is having trouble connecting to the network or experiencing intermittent connection drops, check the network infrastructure.
 - Ensure that the router or switch is functioning correctly, and there are no network conflicts or IP address clashes.
- 7. Firewall and port forwarding:
 - If you are accessing the camera remotely or experiencing issues with remote viewing, check your firewall settings and port forwarding configuration.
 - Ensure that the necessary ports (such as HTTP port, RTSP port) are open and properly forwarded to the camera's IP address.
- 8. Check camera compatibility:
 - Verify that the camera is compatible with the software or recording device you are using.
 - Ensure that you have the appropriate drivers, plugins, or software versions required to access and view the camera's feed.
- 9. Monitor network bandwidth:
 - High-resolution cameras can consume significant network bandwidth. If you are experiencing network congestion or poor camera performance, monitor the network bandwidth usage and consider optimizing the camera's settings or upgrading your network infrastructure if necessary.

If you've gone through these troubleshooting steps and are still experiencing issues, it may be helpful to consult Panasonic technical support.

TECHNICAL SPECIFICATIONS

CAMERA	
Image Sensor	1/2.7" 3MP Progressive CMOS Sensor
Effective Pixels	2304x1296
Minimum Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR
S/N Ratio	>60dB
IR Distance	IR Distance 30m
Shutter Speed	Auto, Manual Mode: 1/50 sec~ 1/10000 sec
WDR	80db
IR On/Off Control	Auto/ Manual
IR LEDs	3 Nos Array LED
LENS	
Lens Type	Fixed
Mount Type	M12
Focal Length	3.6mm Lens
Max. Aperture	F1.2
Angle of View	Horizontal Angle- 82°, Vertical Angle- 63°, Diagonal Angle- 92°
Focus Control	Fixed
VIDEO	
Compression	H.265+, H.265, H.264
Streaming Capability	2 Streams
Resolution	3MP (2304x1296)/2MP (1920×1080)/D1(704×576)/ VGA (640×480)/ CIF (352×288)
Streams	Mainstream:3MP/2MP @25/30fps, Sub Stream: D1/ VGA/ CIF @25 FPS
Frame Rate	1 ~ 30fps
Bit Rate Control	CBR/VBR
Bit Rate	221-8192Kbps
Day/Night	Automatic/ Black and white
Exposure Mode	Automatic/Manual-(1/50-1/10000)
BLC Mode	On/Off

Profiles	Auto, Low Light Priority, High Light Priority
Noise Filter	Auto/ 1-5 Levels
Digital Zoom	Supports up to 64X (Area selection with Mouse)
Anti-Flicker	On/Off
AE reference	1-255 Level
AE Sensitivity	1-10 Level
Flip	Off / On
IR reverse	Support
Mirror	Off / On
Text Overlay	Title, Date & Time, Weekday
Privacy Masking	Yes (4 zones)
EVENTS	
Motion Detection	22X18 Zones
Video Blind	Support
Abnormality	No Disk, Disk Error, Disk No Space, Network Cable Disconnected, IP Address Conflict
Smart Functions	Intrusion Detection, Line Crossing Detection, Human Detection
Event Actions	Record alarm, Email link, Upload FTP, Snapshot
PAN-TILT	
3-Axis Adjustment (Bracket)	Pan:0° ~360°; Tilt:0° ~90°; Rotation:0° ~360°
SAFETY	
ONVIF Authentication	ON, OFF
RTSP Authentication	Digest, None
AUDIO	
Compression	G.711A/U
Talk Back	NA
NETWORK	
Ethernet	10/100M adaptive Ethernet interface
Protocol	TCP/IP, IPv4, ICMP, HTTP, HTTPS, HTTP-Base64, HTTP- Digest, DHCP, DNS, DDNS, RTP, RTSP, RTCP, NTP, UPnP, SMTP, FTP, IGMP, P2P,IP Filter, Wi-Fi
Interoperability	ONVIF Profile S & T
Max. User Access	30 Users
Edge Storage	Local PC for instant recording, one clicks Snapshot, one clicks triple Snapshot

Web Viewer	IE, Chrome, Firefox, Safari
Management Software	Panasonic VMS
Smart Phone	Supports Panasonic PHS for iPhone, Android
INTERFACE	
Audio	1 Input

Notes:

- 1. Design and specification are subjected to change without notice.
- 2. Weight and dimensions shown herein are approximate.
- 3. The Graphics in this manual are only for reference.
- 4. Your camera may be slightly different from that shown in this manual.

Panasonic Life Solutions India Pvt. Ltd. http://www.panasonic.com