Panasonic

Model No.: PI-BUA5MWA

Operating Instructions Bullet 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. M Unplug this apparatus during lighting storms or when unused for long periods of time.
- 13. Refer all servicing to qualified service personnel.
- 14. 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.
- 16. 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.

Contents

Part I Product Introduction	1
Product Function	1
Recommended PC Specifications	2
Accessories	3
Appearance	4
Installation Precautions	5
Installation Guide	6
Part II Local Network Access	7
1. Powering and Networking	7
2. Active X Installation Procedure	8
Install Active-x	8
3. Camera Configuration & Setup	10
4. About the Live Page & Icons	13
5. About Playback	14
6. About Config	15
Local Config	15
Encode	16
Network	25
Record	29
Alarm	30
System Configuration	36
Security	

System Tool	40
System Information	
Do's & Don'ts	
Troubleshooting Points	
TECHNICAL SPECIFICATIONS	

Product Function

- 1. For Indoor & outdoor use.
- 2. PoE enabled.
- 3. Encode codec (H.264, H.265 & H.265+)
- 4. Full HD Video Quality (2880x1620) 5MP.
- 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.
- 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 supported with limited functionality.

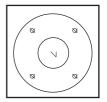
Accessories



RJ45 Cap with sealing Ring



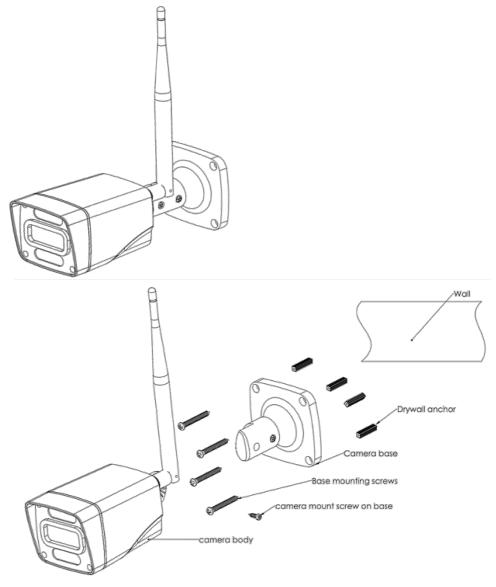
Screw & Wall Plug (x4)



Mounting Sticker

11		Panasonic	State: 2445 to 5644	 Determined the product of a high value of houses the high value of high product of the product of the product of the product of high value of the product of the product of high the high value. Determined high value of the high high high value of the product of the high high high value of the high value of the product high value of the high high high value of the high high value of the high high high value of the high value of the product high value of the new work the high value.
Λ	Panasonic	Quick Installation Guide Model Net Model No. Bullet IP Conserver PE DEASTMAN	WARDENESS Output and and a second sec	 Starting produce started of the starting of energy shifts in the start of the starting product of the start of the start of the product of the start of the start of the start of the start of the product of the start of the sta
11	Panasonic Life Solutions India Pvt. Ltd. CERTIFICATE OF WARRANTY Customer Copy Sr.No.A-	Bullet IP Camora PI-RUA/JMWA	 Devolution of persons of periods build an experimentation of devolution Methods and a software repeated for evaluation of a 1 Data periods that an approximate the evaluation of an experimentation and a real methods and all all the interventions and a finance repetition subjects at the periods. Our cancer at 17 VPC prove Supplet 1 Data periods are used as the an evaluation of the period before the finance of the software and other the software the software the finance of the software and other the software the software the finance of the software the software the software the software the finance of the software the software the software the software the finance of the software the software the software the software the software the software of the software the software the software the software the software the software the software of the software the software the software the software the software the software the software of the software the software	 Next the approximate define conducted from the transfer power increases of the Dependence on despine more in conduct. De- beaux the despinetism. Here we want to be appendix to power in the second seco
	Deer Customer, Thanks you for buying this Panasonic product. This card entities you to enjoy TYear warranty on the product. Product :	(A)	 typicate typicate<	 Environmental la president de la presidente de la contra de la presidente de l
	Model No. :		CAUTION: • Draw was as force date: the advant back such sector result (where a set as the sector) where the back set is the date in the sector of backshop ad outer called only proved to have been as the sector of backshop and outer called only proved to the sector of backshop ad outer called only proved to the sector of backshop ad outer called only proved to the sector of backshop ad outer called only proved to the sector of backshop ad outer called only proved to the sector of backshop address of the sector of backshop address of the sector of backshop address of the sector of backshop address of the sector of backshop address of the sector of t	 Samid the product as a bordina tage scores or more programs of the schemes and any scheme scale and scales or the schemes and the schemes and tage schemes and schemes and the schemes and tage is a scheme scale of the schemes and the schemes and tage is a scheme scheme scheme scheme is the schemes and contract schemes and schemes and schemes and a schemes and scheme and schemes schemes and schemes and schemes and schemes and schemes and schemes schemes and schemes and schemes and schemes and schemes and contract schemes and schemes and schemes and schemes and schemes and schemes schemes and schemes and schemes and schemes and schemes and schemes schemes and
	Address :	Freeze de Franzes state (a Lide e la suba a subera seus de ja subier a seu article e sube	 Depart on the probability of a sincident and a many plane. Tables to constru- fer any since encouplement on the single many. A cold candidate the probability for large departs and changes of cold candidate the memory any probability for large departs and changes of the constru- ng of single many single departs and the single department of the constru- tion of single many single departs in the single many single department. The single many single departs in the single of the single department of the single department. 	 Margany are in the ended of the distance of the second seco
	Date of Perdhase :	Constance can analyze (BLEGorg) (BD) 642 (BT) Earth Heighter) (Expension can Birliel DF (Province)	 Sing alreed pairs for a grant of a second pairs of a second pairs and all these. Otherwise, development of a second barrowise is the second pairs of the second methods of the second pairs of the second pairs of the second pairs of the all the second pairs of the second pairs of the second pairs of the second of the second pairs of the second pairs of the second pairs of the second of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs of the second pairs o	
	Legend manne ann maantos.	Environ Inte 2007 INC W All and Environment Environ Environment Environment All Annual Hit Compares Hit Compares Environment Environment Environment	 Taken to denote the part of the transition of a solution. The solution of the part of the three of the part of the transition of the solution of the solution of the solution of the part of the solution of	
	Help Line: Penasonic Customer care 1800/1190373, Email: help/ine@.in.penasonic.in Regd. office : Penasonic Life Socianos Inda Penasc Limeta (, 12th Hon; Ambience Lover, Ambience Island, Per4, G. support: 122002, Pengana, Inda	 Soft Back Server 1 vite Support This Low Translation 	 de se sur el la décentrement, a sur de la carde de la parte adri- n taromani estas dans finalmentes. Estas to clasera la car- arco deveradoré. 	
Intenna	Read, office : Panasonic Life Solutions India Private Limited, 12th Floor, Ambience Tower, Ambience Island,	- takihariten th	 New word a development word in words in a taxony word of a local function. Taken to the 	orn täi cag

Appearance



Installation Precautions

Note: This camera is for indoor and outdoor 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 Guide

- 1. Place the mounting base of camera onto the selected location.
- 2. Using the template provided, Drill the 4 holes with a 6 mm drill bit. Insert the wall plugs for concrete walls.
- 3. Secure the wall bracket to the wall using 4 mounting screws. Tuck the cable into the slot on the side of the wall bracket.
- 4. Adjust camera angle as per the requirement.

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.



Panasonic

English
0
•LAN OWAN
Login Download ActiveX

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.

Cogin	//192.168.1.108/doc/page/login.html X 2	* 🖉 Search	- a > ₽- @☆@
		Panasonic	
		Language English v	
		Usename Password O	
		LAN CHAN Login DesticationStatesX	

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

Panasonic

Language	English 🗸
	0
	•LAN OWAN
	Login Download ActiveX

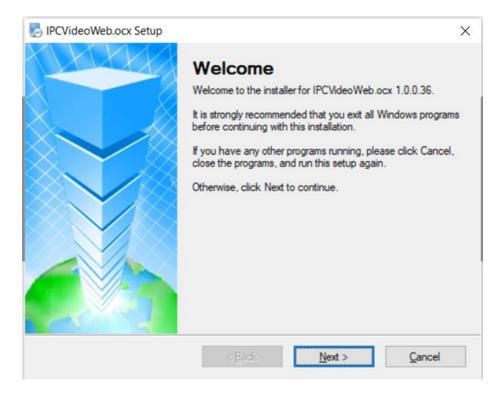
3. Then click on the save button as shown below.

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 the 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.

asonic Preview Playback Alarm Config Logout Local Config TCPIP Step 1 ► Encode Network card parameter configuration Vetwork Step 2 NetCard Type Wired network car v DHCP Device IPv4 address 192.168.1.108 Net Service IPv4 subnet mask 255.255.255.0 Record IPv4 default gateway 192.168.1.1 ▶ Alarm MAC 90:f4:21:40:07:9f ▶ System Config MTU 1400 System Info HTTP port 80 TCP port 34567 Onvif port 8068 All Subnet Onvif **DNS** server configuration Preferred DNS server 8.8.8.8 Alternate DNS server 8.8.4.4 Step 3

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

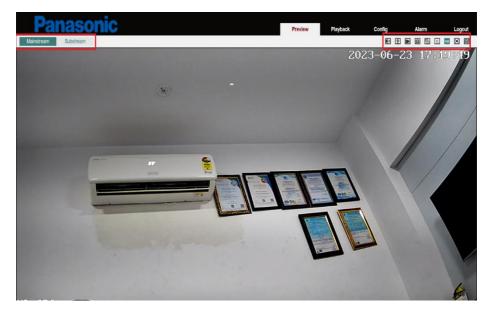
• Change the IP address as per your router/NVR configuration then click on save button.

• DHCP configuration

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

Pana	asonic				Preview	Playback	Config	Alarm	Logout
Local Config	TCP/IP						Step 1		
▶ Encode	Network card param	eter configuration		1			Step 2		
Vetwork Step 2	NetCard Type	Wired network car 🗸	🛛 DHCP	Step 3					
Network	Device IPv4 address	192.168.1.108		•					
Net Service	IPv4 subnet mask	255.255.255.0							
Record	IPv4 default gateway	192.168.1.1							
 Alarm System Config 	MAC	90:f4:21:40:07:9f							
 System looming System Info 	MTU	1400							
- ejouin nie	HTTP port	80							
	TCP port	34567							
	Onvif port	8088							
	All Subnet Onvif								
	DNS server configur	ation							
	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
0	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
MIN	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
V Local Config	Local Config							
Local Config	Video file save path	C:\Record	Browse]				
 Encode Network 	Preview capture path	C:IPicture	Browse					
▶ Record	✓ Local snap saved in JPG	format						
▶ Alarm		Save						
System Config								
System Info								

Encode

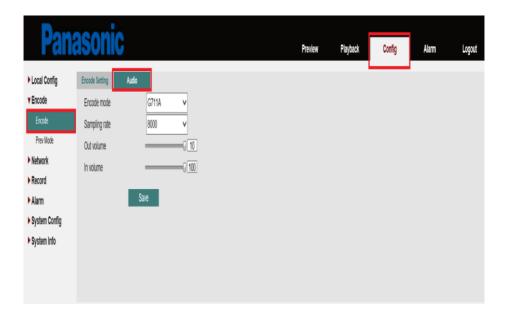
Encode settings are video image quality settings which includes compression, resolution, FPS, bitrate, I-Frame interval etc. Please set these correctly based on the network can save network bandwidth, HDD space, fix network lags etc.

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

Pan	asonic				
Local Config	Excede Setting Adda				
Encode	Encode mode	H.265	Y	H.265	v
*	Resolution	54(2880x1620)	v	01(704)576)	٧
Aute	Frame rate(FPS)	20	v	15	v
1	Bit rate type	VSR	v	VBR	v
đ	Quality	Good	v	Good	v
	Bit rate(Kb/S)	2257	v	635	v
n Config n Info	Reference(Kb/S)	1155445405		211-105840/5	
	I trame interval(1-20/Sec)	4		4	
	Video/Audio	a 1	8	2	8

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

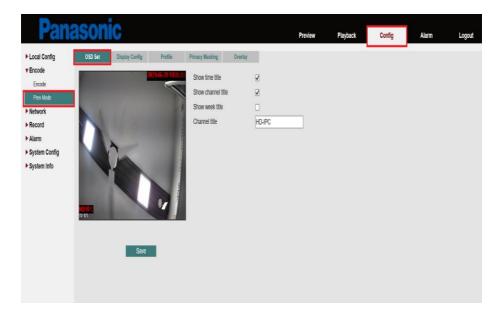
Click on [Config] > [Encode] > [Audio] as shown below.



Prev Mode

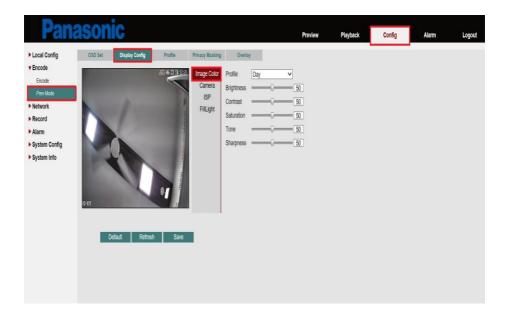
1. OSD Setting provides an option to configure options related to on screen display during the live view, for example Time title, Channel title, week title etc.

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



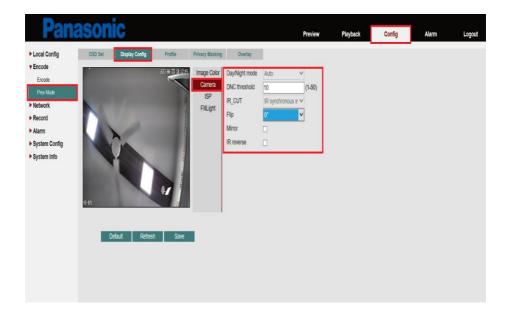
2. Image color provides an option to configure parameters related to image quality, for example Brightness, Contrast, Saturation, Tone & Sharpness for day & night profile.

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



3. Camera provides an option to configure parameter 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.

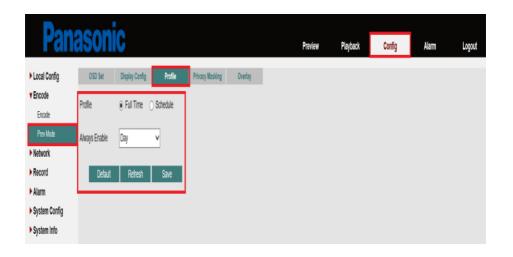
Panasonic Preview Playback Cor	Alarm Logout
 Local Config Boode Provide Network Alarm System Indo System Indo Cefault Retesh Save Record Config System Indo Cefault Retesh Save 	

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.

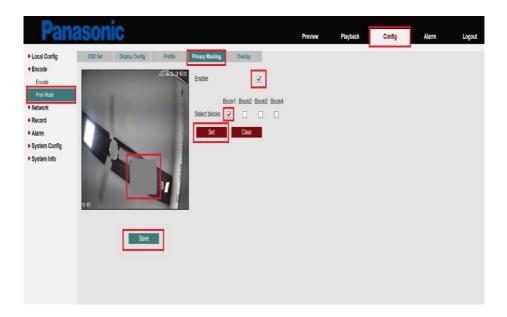
Click on [Config] > [Prev Mode] > [Profile] as shown below.



Privacy Masking

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

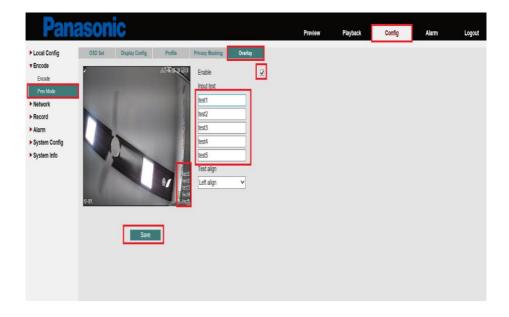
Click on [Config] > [Prev Mode] > [Privacy Masking] as shown below.



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.

Playback Config Preview Alarm Logout Local Config Emai DDNS RTSP FTP WiFi UPnP P2P **IP** Filter Encode Enable Network SMTP server smtp.gmail.com Network SMTP port 465 V Enable SSL Record Username ▶ Alarm PassWord System Config Sender System Info Receiver Title Alarm Message Test

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

 DDNS provides an option to register with an 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	asoni	C					Preview	Playback	Config	Alarm	Logout
Local Config Encode Network Network Network Net Service Record Alarm System Config System Info	Ensil DDNS type Enable Local domain Usemame PassWord	DDNS Oray	RTSP v icp.net	FTP	WFI	UPoP	P2P	IP Filter	Comp	AG 11	

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.

Pan	ason	c					-	Blackash	Aur 60	41	1
		IV					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
Encode	Enable	V									
▼ Network	Port	554									
Network	URL:	rtsp:/	/ <ip>:<port>/avstr</port></ip>	eamichannel=<1>/s	tream=<0-mainstre	am;1-substream>.sc	ip I				
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.

Pana	asoni	C					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
Encode	Wireless List					Searc	th				
Network	No.	SSID		Work m		Signal strengt	1				
Network	2	terne.		5c:a6:e6:a 5c:a6:e6:a	1:52:a6	Low Low	^				
Net Service	3 4	Plasma production		c8:3a:35:4 5c:a6:e6:a		Very Low Very Low					
Record	5	AP		0c:b6:d2:2 6c:5a:b0:5	3:57:de	Very Low Very Low					
 Alarm System Config 	0	AF		00.08.00.0	1.2d.96	Very LOW					
 System Coning System Info 							*				
• system mito											
	Wi-Fi										
	Enable	2									
	DHCP	V		_							
	SSID	AP3	50								
	PassWord	•••	••••								
	IP address	192.	168.38.38								
	Subnet mask	255.	255.255.0								
	Default gateway	192.	168.38.1								
		Save									

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.

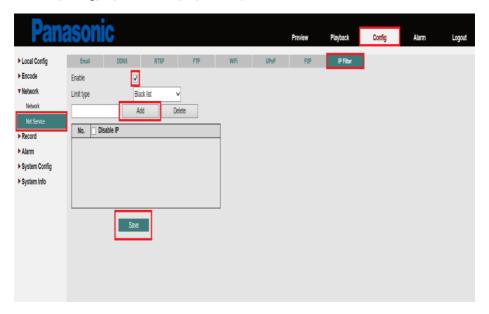
Pana											
Falle	150N	IC					Preview	Playback	Config	Alarm	Logout
Local Config	Email	DDNS	RTSP	FTP	WiFi	UPnP	P2P	IP Filter			
► Encode	Enable										
▼ Network	HTTP port	0									
Network	TCP port	0									
Net Service	Phone port	0									
Record											
▶ Alarm		Save									
System Config											
System Info											

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

7. P2P provides an 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.

Pan	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	Not	Available	Get Cloud ID	-						
Record	Port	580									
▶ Alarm	1 611	000									
System Config		Save									
System Info											

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



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

Record

Record option not applicable for this model.

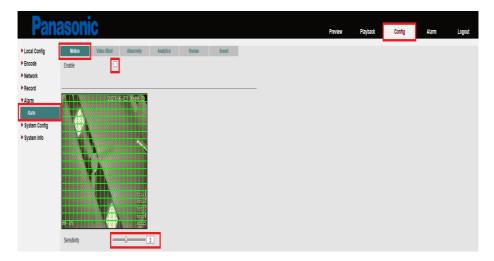
Alarm

Provides an 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.

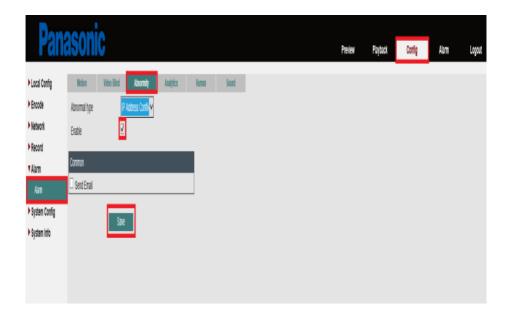
Click on [Config] > [Alarm] > [Video Blind] as shown below.



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.



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.

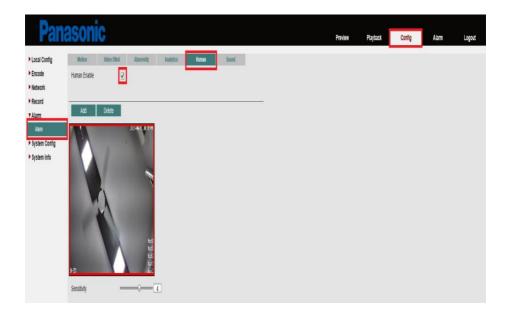
Click on [Config] > [Alarm] > [Analytics] as shown below.

Pana	asonic		Preview	Playback	Config	Alarm	Logout
Local Config Encode Network Record Alarm System Config System Info	Alert mode OL	Sound S The crossing @Alea intrusion directiona ban V V					
	Schedult Time Ect 0 2 4 6 10 12 14 15 50 20 22 24 Mon.						

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.

Pana] S(onic								Preview	Playback	Config	Alarm	
► Local Config	Moó	on Video Blind	Abnormity	Analytics	Human	Scund								
▶ Encode	Enable	2	1											
 Network Record 	Sessitivy													
▼ Alarm	Schedu	le Time												
Kam	Ea													
System Config				40 20 20 2										
System Info		2468	10 12 14 16	18 20 22 2										
	Mon.													
	Tue.													
	Wed.													
	Thu.													
	Fri.													
	Sat.													
	Sun.													

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.

	Alarm	Config	Disubaak	Preview		Panasonic							
l	AMIN	coning	Playback	LIEUGH			NOALIIA						
						ifig Time Setting	System Config General Con	Local Config					
					v	Overwrite 🗸	HDD Full	▶ Encode					
					=	LocalHost	Machine Name	Network					
					=	0	Automatic Logout	Record					
					v	Mic In 🗸 🗸	Audio In	▶ Alarm					
					-			▼ System Config					
						Save	S	System Config					
								Security					
								System Tool					
								System Info					
								System Tool					

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		ral Config 🛛 Time	Setting							
► Encode	Language	ENGLISH			-	v				
Network	Date Format	YYYY MM	DD			v				
Record	Date Separator					v				
► Alarm	Time Format	24h				v				
System Config	Video Format	PAL				v				
System Config	DST									
Security System Tool	DST									
 System info 	DST	Date) Day	of Week						
-,	StartTime	2000	v Ja	n v	1	V	01	V	01	٧
	EndTime	2000	v Ja	n v	1	V	01	V	01	٧
		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 Con	lig Time Setting							
Encode	Time Zone (GHT-1533) Madras, Munitea, New Dehi								
Network									
Record	Schedule Time								
▶ Alarm	ONTP			_					
System Config	Service Address	time.windows.com							
System Config	NTP Part	123							
Security	Time Interval	10	min						
System Tool									
 System info 	Manual Time								
	Device Time	2023-06-24 11:57:16							
	Setting Time		Synchronize with PC Time						
	🔮 Sa	ved succeeded! Save]						

Security

1. 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

 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.

Done		NNIA					
Pana	Ы	JIIC					
Local Config	Us	er Auto Naintain System Tool					
▶ Encode	Add User Modily User Delete User Add Group Modily Group Delete Group						
Network	NO.	Usemame	Group Type				
Record	1	admin	admin				
) Alarm	2	guest	USEF				
System Config System Config							
System coning Security							
System Tool							
System Info							

 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	asonic	Preview	Playback	Config	Alarm	Logout
Local Config Encode Network Record Alarm System Config System Config System Tool System Tool System Info	User Auto Maintain System Tools Automatic Restart Every Tues Viat 01:004M V Automatically delete files Never V Sare					

3. System tools provides an option to configure reboot, factory default & default settings of the camera. It also provides an 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.

Pana	asonic			Preview	Playback	Config	Alarm	Logout
Local Config Encode	User Auto M Reboot	isintain System Tools						
 Network Record 	Reboot	Restart the device.						
 Alarm System Config System Config 	Factory Default Default	Completely restore device parameters Restore default settings, excluding the	to factory settings. configuration of IP address and user mar	nager.				
Security System Tool > System Info	File config	Export						
	Upgrade				5			
	Upgrade file StatusUpgrade		Browse					
		ocess takes 1-10 minutes. Do not turn off it will restart automatically.	the power. After the upgra					
	OTA Online Upgrade							
	Current Firmware Version i	s 1.03.03cc03cd.02j26189.T085.2	Build Date 2023-05-19 15:1]				

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 provides an 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	aso	nic			
► Local Config	Log info	_			
▶ Encode	Туре		Al 🗸		Search
Network	Start time		2023-06-24 00:00:00		PrevPage
 Record Alarm 	End time		2023-06-25 00:00:00		NextPage
 Alarm System Config 		Log time	Туре	Describe	
 System Coning System Info 	2 203	23-06-24 10:53:43 23-06-24 10:53:43 23-06-24 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		23-06-24 10:53:54	Log in	User admin log in by DVRIP-5 (192.168.1.18)	
ojotani cug	5 202	23-06-24 10:53:54	Log in	User admin log in by DVRIP-S (192.168.1.18)	
	6 202	23-06-24 11:47:09	Log in	User admin log in by DVRIP-1 (192.168.1.29)	Veb
	7 203	23-06-24 11:47:09	Set time	2023-06-24 11:45:55	lish.
		23-06-24 11:45:56	Log in	User admin log in by DVRIP-N (192.168.1.29)	ICU N
		23-06-24 11:57:51	Set time	2023-06-24 09:27:51	
	Log time				
	Account				
	Туре				
	Describe				_
					Remove

	<u>Do's & Don'ts</u>									
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	1/2.9" 5MP Progressive CMOS Sensor
Effective Pixels	2880x1620
Minimum Illumination	Color: 0.01 Lux @ (F1.2, AGC ON), B/W: 0 Lux with IR
S/N Ratio	>60dB
IR Distance	IR Distance 20m
Shutter Speed	Auto, Manual Mode: 1/50 sec~ 1/10000 sec
WDR	80db
IR On/Off Control	Auto/ Manual
IR LEDs	4 Nos Dual Source LEDs, IR Distance 20m & Color Image up to 10m
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	5MP (2880X1620)/4MP (2560X1440)/ 2MP (1920×1080)/ D1(704×576)/ VGA (640×480)/ CIF (352×240)
Streams	Mainstream: 5MP (2880X1620) @20FPS/ 4MP (2560x1440)/ 2MP (1920×1080) @25/30FPS, Sub Stream: D1 (704x576)/ VGA (640x480)/CIF (352×240) @15/25FPS
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