

FW9707/9709 Series User Manual

(Camera Setup and PTZ function)

November, 2025



<p>Class A device (Broadcasting and communication equipment for business use)</p>	<p>This device is a business (class A) electromagnetic wave suitability device, and sellers or users are advised to take note of this point, and it is intended to be used outside the home.</p>
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1. Production Overview

1.1. FW9707 / FW9709 Series Introduction

FW9707/9709 Series Speed Dome is a high quality IR PTZ IP camera with multiple resolutions and zoom ratios. The most sensitive sensor, especially good in low light conditions. Simultaneous support for H.265, H.264 and MJPEG video compression reduces network bandwidth and storage requirements. In addition, it provides high definition video with various resolutions for each model along with the PTZ function through the network.



Figure 1: Appearance of the camera

1.2. Main Function

- Ambarella or Eyeix platform without Back Door security issues
- Ultra-high sensitivity
- Absolute coordinate support
- Supports PTZ Text OSD (up to 9)
- 4-step zoom proportional IR LED operating up to 400m
- Simultaneous transmission of up to 4 streams (H.265, H.264, M-JPEG, JPEG)
- Built in fan/heater
- Transfer rates up to 30 fps
- Bandwidth saving using H.264 / H.265 video compression
- ONVIF support (Profile T, Profile S)

FW9707-FNR

- Sony 1/3" 2.48M PS CMOS Sensor
- Optical 30x (f 4.3mm~129mm), Digital 32x Zoom
- Options: Optical 40x (f 4.25mm~170mm), Digital 32x Zoom

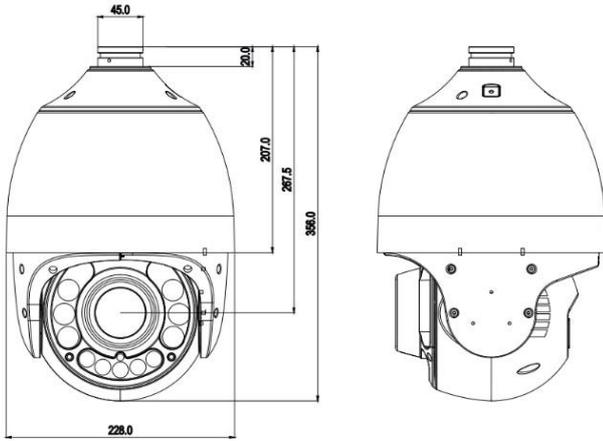
FW9709-FNR

- Sony 1/1.9" 2.42MP PS CMOS Sensor
- Optical 36x (f 6mm~216mm), Digital 32x Zoom

FW9709-QNR

- Sony 1/1.8" 6.44MP CMOS Sensor
- Optical 36x (f 6mm~216mm), Digital 32x Zoom
- Options: Sony 1/2.8" 5.14M Sensor, Optical 40x (f 4.25mm~170mm), Digital 32x Zoom

1.3. Product Specifications



camera	
image pickup device	See main features
lens	See main features
Day & Night	True Day & Night (ICR)
minimum illumination	Color 1/30s: 0.01 lux, Monochrome 1/30s: 0.05 lux Color DSS on: 0.001 lux, B& W : 0.0002 lux
pan tilt zoom (Pan Tilt Zoom)	Pan: 360° Endless Tilt : -10°~190° Zoom : Optical 36x, Digital 32x (total 1152x) 255 presets , 8 groups , 8 tours , 8 swings. Automatic reversal , automatic parking , power on operation . 9 Pan Text display function by angle .
video streaming	
system	Ambarella 32 -bit Embedded Linux 256Mbyte SDRAM, 128Mbyte NAND Flash 64bit RISC-V Quad Core up to 594MHz, Flash 2Gbit(256MB) / LPDDR3 8Gbit(1025MB)
compression method	H.265, H.264, M-JPEG, JPEG
resolution	2560x1440 (QNR), 1920x1080, 1280x720, 704x480, 640x352, 320x176, 160x96 ,
max frame rate	30fps@2MP, 30fps@4MP
streaming	up to 4 types of streaming : H.265/H.264/MJPEG, Frame rate, Bitrate, VBR/AVBR/CBR/ACBR, GOP
video settings	
focus control	Auto / Semi- Auto / Interval / Manual
exposure control	Shutter : Auto / Priority / Shutter Priority / Manual (1/30 sec (25 sec) to 1/30,000 sec); brightness ; backlighting (BLC, real-time WDR); Flickerless ; aperture ; DSS; AGC
Day & Night	Day / Night / External day <-> night threshold
white balance	Auto / Indoor / Outdoor / Manual
privacy masking	up to 24

image settings	Gamma , Sharpness , Noise Reduction (3DNR), Haze Reduction , DIS, ACE, HLC, Privacy , Invert
Text OSD	up to 9 lines
network	
security	IP Filtering, HTTPS, Encrypted & Basic Authentication, Management White List
protocol	HTTP, RTP/RTSP(Unicast//Multicast), TCP/IP(v4/v6), UDP, FTP, Telnet, HTTPS, RARP, SNMP, DHCP, NTP, SMTP client, UpnP & etc
DDNS	www.ipcctvdns.com
connection	RJ45 Ethernet 10/100Mbps
system integration	
programming interface	SDK, OnVIF Profile T , Profile S,
Intelligent video analysis	Motion Detection, Optional : ROI, Tripwire, Tampering, Face Detection
triggering event	Motion detection , triggering DI, triggering serial input , connected/disconnected , boot shutdown
event action	Pre/Post Alarm, FTP Upload , Email Notification , FCM Google Notification
connection	4 DI/ 2 DO, RS485
Light	
type	13EA Power IR LEDs
maximum distance	up to 400 meters
onboard storage	
form	1 MicroSD slot
Recording event type	General (always) , schedule , event , schedule & event
play	Internet Explorer, FlexWATCH NVR/ CMS/ Mobile App
Audio	
compression method	8bit G.711, 8Khz, 8KByte/sec
streaming	2 way
connection	1 input, 1 output
hardware	
texture	metal
power supply	AC to AC adapter, Output : AC24V/3A
Power Consumption	up to 42W
operating temperature/humidity	- 35°C ~ +60 °C , 10% ~ 90% RH
External dimensions	228 φ x 356(H) mm
weight	About 6,000g (without Bracket & Power Supply)
certification	KC, FCC, IK10, IP66
accessory	Wall Bracket
Built-in software	IP Installer, SMVP, Smart NVR Lite

1.4. Components

The FW9709 Series product consists of the following components.

FW 9709 Series Body	1ea	
Bracket (wall or ceiling)	1ea	 or  wall ceiling type
Power adapter (24V 3A)	1ea	
LAN waterproof cap(Option) & body fixing rope	each 1ea	 
Bracket fixing screws (3ea) Hex wrench (1ea)	1ea	

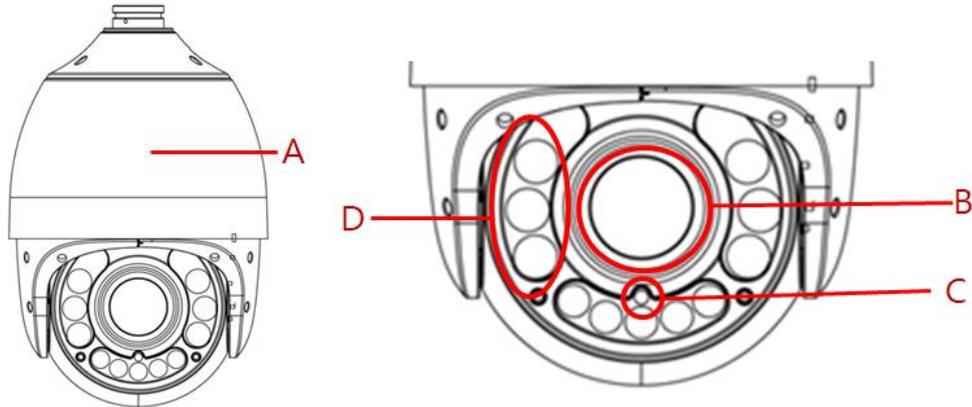
Table 1: FW9707/9709 Series Product Components

IF *If the purchased product is missing any of the above components, please contact the place of purchase.*

2. Equipment Description

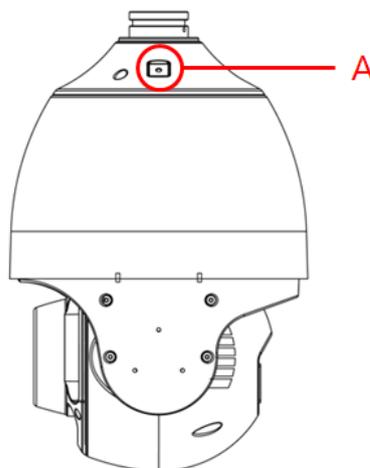
2.1. Appearance

- Front Part



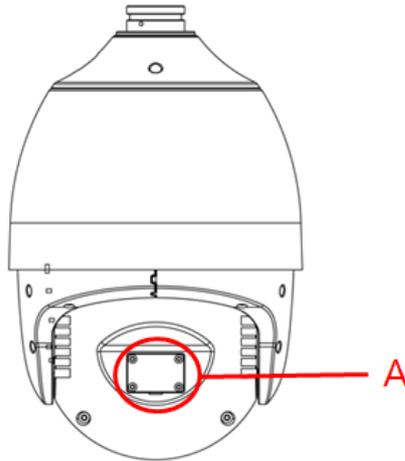
Division	Name	Explanation
A	Body Frame	Camera Body
B	Lens	Camera Lens Part
C	CDS sensor	CDS sensor
D	IR (Infrared)	Infrared ray

- Side Part



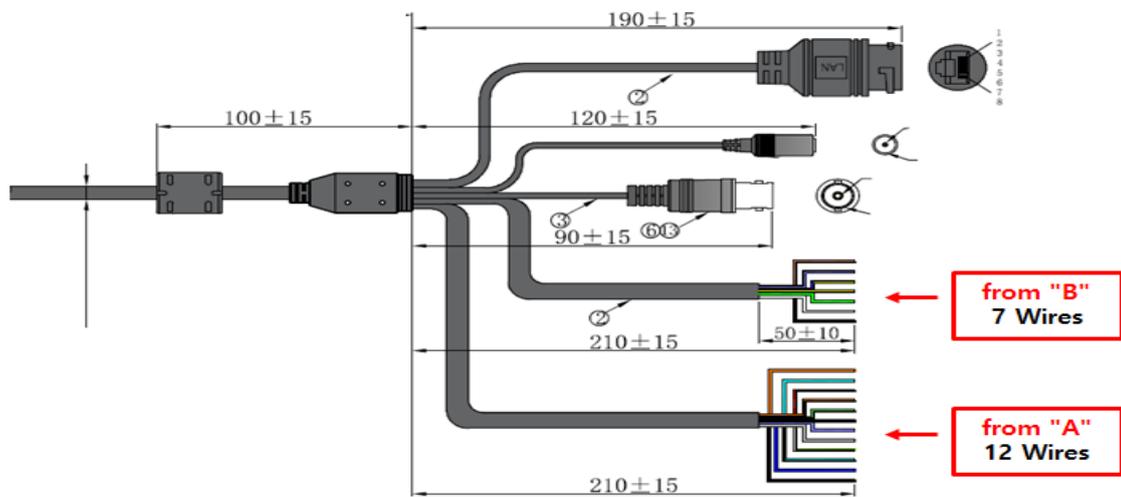
Division	Name	Explanation
A	Rope Connection Part	Body Rope Joint

● Rear Part



Division	Name	Explanation
A	Rear Cover	When removing the cover, <ul style="list-style-type: none"> - MicroSD slot - Reset button (FD S/W) - Console (RS-232 port) - TX/RX LEDs (Blue) - LINK LED (Green) - Power LED (Red)

3. Harness Specifications



Pin no.	Function	Wire Color	Description	Remark
1	ALARM-C1	White	Alarm Input-C1	12 Wire from "A"
2	ALARM-C2	Pink	Alarm Input-C2	
3	GND	Sky-blue	Alarm Ground	
4	ALARM-C3	Red + Black line	Alarm Input-C3	
5	ALARM-C4	Orange + Black line	Alarm Input-C4	
6	GND	Yellow + Black line	Alarm Ground	
7	RELAY1-COM	Green+ Black line	Relay1 Common	
8	RELAY1-NO	Blue + Black line	Relay1 Normally Open	
9	RELAY1-NC	Purple + Black line	Relay1 Normally Closed	
10	RELAY2-COM	Gray + Black line	Relay2 Common	
11	RELAY2-NO	White + Black line	Relay2 Normally Open	
12	RELAY2-NC	Pink + Black line	Relay2 normally closed	
1	RS 485 +	Black	RS485+	7 Wire from "B"
2	RS 485 -	Brown	RS485 -	
3	GND	Red	Board Ground	
4	AUDIO IN	Orange	Audio Input	
5	GND	Yellow	Audio Ground	
6	AUDIO OUT	Green	Audio Output	
7	GND	Blue	Audio Ground	

4. Installation and Basic Setup

4.1. Preparation before system installation

- Check the user network environment (IP Address, Network Mask and default gateway).

4.2. Factory Default

The following are the factory default settings.

Division	Factory Default
Admin ID	root
Admin password	root
IP address	10.20.30.40
Network mask	255.255.255.0
Gateway	10.20.30.1

Table 2: Factory default values

 *Admin ID and password are case sensitive.*

4.3. Hardware installation

The physical work to install FW9707/9709 Series is as follows.

1. Connect the FW9707/9709 Series body and bracket.



2. Connect each cable such as LAN cable.

3. Connect the power of FW 9707/9709 Series.

 *When powered on, the camera rotates to self-test.*

- IP Setup uses IP Installer Plus. (Refer to the separate manual)
- For resolution and other major settings, please refer to the Web Admin manual.

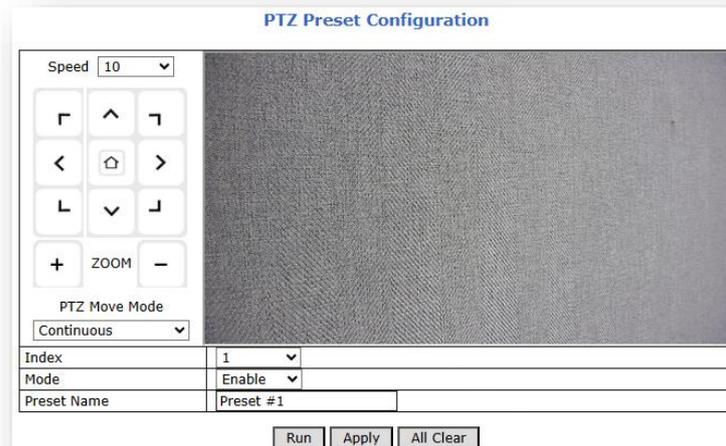
This manual covers PTZ related functions and Camera Setting menu.

5. Device

Preset, Tour, Group, Swing, Home, Zero functions and setting methods related to PTZ.

5.1. PTZ Preset

Preset function can be set from 1 to 255.



- Index: Specifies the preset number.
- Mode: Specifies whether to Enable/Disable.
- Preset Name: Specifies a preset name.
- Run : Operates the set preset
- Apply : Apply your current location to that preset
- All Clear : Delete all set presets

5.2. PTZ Tour

Tour is a function that registers specified presets and operates them all at once. Up to 8 tour functions can be set, and up to 16 presets can be assigned to one tour.

PTZ Tour Configuration

Speed 10

↖

^

↗

<

⌂

>

↙

v

↘

+

ZOOM

-

PTZ Move Mode
Continuous

Index 1

Mode Enable

Enable	No.	Preset	Dwelling Time	
<input type="checkbox"/>	1	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	2	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	3	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	4	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	5	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	6	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	7	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	8	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	9	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	10	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	11	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	12	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	13	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	14	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	15	1	5	Sec (1 ~ 40)
<input type="checkbox"/>	16	1	5	Sec (1 ~ 40)

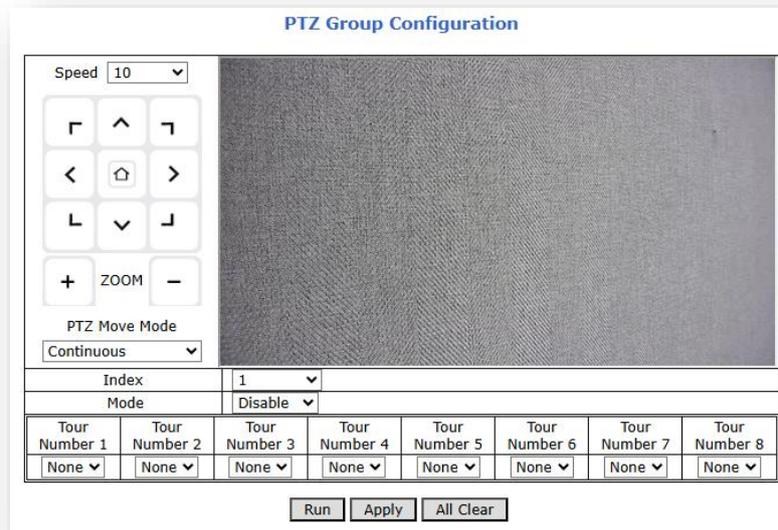
Run
Apply
All Clear

- Index : Specifies the Tour number.
- Mode : Specifies whether to Enable/Disable.
- Enable : Checking this will activate the corresponding menu.
- No : This is the number (order) in which the preset will be activated.
- Preset : Specifies the preset number to be set.
- Dwelling Time : Specify the dwelling time in Preset.
- Run : Operates the set tour
- Apply : Apply your current location to that tour
- All Clear : Delete all set tours

5.3. PTZ Group

A group is a function that registers set tours and operates them all at once.

Up to 8 groups can be set, and up to 8 tours can be assigned to one group.



- Index : Specifies the group number.
- Mode: Specifies whether to enable/disable.
- Tour Number: Specifies the desired Tour Number.
- Run : Operates the set group.
- Apply : Apply your current location to that group
- All Clear : Delete all set groups

5.4. PTZ Swing

The swing function allows for round-trip operation by specifying two preset points (start and end). Up to eight points can be registered.

Index	1	
Mode	Disable	
Swing Start Preset	1	
Swing End Preset	2	
Swing Speed	63	(1 ~ 63)
Swing Dwelling Time	5	(1 ~ 64)
Swing Direction	CW	

- Index : Specifies the swing number.
- Mode : Specifies whether to enable/disable.
- Swing Start Preset : Specifies the swing start preset number.
- Swing End Preset : Specifies the swing end preset number.
- Swing Speed : Specifies the swing speed. (The higher the number, the faster the movement speed.)
- Swing Dwelling Time : Specifies the dwell time in each preset.
- Swing Direction : Specifies the swing direction (CW: clockwise, CCW: counterclockwise)
- Run : Operates the set swing
- Apply : Apply your current location to that swing
- All Clear : Delete all set swings

5.5. PTZ Home

This feature allows you to set the camera's position as home and move to it when you press the (Home) button in the viewer.



- Run : Go to PTZ Home.
- Apply : Change the current location to PTZ Home.
- Clear : Delete the PTZ Home location.

5.6. PTZ Calibration

This is an initialization menu that initializes PTZ coordinates. During frequent PTZ control, deviations may occur depending on the movement of motors and gears. This function eliminates these deviations.



- Run: Automatically Calibration proceeds as PAN/Tilt operates.

5.7. PTZ Tracking

This is a function that tracks people who appear in a designated area using PTZ.

5.7.1. Object Settings

1. Go to Video & Audio -> AI Control menu
2. Select the AI model 005_SelectedObjectedTracking_1_672_384 and click the Apply.

AI Model	005_SelectedObjectT ▼
----------	-----------------------

* Reboot is required after setting up the AI model.

3. The object type is set to Person.

If you check Person in object masking, it will be processed as a block

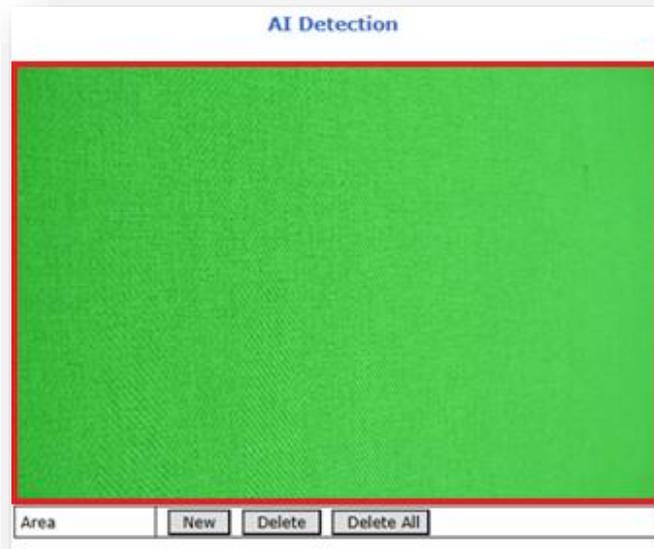
Object Type	<input type="checkbox"/> Select/Unselect All <input checked="" type="checkbox"/> person
Object Masking (Raw Video Only)	<input type="checkbox"/> Select/Unselect All <input type="checkbox"/> person

4. Set it up as shown in the picture below

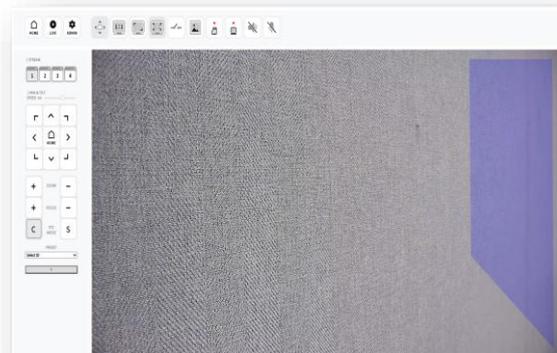
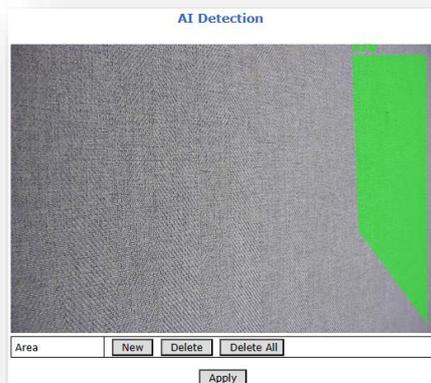
Object Min Confidence	40	(10 ~ 100 %)
Object Min Width	1	(1 ~ 100 %)
Object Max Width	100	(1 ~ 100 %)
Object Min Height	1	(1 ~ 100 %)
Object Max Height	100	(1 ~ 100 %)
Object Tracking Enable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Objects Display on Raw Video	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Objects Display on Viewer	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Synchronize video and BBox	<input type="radio"/> Enable <input checked="" type="radio"/> Disable	
Letter Box Enable/Disable	<input checked="" type="radio"/> Enable <input type="radio"/> Disable	
Crop Offset	5	(-100~100)

* The sensitivity of the object can be adjusted from the object min confidence.

5. After clicking on the screen, you can use the mouse to change the detection area or shape. You can specify up to 16 detection areas.



For example, if you specify a region as shown below, the web viewer will display the specified region. If you select All, the entire region will be displayed.



* Please refer to the AI settings manual for detailed instructions on setting AI settings.

Caution :

5.7.2. PTZ Tracking

PTZ Tracking Configuration

Service	<input type="radio"/> On <input checked="" type="radio"/> Off	
Polling Period	300	(msec)
Triggered when object detected	<input type="radio"/> On <input checked="" type="radio"/> Off	
Triggered when object selected	<input type="radio"/> On <input checked="" type="radio"/> Off	
Restart seconds after manual PTZ	5	(Default:5, 5 ~ 60 Sec)

- Service : Sets whether to use the PTZ tracking function.
- Polling Period : The period for detecting objects. Unit is ms.
- Triggered when object detected : Acts when an object is detected
- Triggered when object selected : Action occurs when an object is selected
Object selection mode works with Internet Explorer and Active-X.
- Restart second after manual PTZ : This feature specifies how many seconds after the user takes control of the PTZ, the tracking function will start.

The tracking function requires the initial setting of a home position, as it must return to the home position when no objects are detected. Therefore, the default setting is "Off."

5.8. PTZ Mode

This is the default screen for PTZ operation.
If you change the settings, PTZ will not function.

PTZ Mode Configuration

Dummy Data	<input type="radio"/> On <input checked="" type="radio"/> Off			
Current Protocol	RS485 ▼			
Current Baudrate	19200 ▼			
PTZ Model	Built-in PTZ ▼			
Base Address	PTZ Install Flag			
	Ch 1	Ch 2	Ch 3	Ch 4
0 (0~255)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

6. Camera Settings

This is a menu to set camera functions such as PTZ speed of FW9707/9709 Series camera.

6.1. Zoom & Focus

This is a menu to set the minimum focus distance, zoom, and focus functions.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun	
Zoom Speed	7 ▾
Digital Zoom Mode	<input checked="" type="radio"/> Off <input type="radio"/> On
Focus Speed	1 ▾
Focus Mode	Auto Focus ▾
Focus Near Limit	30CM ▾

- Zoom Speed : Adjust the zoom speed
- Digital Zoom Mode: Select whether to use digital zoom.
- Focus Speed : Adjust the focus speed.
- Focus Mode : Select the focus mode.
- Focus Near Limit : Adjust the minimum focus distance.

6.2. WB

This is the menu to set the white balance of the camera.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun	
WB Mode	Auto ▾
R Gain	10 (Default:10, 0 ~ 20)
B Gain	10 (Default:10, 0 ~ 20)
Saturation	10 (Default:10, 0 ~ 20)

- WB Mode: Select the white balance mode.
 - Auto : Automatically activates white balance mode
 - Indoor : Set white balance mode to indoors.
 - Outdoor : Set white balance mode to outdoors.
 - OnePush : White balance mode operates with one push
(automatically adjusted after PTZ operation)
 - Manual : Set white balance mode to manual
- R Gain: Adjust R Gain.
- B Gain: Adjust B Gain.
- Saturation: Adjust Saturation

6.3. AE

This is the menu to set the brightness of the camera.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun	
AE Mode	Auto ▾
Slow Shutter	<input type="radio"/> Off <input checked="" type="radio"/> On
Gain Limit	5 (Default:5, 0 ~ 10)
Exposure Comp	0.0dB ▾
Shutter Speed	1/30 ▾
IRIS Level	F1.6 ▾

- AE Mode: Changes the automatic exposure mode
 - Auto : Automatically adjusts exposure values
 - Manual : Set exposure values manually
 - Shutter priority : Set the exposure value in shutter priority mode
 - Iris priority : Set the exposure value in Iris priority mode
- Slow Shutter : Unlocks the shutter speed limit in a dark environment.
- Gain Limit : Selects the automatic gain adjustment mode. (Auto Gain Control Mode)
- Exposure Comp : Adjust exposure compensation. (Exposure Compensation)
- Shutter Speed : Activates when auto exposure mode is Shutter Priority. Manually adjust the shutter speed.
- IRIS Level : Activates when auto exposure mode is set to Iris Priority. Adjusts the Iris level.

6.4. WDR

This is the menu to set the WDR function.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun	
WDR Mode	<input checked="" type="radio"/> Off <input type="radio"/> On
WDR Level	High ▾
ACE Mode	Mid ▾
BLC Mode	<input checked="" type="radio"/> Off <input type="radio"/> On

- WDR Mode: Select WDR mode (Wide Dynamic Range)
- WDR Level : Adjust the WDR level.
- ACE Mode: Adjusts the ACE (Digital WDR) level.
- BLC Mode : Select BLC (Back Light Compensation) mode.

6.5. Day & Night

This is a menu to set day/night conversion.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun		
Day&Night Mode	Auto	▼
ICR Type	CDS	▼
ICR Sensitivity	High	▼
Aperture Gain	6	(Default:6, 0 ~ 10)
DNR Level	Auto	▼
Defog Level	Off	▼
Flickerless	<input checked="" type="radio"/> Off	<input type="radio"/> On
ICR GAP	Mid	▼
IR DET Level	Mid	▼

- Day & Night Mode : Adjust day/night switching mode.
- ICR Type : Adjust ICR operating conditions.
 - ICR : Day/night switching is done using the camera's CDS sensor.
 - AGC : Day/night switching is done using the camera's gain.
- ICR Sensitivity : Adjust the ICR sensitivity.
 - It can be set to low, medium, and high, and sets the sensitivity for switching between day and night.
 - The higher the setting, the darker it gets and it switches to black and white.
- Aperture Gain : Adjust the aperture sensitivity.
- DNR Level : Adjust the noise reduction level. (Digital Noise Reduction)
- Flickerless : Select anti-flicker mode.
- ICR GAP : Activated when the ICR type is AGC. Sets the day/night switching sensitivity..
 - The higher the setting, the darker it gets and it switches to black and white.
- IR DET Level : Adjust the IR operating threshold level.

6.6. Image

This menu is used to configure image-related settings.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun		
HLC Mode	<input checked="" type="radio"/> Off	<input type="radio"/> On
HLC Level	19	(Default:19, 0 ~ 20)
Stabilizer	<input checked="" type="radio"/> Off	<input type="radio"/> On
STAB Range	10%	▼
Gamma Level	0.45	▼

- HLC Mode : Select HLC (High Light Compensation) mode.
- HLC Level : Adjust the HLC level.
- Stabilizer : Select the stabilizer mode.

- STAB Range : Select the stabilizer range.
- Gamma Level : Select the gamma level.

6.7. Device

This is a menu to configure device-related settings.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun		
ProPortional	200	(Default:200, 0 ~ 230)
Power Up	<input checked="" type="radio"/> Off <input type="radio"/> On	
Image Freeze	<input checked="" type="radio"/> Off <input type="radio"/> On	
IR Adjust	10	(Default:10, 0 ~ 10)
Auto Flip	<input type="radio"/> Disable <input checked="" type="radio"/> Enable	

- Proportional : Limits the PT speed in proportion to the zoom.
- Power up : Remember the last location when rebooting.
- Image Freeze : Freezes the image while moving the preset .
- IR Adjust : Adjust the IR brightness.
- Auto Flip : Pan rotates 180 degrees at the maximum tilt angle and keeps going down.

6.8. AutoRun

This is a menu to set the PTZ function to be executed automatically.

The function set here operates automatically even if the power is turned off and then turned on.

Zoom&Focus WB AE WDR Day&Night Image Device AutoRun		
Auto Run Motion	None	▼
Auto Run Time	10Sec	▼
Auto Run Number	1	▼
Alarm On	<input checked="" type="radio"/> Off <input type="radio"/> On	
Alarm Number	1	▼
Preset Number	1	▼

- Auto Run Motion : Select the motion to be used for Auto Run. (Preset, Tour, Group, Swing)
- Auto Run Time : Select the time to run Auto Run .
- Auto Run Number : Select the number of actions to be used for Auto Run.
- Alarm On : Select whether or not to operate an alarm.
- Alarm Number : Select the alarm number for alarm operation.
- Preset Number : Select the preset number to operate in case of an alarm.



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