

# **USER'S MANUAL**

## **2 Megapixel IR Dome Camera (MV-H26A-22)**

Before installing and using the camera, please read this instructions thoroughly and keep for reference.

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# PRECAUTIONS

- **Avoid prolonged use in high temperature and high humidity environment**  
Use the product within the operating range specified in the specifications.  
Avoid locations where heat is generated, and Install in a well-ventilated place.
- **Do not install the camera in an unstable place**  
Confirm that the camera is firmly fixed after installation.  
Dropping the product due to poor installation may cause injury.
- **Install the camera away from dusty places**  
This may cause product malfunction, poor image quality, fire or electric shock.
- **Do not install the camera under unstable lighting conditions**  
It is possible to output an inappropriate image due to severe illumination change or lighting flickering.
- **Do not install the camera near gas or oil leaks**  
Use in a place with flammable materials may cause fire.  
Also, keep distance from power line cables or use separate metal piping.
- **Do not disassemble the camera or insert foreign objects**  
There is no warranty liability for products that user disassembled.
- **Do not drop the camera or shock it**  
It may cause malfunction.
- **Never keep the camera directly face to strong light.**  
Exposure to strong light such as sunlight may cause light spreading or light blurring. In addition, direct sunlight can damage the image sensor.
- **Prepare for malfunction due to natural disasters**  
The grounding work or the installation of the surge protector can minimize damage to the product due to lightning, etc.
- **Be sure to check the specifications of the power supply**  
Before connecting the power to the product, make sure that the power supply meets the recommended specifications.

# INTRODUCTION & FEATURES

## Product Introduction

MV-H26A-22 is a high resolution network camera which can compress video and audio in real time, transmit the compressed data through the network.

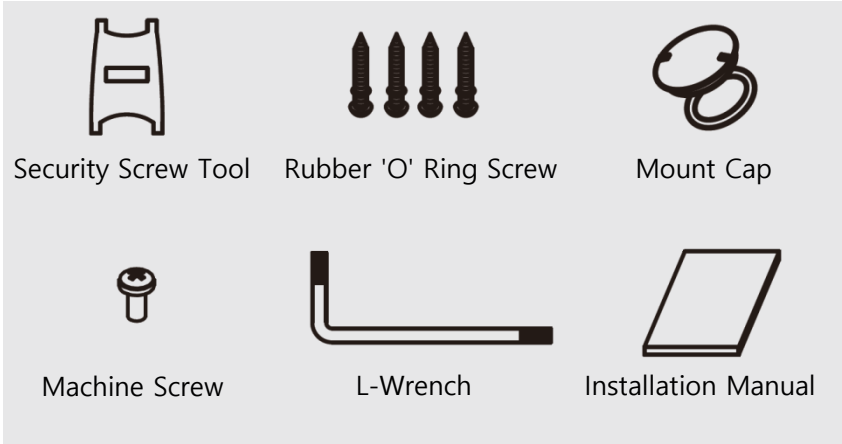
This camera contains 2 megapixel high resolution CMOS image sensor, Image signal processor(ISP), video encoder, web server and network interface block inside. In addition, Because the camera has built-in IR LED, it can provide clear video image even at night time.

## Features

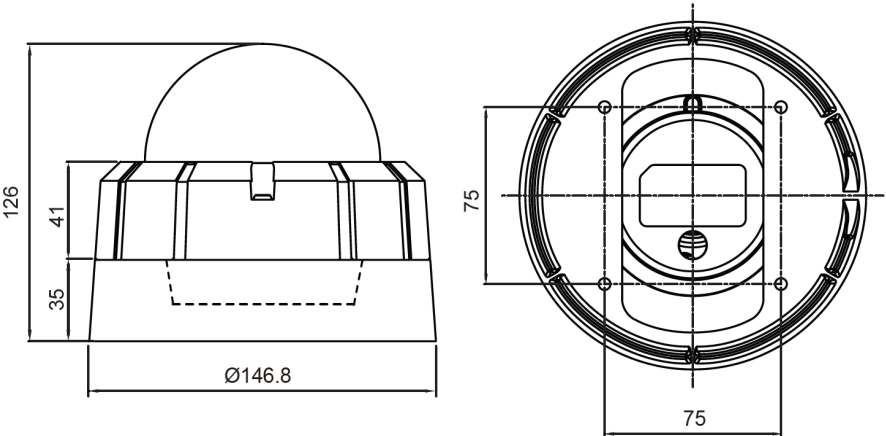
- 1/2.8", 2 megapixel Sony Starvis CMOS sensor
- 2.8~12mm Motorized Zoom Lens
- Remote control of Zoom & Focus
- 2D/3D DNR (Digital Noise Reduction)
- D WDR (Digital Wide Dynamic Range)
- Triple Video Streams
- H.265, H.264, MJPEG Video encoding
- Built-in web server
- ONVIF compatible
- PoE & DC12V
- IP66, Aluminum Diecasting Housing
- Built-in 22pcs of IR-LED

# ACCESSORIES & DIMENSIONS

## Accessories

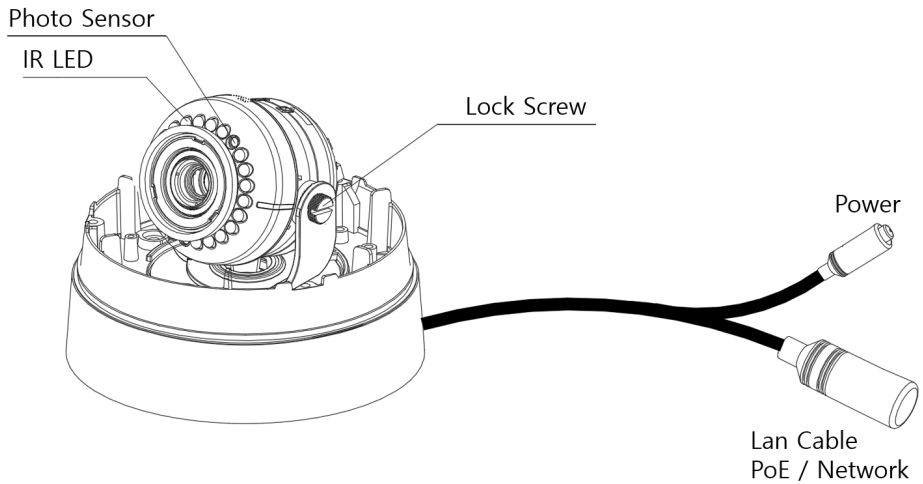


## Dimensions (Unit : mm)



# CONNECTORS

## Connectors



Name	Detailed Description
Power	Connect to a DC12V power supply. In case of using PoE power, do not connect anything.
LAN Cable	Connect to the Network cable. You can supply camera power using PoE.

# INSTALLATION

## 1. Dome Base Bracket Mounting

- Using the supplied 4 screws, mount the dome base bracket to wall or ceiling.

## 2. Dome Base Mounting

- Mount the dome base into the base bracket and secure it with screws.

## 3. Supply of Power

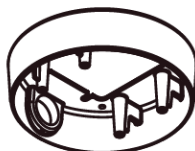
- Supply DC12V or PoE power to camera.
- To prevent fire or electric shock, use a reliable power supply.

## 4. Camera Angle Adjustment

- Adjust the camera gimbal in the desired direction.
- After network connection, zoom and focus can be adjusted through zoom/focus buttons on the web browser.

## 5. Mounting the Dome Cover

- Using the supplied L-wrench, mounting the dome cover to dome base.



Base Bracket



Mount Cap



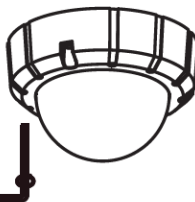
Rubber 'O'ring screw



Dome Base



Screw



Dome Cover



L-Wrench

# WEB BROWSER ACCESS

Camera's default IP address is "192.168.1.30", but User name and Password is not configured in advance. Administrator's account should be created on the first access to the camera. Open an Internet Explorer browser and access to 192.168.1.30 then below window will appear.

## Creation of administrator's account

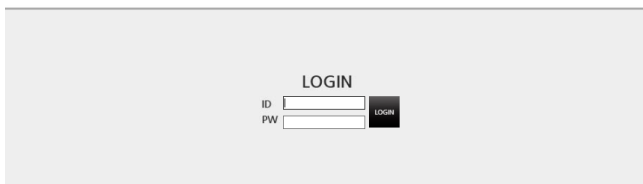


A dialog box titled "Create Administrator" with a close button in the top right corner. It contains three input fields: "User Name" (with a cursor), "New Password", and "Confirm Password". Below these fields, there are four lines of text defining character groups: "Group1 : [0~9]", "Group2 : [a~z]", "Group3 : [A~Z]", and "Group4 : [-!@%^&\*()\_~|<>.,'/"]". At the bottom right of the dialog is a "Save" button.

Enter the user name (ID) and password you want to use, and click the "Save" button then initial access page will appear as shown below.



## Network Camera Manager



A login page titled "LOGIN" in the center. Below the title are two input fields: "ID" and "PW". To the right of the "PW" field is a black button with the word "LOGIN" in white text.



# WEB BROWSER ACCESS

If you click the login button after entering newly created account information, camera's setting page is displayed as below. Click the "LIVE" button to view the live video.

admin | Logout

LIVE | SETUP | EVENT

Basic Configuration

- Network
- Video
- System

Advanced Configuration

- > Network
- > Camera
- > System

Network Settings

☐ DHCP

MAC Address: 40:04:0C:02:D5:CC

IP Address: 192.168.1.30

Subnet Mask: 255.255.255.0

Default Gateway: 192.168.1.1

DNS Server

First DNS: 168.126.63.1

Second DNS:

Port

HTTP Port: 80 [80, 3000 ~ 60000]

RTSP Port: 554 [554, 3000 ~ 60000]

Save

## ActiveX Installation

If this is the first access to LIVE view, you can not get video and you will be prompted to install additional plugin as shown below. Click allow and proceed the installation.

admin | Logout

LIVE | SETUP | EVENT

main stream

960x540 (16:9)

PC Speaker

PC MIC

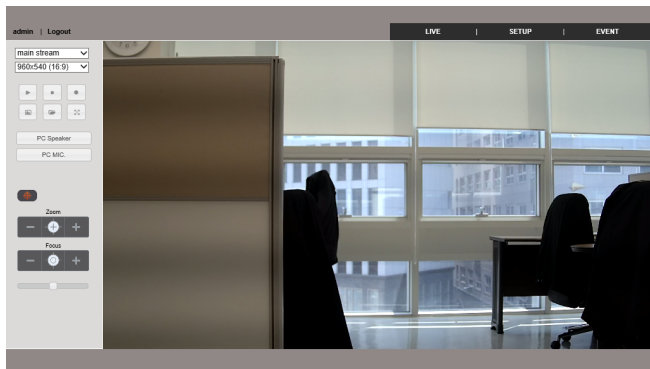
Zoom

Focus

이 웹 페이지에서 com(승용되지 않은 게시자)에서 제공한 NetV\_WebLocr 추가 기능을 실행하려고 합니다. [취급성\(??\)](#)

## Live video

After the installation of ActiveX is completed, video image from IP camera is displayed as below.



## Control buttons on Live page

main stream

 : Select a video stream  

960x540 (16:9)

 : Select a resolution to display  
 : Display real time video  
 : Stop real time video display  
 : Start/Stop video recording  
 : Save current image  
 : Path of recorded video clip and saved image  
 : Full screen display  

PC Speaker

 : Speaker Enable/Disable  

PC MIC.

 : Mic Enable/Disable  

Zoom

Focus

 : Zoom/Focus Control (Speed control via slider)

# BASIC CONFIGURATION

## Network

You can change the network settings of IP camera.

admin | Logout

Basic Configuration

Network

Video

System

Advanced Configuration

Network

Camera

System

LIVE | SETUP | EVENT

Network

Network Settings

☐ DHCP

MAC Address48 04 0C B2 D5 CC

IP Address192.168.1.30

Subnet Mask255.255.255.0

Default Gateway192.168.1.1

DNS Server

First DNS168.126.63.1

Second DNS

Port

HTTP Port8080, 3000 ~ 60000

RTSP Port554554, 3000 ~ 60000

Save

## Video

You can configure the properties for up to 3 video streams.

admin | Logout

Basic Configuration

Network

Video

System

Advanced Configuration

Network

Camera

System

LIVE | SETUP | EVENT

Video

Main stream

Sub stream 1

Sub stream 2

☒ Enable

Resolution1920x1080

Video EncodeH.264

Video ProfileMain

Frame Rate301 ~ 30

Quality401 ~ 100

Bitrate4096128 ~ 8192

Bitrate TypeCBR

Key Frame Interval301 ~ 60

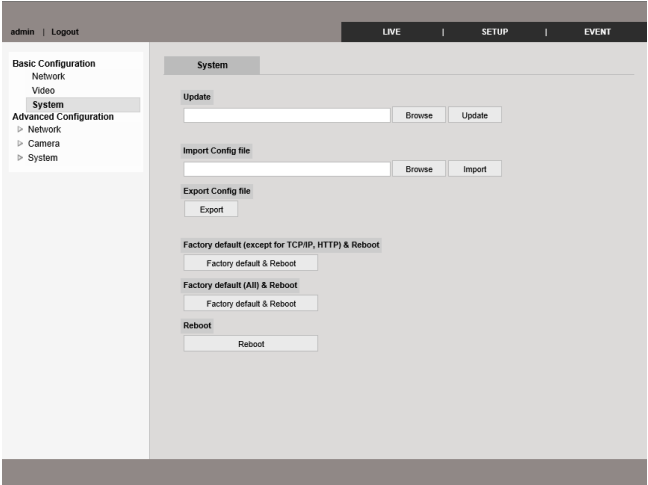
URLrtsp://192.168.1.30:554/stream1

Save

# BASIC CONFIGURATION

## System

You can do Camera update, Import & Export of setting file, Factory default, Reboot.



# ADVANCED CONFIGURATION

## TCP/IP

You can change network type, network settings.

admin | Logout

LIVE

SETUP

EVENT

Basic Configuration

Network

Video

System

Advanced Configuration

Network

TCP/IP

RTSP

HTTP

ONVIF

Camera

System

TCP/IP

NIC Setting

Type

Auto

Network Settings

☐ DHCP

MAC Address

40:04:0C:02:D5:CC

IP Address

192.168.1.30

Subnet Mask

255.255.255.0

Default Gateway

192.168.1.1

DNS Server

First DNS

168.126.63.1

Second DNS

Save

## RTSP

You can configure RTSP and Multicast entries.

admin | Logout

LIVE

SETUP

EVENT

Basic Configuration

Network

Video

System

Advanced Configuration

Network

TCP/IP

RTSP

HTTP

ONVIF

Camera

System

RTSP

RTSP

RTSP Port

554

[554, 3000 ~ 60000]

RTSP Timeout

120

RTSP Authentication

OFF

RTSP Port

40000 ~ 40100

[40000 ~ 60000]

☒ Use RTCP

☒ Use Multicast

Multicast Video Address

239.249.119.123

Multicast Audio Address

239.249.119.124

Multicast Event Address

239.249.119.125

Multicast Port

41000 ~ 41100

[40000 ~ 60000]

Multicast TTL

5

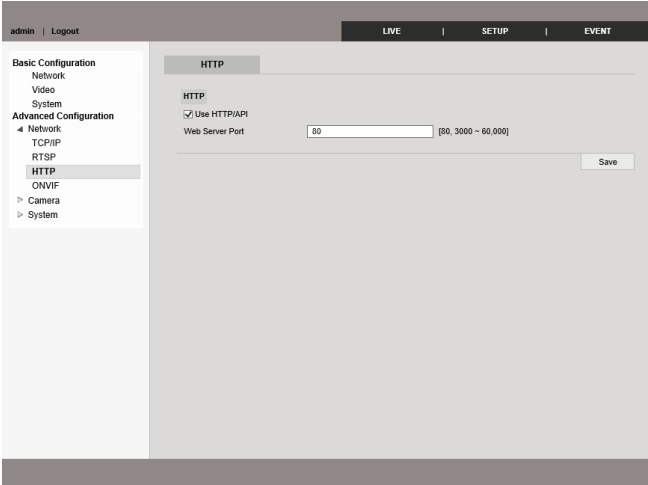
Save

13

# ADVANCED CONFIGURATION

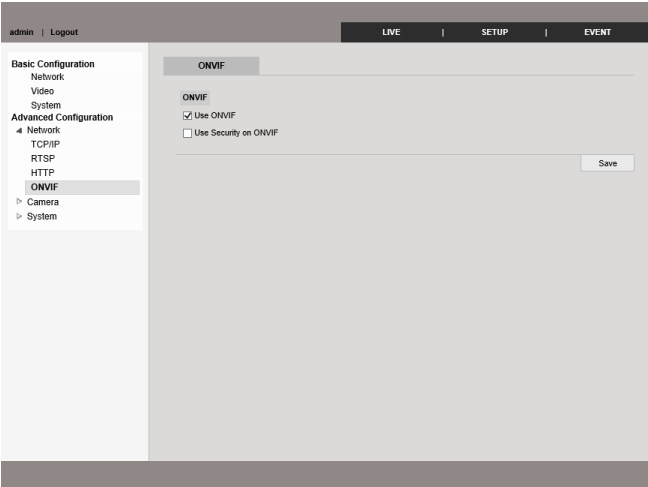
## HTTP

You can decide the use of HTTP API and change the connection port of web browser.



## ONVIF

You can decide whether to use ONVIF.



# ADVANCED CONFIGURATION

## Video

You can configure the properties for up to 3 video streams.

admin | Logout

LIVE | SETUP | EVENT

Basic Configuration

Network

Video

System

Advanced Configuration

Network

Camera

**Video**

Video Mode

Audio

Day / Night

OSD

Privacy Zone

Image Adjustment

White Balance

WDR

DNR

Exposure

Defog

PTZ

System

Video

Main stream

Sub stream 1

Sub stream 2

☒ Enable

Resolution

1920x1080

Video Encode

H.264

Video Profile

Main

Frame Rate

30

Quality

40

Bitrate

4096

Bitrate Type

CBR

Key Frame Interval

30

URL

rtsp://192.168.1.30:554/stream1

Save

## Video Mode

You can configure Mirror, Rotate, Scanning frequency, External video On/Off.

admin | Logout

LIVE | SETUP | EVENT

Basic Configuration

Network

Video

System

Advanced Configuration

Network

Camera

Video

**Video Mode**

Audio

Day / Night

OSD

Privacy Zone

Image Adjustment

White Balance

WDR

DNR

Exposure

Defog

PTZ

System

Video Mode

Video Mode

Mirror

Normal

Rotate

OFF

Video Standard

NTSC/60Hz

External Video

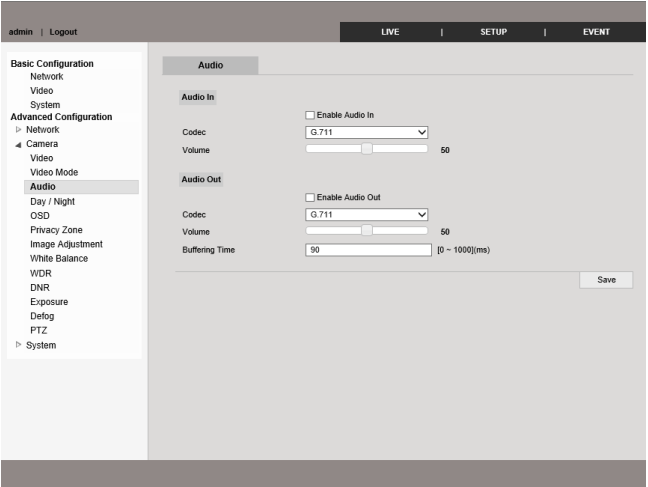
OFF

Save

# ADVANCED CONFIGURATION

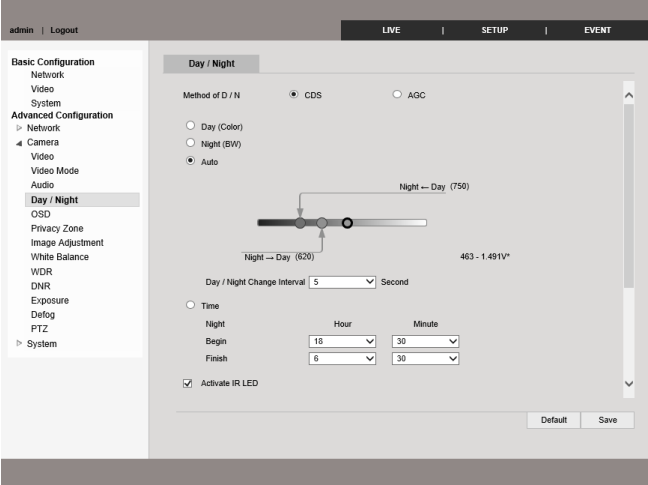
## Audio

You can configure Audio related parameters.



## Day/Night

You can configure Day/Night details related to IR-Cut Filter operation.

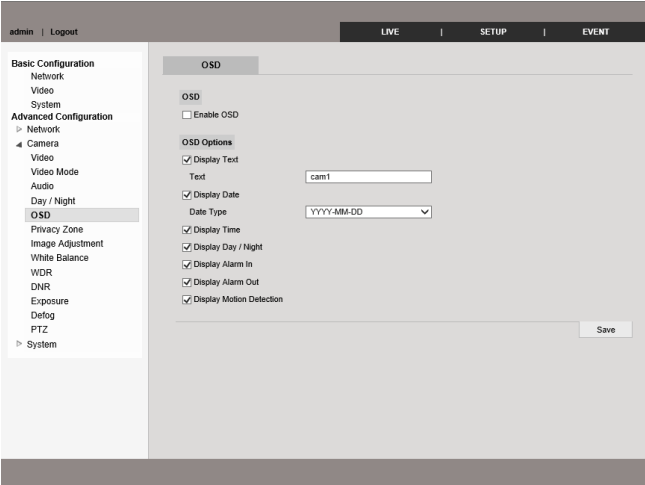




# ADVANCED CONFIGURATION

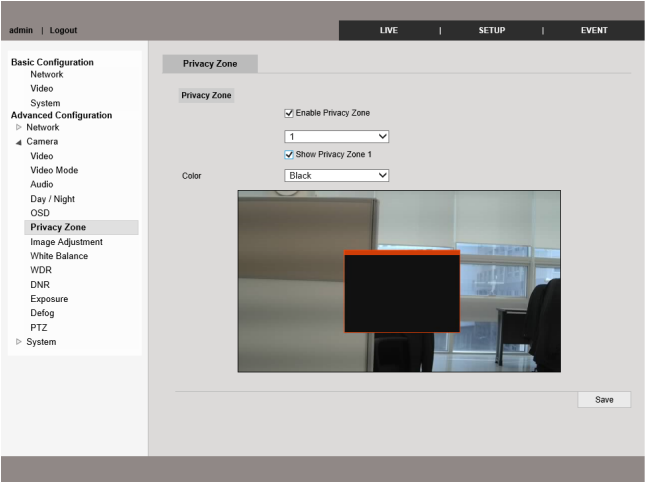
## OSD

You can specify OSD items which are displayed on the screen.



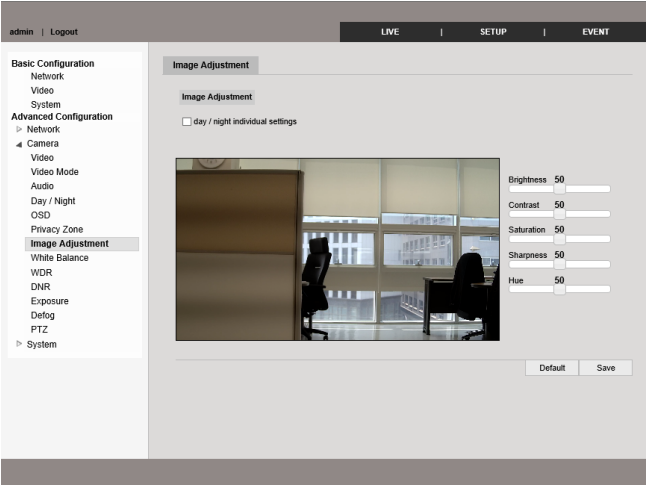
## Privacy Zone

You can specify up to 8 privacy masking zones.



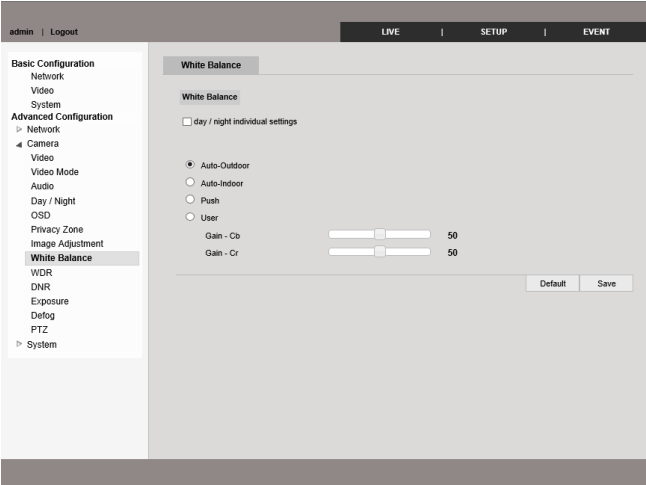
## Image Adjustment

Brightness, Contrast, Saturation, Sharpness, Hue can be adjusted.



## White Balance

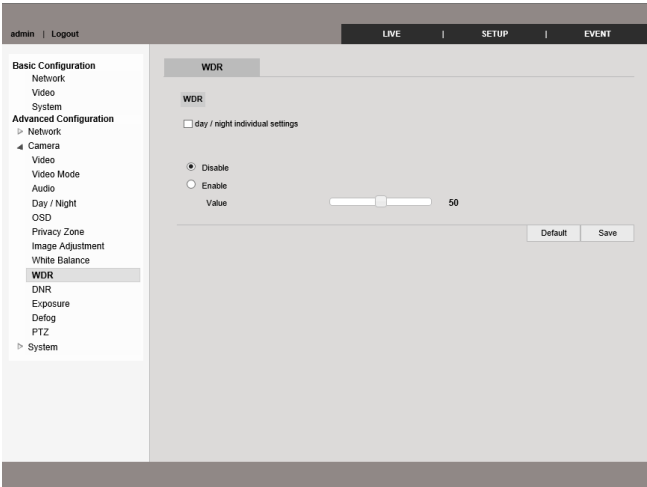
White Balance can be selected among Auto, One-Push, User defined mode.



# ADVANCED CONFIGURATION

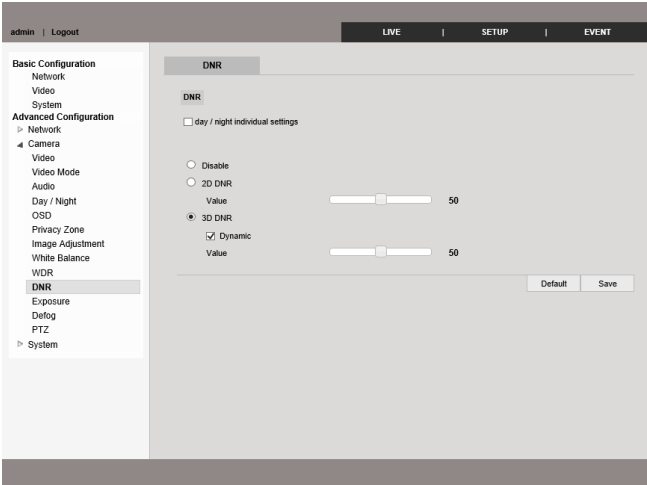
## WDR

You can decide whether to use WDR function, and set its level.



## DNR

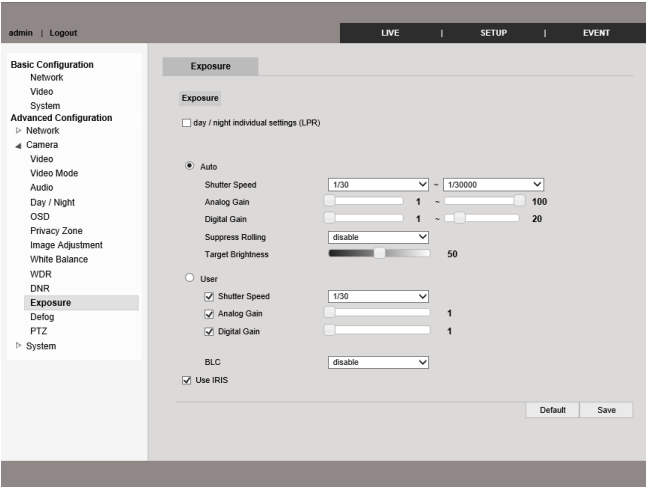
You can decide whether to use 2D/3D DNR, and set their levels.



# ADVANCED CONFIGURATION

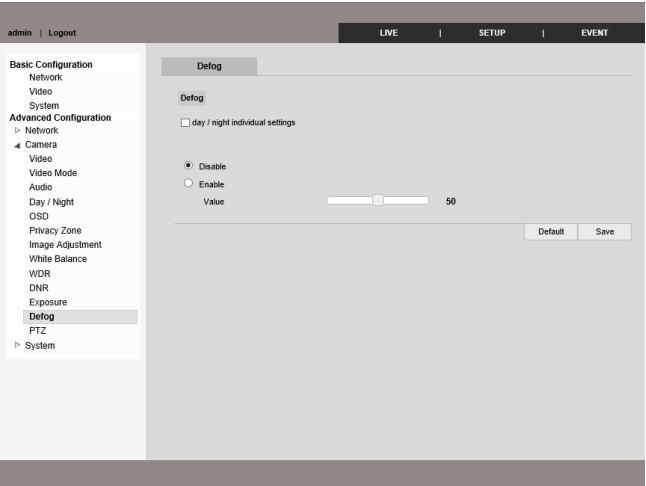
## Exposure

You can configure Exposure mode, Range of shutter speed control, AGC level, etc which are related to camera's brightness control.



## Defog

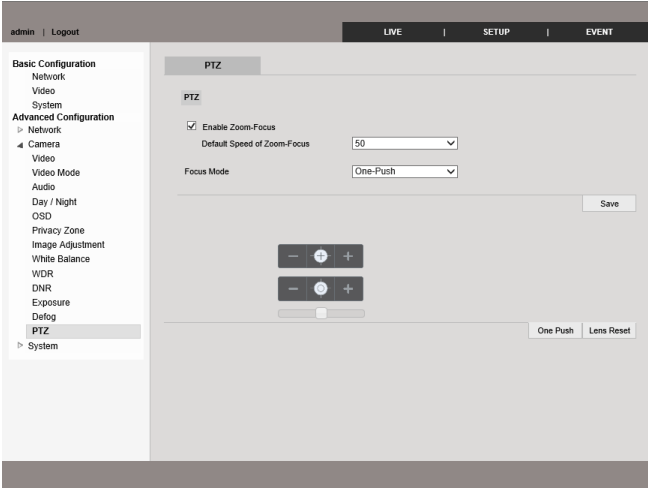
You can decide whether to use Defog function, and set its level.



# ADVANCED CONFIGURATION

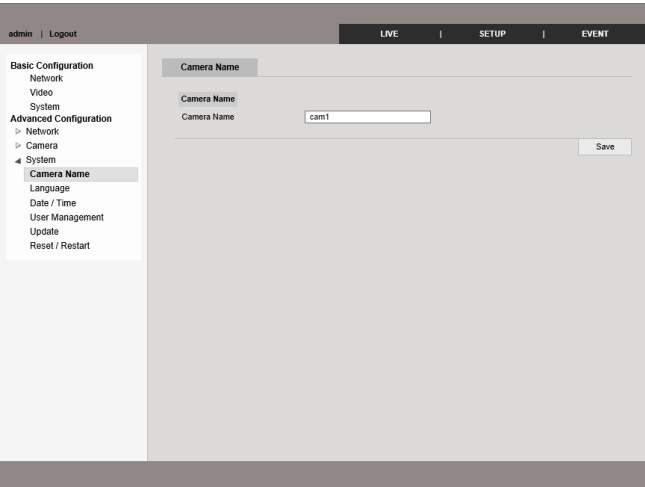
## PTZ

You can decide whether to use the zoom/focus operation, and set the default operation speed and focus mode.



## Camera Name

You can specify camera name.



# ADVANCED CONFIGURATION

## Language

It is applied to setting pages, and you can select among English, Korean and Japanese.

The screenshot shows a web interface for advanced configuration. At the top, there is a navigation bar with 'admin | Logout' on the left and 'LIVE | SETUP | EVENT' on the right. A sidebar on the left contains a menu with 'Basic Configuration' (Network, Video, System) and 'Advanced Configuration' (Network, Camera, System). Under 'System', 'Language' is selected and highlighted. The main content area is titled 'Language' and contains a 'Language' dropdown menu currently set to 'English'. A 'Save' button is located at the bottom right of the configuration area.

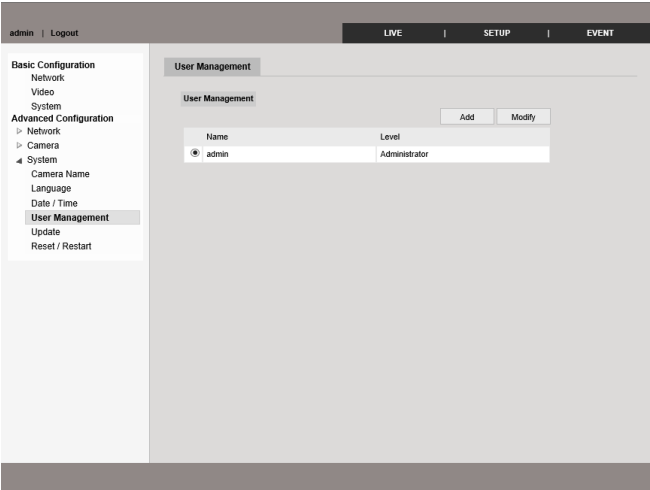
## Date/Time

You can configure Time Zone, Synchronization with Time Server, Manual settings.

The screenshot shows a web interface for advanced configuration. At the top, there is a navigation bar with 'admin | Logout' on the left and 'LIVE | SETUP | EVENT' on the right. A sidebar on the left contains a menu with 'Basic Configuration' (Network, Video, System) and 'Advanced Configuration' (Network, Camera, System). Under 'System', 'Date / Time' is selected and highlighted. The main content area is titled 'Date / Time' and contains several settings: 'Time Zone' with a dropdown menu showing '(GMT+09:00) Seoul, Tokyo, Osaka, Sapporo'; 'Time Sync.' section with 'NTP' selected, 'Server Address' set to 'time.nist.gov', 'NTP Port' set to '123', and 'Interval' set to '24' hours; 'Manual Device Time' section with a date/time field set to '2019-03-26 21:49:53'; and a 'Set Time' section with a checkbox for 'Sync. with PC Time'. A 'Save' button is located at the bottom right of the configuration area.

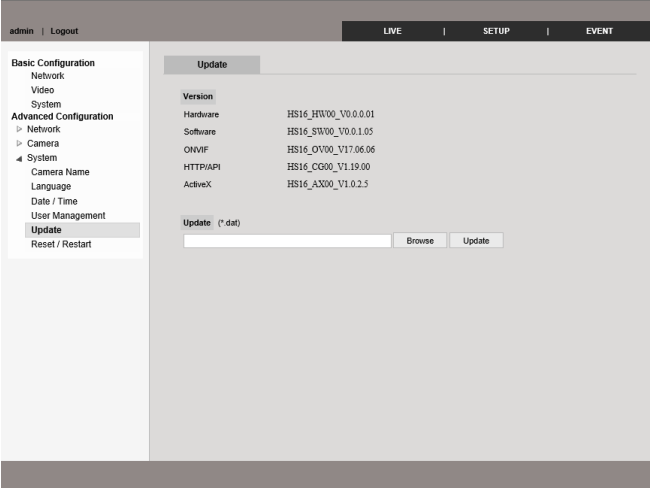
## User Management

You can add/delete user account, and set permissions for each user.



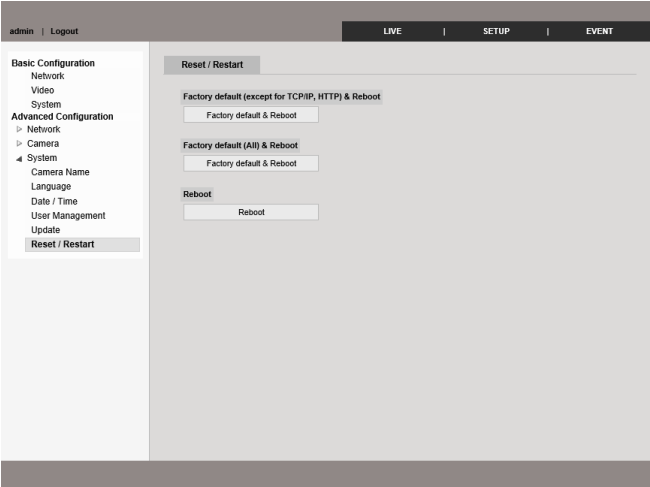
## Update

Camera's firmware can be updated through this page.



## Reset/Restart

You can restore all settings to factory default, restart camera.





Alarm

Alarm Input and Alarm Output can be configured.

admin | Logout

LIVE | SETUP | EVENT

4 Event

- Alarm
- Motion Detection

Alarm

Alarm input

☐ Use Alarm Input

Type

☐ NC (Normal Close) ☒ NO (Normal Open)

Duration

100ms

Alarm Output

☐ Use Alarm Output

Event Type

☐ Motion Detection☒ Alarm Input

Duration

5

Alarm in Test

Alarm out Test

Save

Motion Detection

You can decide whether to use Motion Detection, and set sensitivity, areas, etc.

admin | Logout

LIVE | SETUP | EVENT

4 Event

- Alarm
- Motion Detection

Motion Detection

Motion Detection

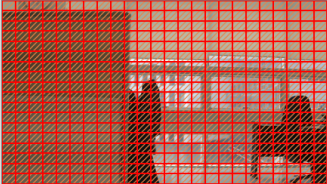
☐ Use Motion Detection

Sensitivity

3

Event Duration Time

3



Select All

Clear

Save

# SPECIFICATIONS

Camera	
Image Sensor	1/2.8" Sony Starvis CMOS Image Sensor
Total Pixel	1945(H) x 1109(V) = 2.16 megapixel
Active Pixel	1945(H) x 1097(V) = 2.13 megapixel
Scan System	Progressive
Min. Illumination	Color : 0.01 lux, BW : 0.001 lux, Color DSS : 0.001 lux, BW DSS : 0.0001 lux IR On : 0 lux
S/N Ratio	More than 50dB (AGC off)

Lens				
Lens type		Megapixel Motorized Lens		
Focal Length		f = 2.8~12mm		
Aperture		F1.4		
Angle of View (D, H, V)	Wide	134°	108°	57°
	Tele	39°	33°	19°

Camera Functions	
Day & Night	Auto / Day / Night
Privacy Zone	On / Off (Up to 8 Zones)
Motion Detection	On / Off (Up to 48 Zones, Sensitivity 1~5 Step)
D-WDR	On / Off (1~3 Step)
DNR	2DNR, 3DNR
Defog	On / Off
LSC	On / Off
Shutter Control	Auto (1/30~1/30000sec), Suppress Rolling, Manual
Image Adjustment	Bright / Contrast / Saturation / Sharp / Hue
White Balance	Auto Indoor / Auto Outdoor / Push / User
OSD Display	On / Off (Text, Date, Time, Event)
Video Mode	Normal / Mirror(H) / Flip(V) / Both(H/V)

# SPECIFICATIONS

Network	
OS	Embedded Linux
Interface	RJ45 10/100 Base-T, PoE
Protocol	TCP/IP, UDP/IP, RTP, RTSP, RTCP, NTP, HTTP, DHCP, FTP, SMTP, DNS
ONVIF	Ver17.06.05
Concurrent Access	Up to 10 users
Compression Format	H.265 / H.264 / MJPEG
Resolution	1920×1080 / 1280×1024 / 1280×960 / 1280×720 / 1024×768 / 640×480 / 320×240
Performance	30fps@all resolution
Video Quality Control	H.265, H.264 : Bitrate Control MJPEG : Quality Level Control
Streaming	Triple Stream
Client OS	Windows XP, 7, 8, 10
Web Browser (Manage)	IE 11, Firefox, Safari, Opera
Web Browser (View)	IE 11 Only (Active-X)

General Specifications	
Power	DC12V±10%, PoE IEEE802.3af, Class3
Power Consumption	DC12V, 560mA
Operation range	-10°C~+50°C / 0%~90% RH
Dimensions	146.8(ø) x 126(H)mm
Weight	Approx. 1.0Kg

Note. Audio and alarm may not be supported according to the model

P/N :  
PRINTED IN KOREA

Distributed by

날짜	내용	비고
19.09.24	p.27 Alarm, Audio 삭제	
19.11.11	Dome 그림 변경 (P6) 센서입력 삭제 (P27)	영문 최초작성