

Preliminary

801-IP-678

8MP IP Camera, Sony IMX678



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2. Warning and Safeguards

Read instructions before operating the camera

- Please read/follow all instructions and read all warnings before operating the camera.
- Installation and servicing should only be done by Qualified Service and Installation Personnel.
- Installation shall be done in accordance with all local and national electrical and mechanical codes.
- Avoid mounting in direct sunlight.
- To reduce the risk of fire or electric shock, do not expose this appliance to rain, water or wet locations.
- If the camera is to be mounted outdoors a secondary waterproof enclosure should be used.

2.1 Precautions

- Do not put objects inside the unit. Make sure that no metal objects or flammable substances get inside the camera. It could cause fire, short-circuits or damage.
- Be careful when handling the unit.
- To prevent damage, do not drop the camera or subject it to strong shock or vibration.
- Install away from electric or magnetic fields.
- Protect the camera from humidity, dust and high temperatures.
- Be careful when installing it close to the ceiling, in a kitchen or boiler room, as the temperature may rise to high levels.
- Cleaning - Dirt can be removed from the cabinet only by wiping it with a soft cloth moistened with a soft detergent solution.
- Mounting Surface - The mounting surface material must be strong enough to secure the camera.
- Avoid viewing a very bright object (such as light fittings) during an extended period.

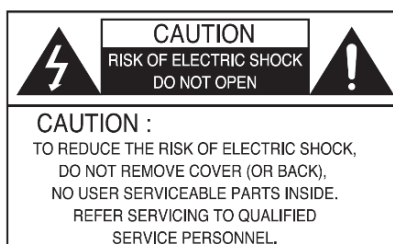
2.2 Care of the Unit

- Remove dust or dirt on the surface of the lens with a blower (commercially available).
- Avoid the use of volatile solvents such as thinners, alcohol, benzene and insecticides. They may damage the surface finish and/or impair the operation of the camera.
- Be careful not to spill water or other liquids on the unit.

2.3 Operating and Storage Location

- Consult the datasheet of the camera for temperature limits and guidance.
- Avoid damp or dusty places.
- Avoid places exposed to rain.
- Avoid places subject to strong vibration.

- Avoid places close to generators of powerful electromagnetic radiation such as radio or TV transmitters.
- If the product is to be put out of operation definitively, take it to a local recycling plant for disposal which is not harmful to the environment.



3. Document History

Document History

Revision	Issue Date	Reason
A	12/10/2025	Initial release
B	12/19/2025	Added UI changes, updated recording information, fixed some mistakes.

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4. Introduction

This document will explain how to set up your 801-IP-678-xyzpq, an IP camera with the following highlighted features:

- 8 Megapixel, 30fps, Sony® STARVIS 2 IMX678 1/1.8 Sensor
- RTSP and WebRTC video streaming
 - o 3 configurable streams
 - o H.264 and MJPEG format support
- Fast Ethernet (also known as 10/100 Ethernet)
 - o Full duplex communication
- SD card storage (optional)
 - o Supports different storage sizes
- HTTPS and FTP server functionality
- Linux RISC-V architecture - Open-source processor and operating system
- Fully configurable via Videology's web interface and HTTPS API interface
- ONVIF protocol support

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5. Configuration

5.1 Hardware

A multi-pin connector supplies both power and network connections. The package includes a breakout cable with a standard 12 V DC power connector and an RJ-45 network jack. Connect the cable to a 12VDC power source and a network that supports DHCP. Direct connection to a PC will not work. You will need either a router with a DHCP server or access to a local DHCP-enabled network through a switch.

5.2 Network Address

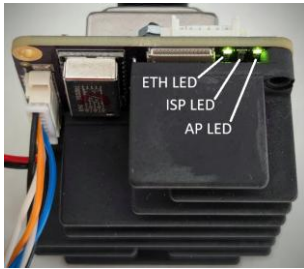


Figure 1 Indicator LEDs

Connect the camera to a DHCP-enabled network. A DHCP-enabled network automatically manages the IP addressing on the network. Power on the camera by connecting the 12 V DC supply. Once the green LED labeled 'ETH' on the back of the camera board lights up steadily, the camera will be available on the network.

To find the camera's IP address, you can use a network scanning tool. Alternatively, use ONVIF Device Manager (ODM) or another ONVIF-compatible management tool if the camera is connected to the same network. These tools automatically detect ONVIF devices and display their IP addresses in the device list. For additional assistance, please contact your IT department.

5.3 Web Interface

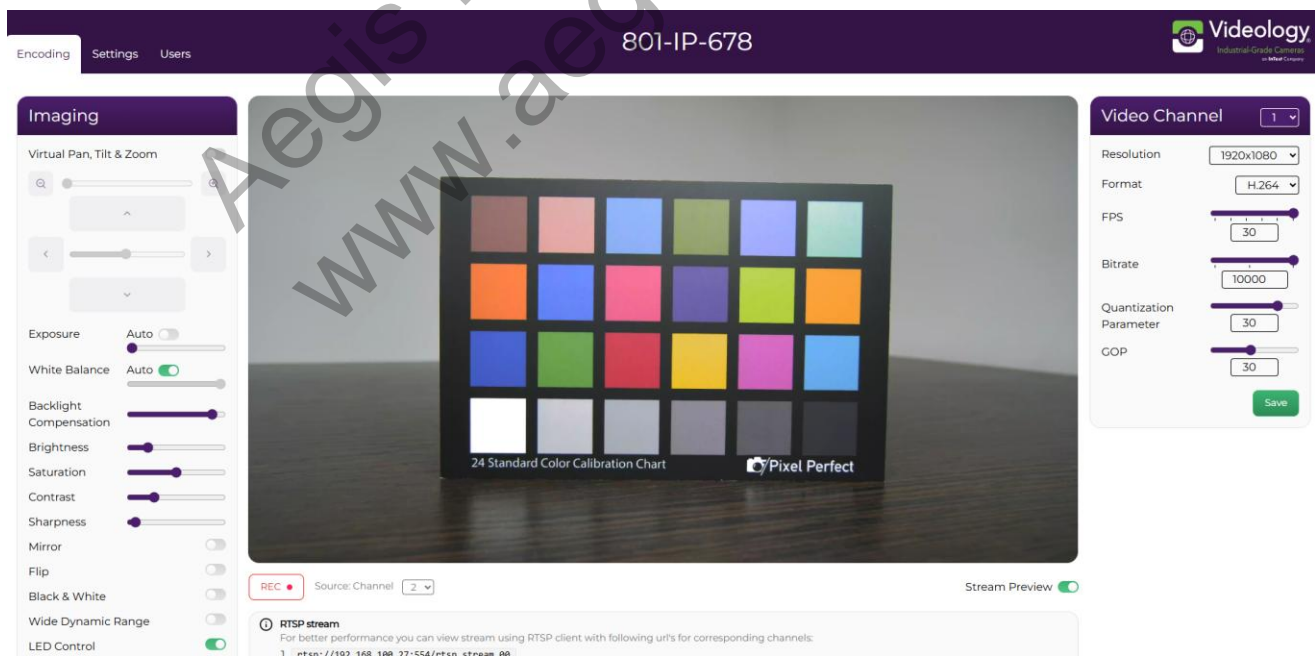


Figure 2 Web Interface

The web interface allows users to configure a wide range of system settings and functions, including image and encoding parameters, network configuration, date and time setup, firmware updates, user management, video streaming and recording, and SD card formatting.

For more information, please refer to Chapter 6, where each feature and setting is explained in detail.

5.4 RTSP Video Stream

In addition to the WebRTC stream available through the web interface, the camera also supports RTSP streaming via third-party applications. A media player that supports RTSP streaming is required, such as the VLC media player or similar one.

Use the address with the camera’s IP (in this example: 192.168.0.108) and the following suffix:

i **rtsp://192.168.0.108:554/rtsp_stream_00**

The last two numbers after “stream_” determines which channel is displayed.

- Channel 1: rtsp_stream_00
- Channel 2: rtsp_stream_01
- Channel 3: rtsp_stream_02

RTSP stream URLs are automatically generated for each channel and can be copied directly from the web interface. These URLs are located below the corresponding video stream.

5.5 VLC Media Player Example

VLC Media Player can be used to view the stream from the camera. It is an open-source program available for download from the Internet. The following steps explain how to view the camera stream in VLC.

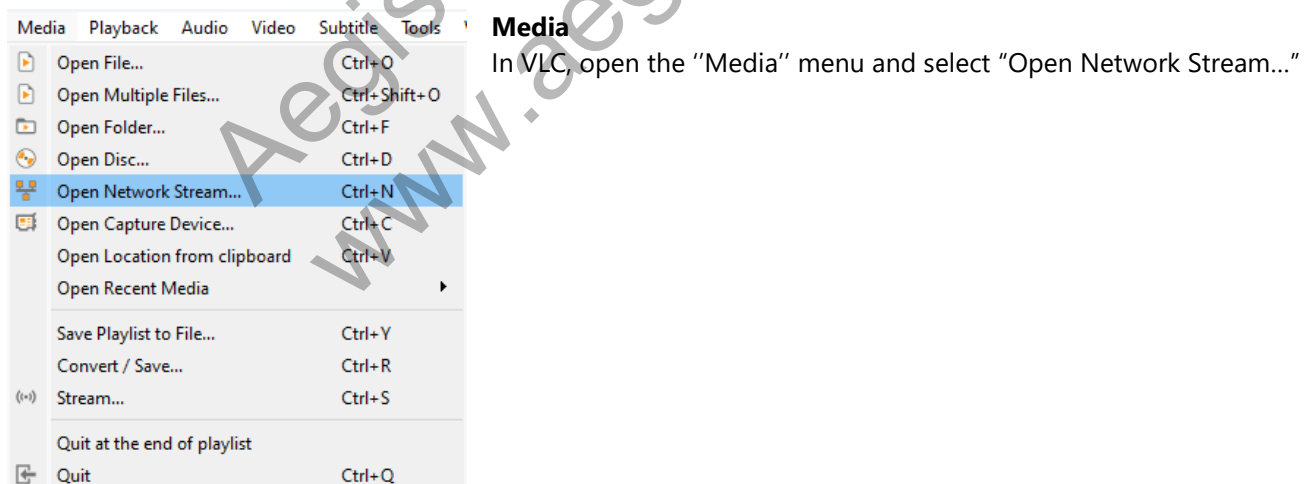


Figure 3 Media

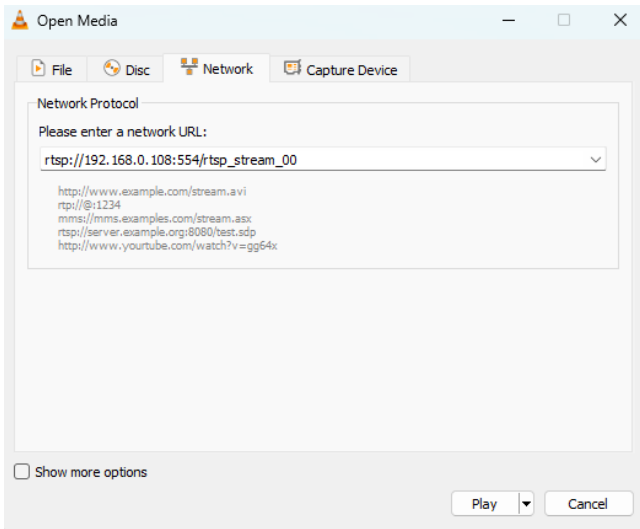


Figure 4 Network

Open Media

In the Network tab, enter the network URL of the camera. Use the format explained in paragraph 5.4.

Format

rtsp://IP-ADDRESS:554/rtsp_stream_00

Example:

rtsp://192.168.0.108:554/rtsp_stream_00

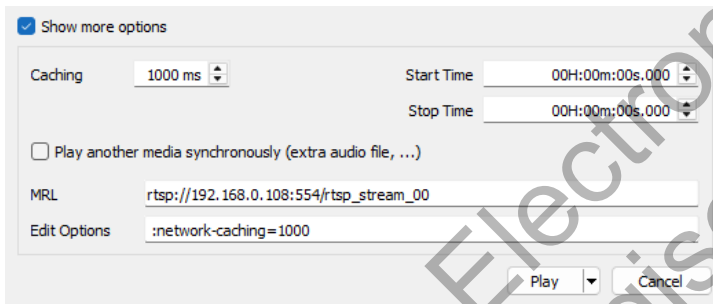


Figure 5 Show more options

Show more options

At the bottom of the Open Media window, check the 'Show more options' box. This will open an extended menu.

Caching

VLC stores a portion of the video stream in memory, to ensure smooth playback and reduce interruptions caused by instability. For the most stable playback, set it to 1000 ms. For low latency, use the lowest stable value; 200 ms is recommended. Values below 200 ms may cause playback errors.



Figure 6 Caching

Video stream

When finished, press 'Play'. The video stream will open in VLC.

5.6 ONVIF protocol

For an overview and selected technical details of the ONVIF protocol, please refer to <https://www.videologyinc.com/>.

By default, the camera includes an ONVIF administrator account with the following credentials:

Username: admin
Password: admin

It is strongly recommended to change the default password after the initial setup to ensure your system remains secure.

5.7 Device maintenance and interfaces

5.7.1 Recovery

This procedure is necessary in cases such as a power failure during a firmware update, which prevents the installation from being completed, or when software changes prevent the firmware from booting.

To reset the device to factory settings, connect the GPIO 23 pin to GND and keep it connected for 5 seconds immediately after turning the device on or restarting it.

This process overwrites the current firmware using either the SD card or the internal memory. The device first attempts to load the firmware from the SD card; if it is not found there, it will use the internal memory.

If you are using an SD card, first download the firmware archive and unzip it. Then, copy all extracted files to the root directory of the SD card. The archive can be downloaded from the official website <https://www.videologyinc.com/>.

5.7.2 LED Control

Briefly connect GPIO 21 to GND to switch the AP LED on or off. When the LED is on, it shows that the device is operational; when off, the LED stays dark.

5.7.3 Snapshot

For information on creating a snapshot, see section 8.3.

5.7.4 J200 connector

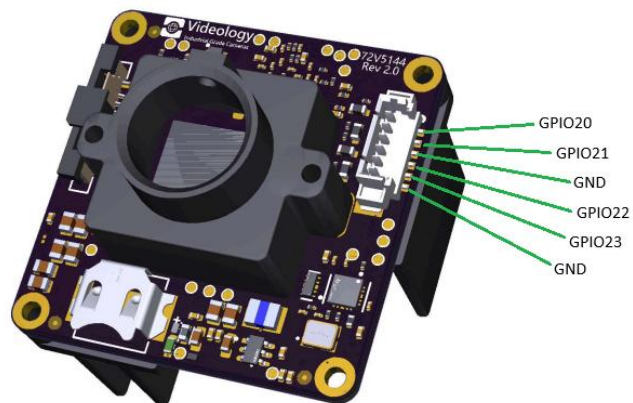



Figure 7 Pinout of connector J200

Pin	Description
GPIO20	-
GPIO21	LED Control
GPIO22	Snapshot
GPIO23	Factory Reset
GND	Ground

Table 1. Pinout of connector J200

 Each GPIO pin has an internal pull-up resistor.

6. Web Interface

You can use the web interface to control various camera settings and view video streams.

6.1 Login

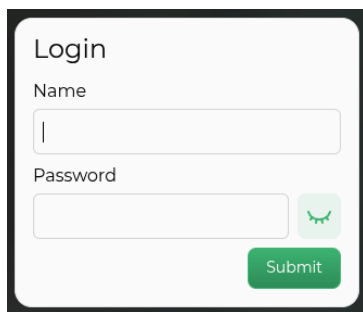


Figure 8 Login interface

Open a web browser and enter the IP address of the camera (e.g., 192.168.0.108).

By default, the camera includes an administrator account with the following credentials:

Username: admin

Password: admin

It is strongly recommended to change the default password after the initial setup to ensure your system remains secure.

Access to the web interface and ONVIF services are provided using the same user accounts.

6.2 Encoding

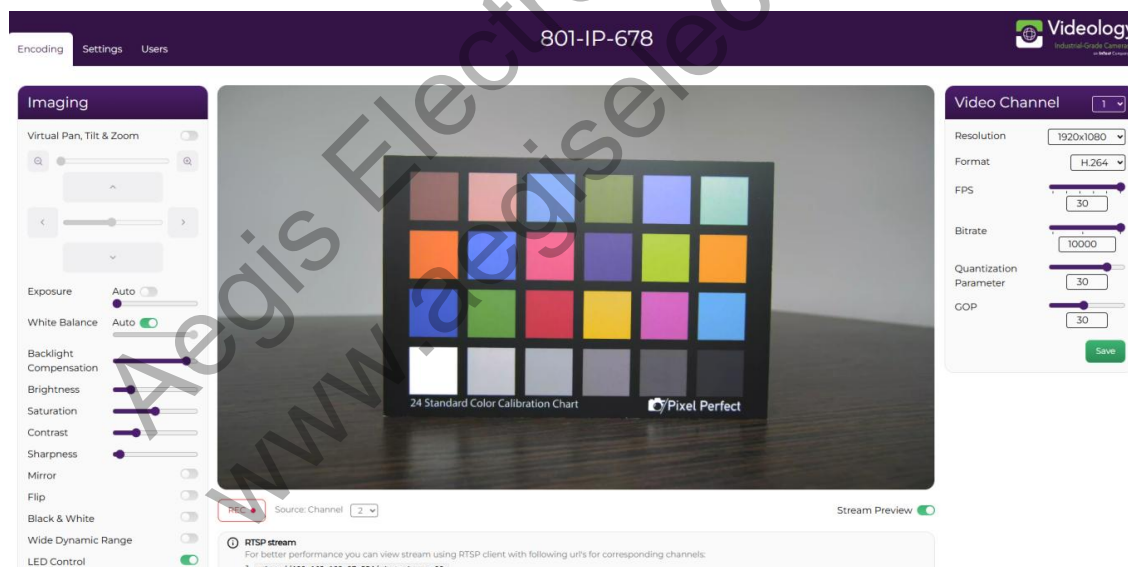


Figure 9 Web interface, Encoding

Once logged in, you can access the Encoding tab. This tab allows you to adjust image and video channel settings, as well as view the live broadcast. Use the tabs at the top of the page to navigate between sections.

6.2.1 Imaging Settings

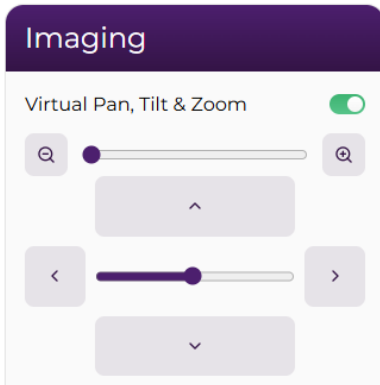


Figure 10 Virtual Pan, Tilt & Zoom interface

Virtual Pan Tilt Zoom (VPTZ)

There is a slider to disable this module, located next to its name.

Use single presses of the plus (+) and minus (-) buttons to zoom in and out. Adjust the slider between the buttons to control the zoom increment.

The arrow buttons allow you to pan and tilt the zoomed image. Use the speed slider between the arrows to adjust the movement speed.

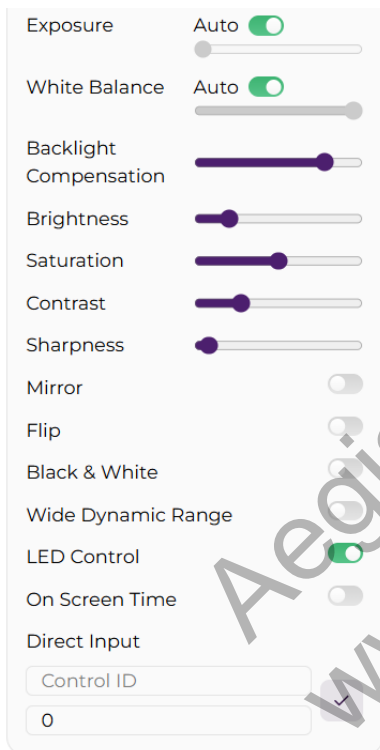


Figure 11 Configuration interface

Exposure

Adjusts the amount of light reaching the sensor. AUTO will continue to adjust for different lighting conditions.

White Balance

Adjusts the color tones to make sure whites appear neutral under different lighting conditions. AUTO will continue to adjust for different lighting conditions.

Backlight Compensation

Adjusts the exposure window to compensate for strong backlight in a scene. Lower values (slider moved to the left) cause the auto exposure algorithm to evaluate a larger portion of the frame. Higher values (slider moved to the right) restrict the exposure measurement to the central area of the frame.

Brightness

Brightens or darkens the image.

Saturation

Adjusts the intensity of the color.

Contrast

Darkens the dark areas of the image and lightens the light areas.

Sharpness

Adjusts the contrast between edges.

Mirror

Sets the image to a reverse view (horizontal).

Flip

Sets the image to an upside-down view (vertical).

Black & White

Sets the image to black & white.

Wide Dynamic Range

Increases the tonal range between light and dark areas of the image.

LED Control

When this option is enabled, the AP LED turns on to indicate that the device is operational. When disabled, the LED remains off.

On Screen Time

Enables the display of the current date and time on the video stream.

Direct Input

Allows direct entry of commands and settings. See Appendix 10 for the command list.

6.2.2 Encoding Settings

This page displays the current camera stream and allows switching between the three available channels. Each channel provides different streaming configurations, such as resolution and network parameters. Note that each channel has its own independent streaming settings.

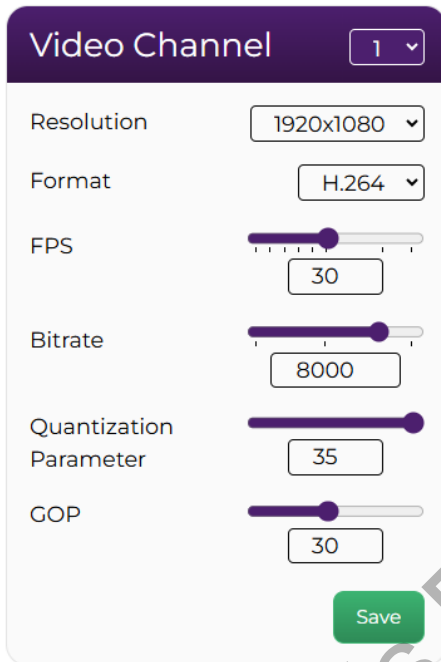


Figure 12 Encoding configuration interface

Channel

To choose which video stream to view (Channel 1, 2, or 3), use the drop-down list provided on the page.

Resolution

Select the desired resolution.

Format

It can be H.264 or MJPG.

FPS

Select the desired frames per second.

Bitrate

Bitrate — Determines the amount of data transmitted per second in the video stream. This setting affects video quality and file size.

Quality

Controls the level of detail and compression in the video. This setting affects both video clarity and required bandwidth or storage space.

GOP

Defines the sequence of keyframes (I-frames) and predictive frames (P-frames), affecting video compression, quality, and streaming efficiency.

Save

After modifying one or more channel settings, click the green 'Save' button at the bottom of the section to apply your changes. This ensures that all changes are applied and retained.



MJPG format is only supported on the third video channel. When selected, the web interface will display video at a fixed rate of 5 frames per second, regardless of the configured frame rate. However, the configured frame rate still applies to RTSP and ONVIF streams.



If channel 1 is set to 3840×2160 resolution, you can use either VPTZ or VDR on this channel, but not both at the same time.

6.2.3 Stream preview

The stream preview allows you to select the channel you want to view and configure it using the imaging and encoding settings.



Viewing the preview is not the primary method for receiving the stream. It is recommended to use the preview only during channel setup to verify the configuration. After setup, disable the preview stream for optimal performance and use RTSP or ONVIF to receive the video stream.



Figure 13 Stream preview

Recording button



Figure 14 Recording button

To start recording video to the SD card, press the REC button. Press the button again to stop. There is a dropdown list on the side that lets you select the channel for recording. Recording is only available on channels 2 and 3.

If you attempt to record video without an SD card inserted, a warning message will appear.

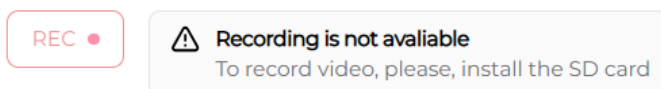


Figure 15 Recording warning about SD card



For more information about recording, see Chapter 8.

Stream preview

This switch enables or disables the stream preview in the web interface.

RTSP stream information

For optimal performance, use any RTSP-compatible client to view the stream. The system automatically generates RTSP URLs for each channel.

6.3 Settings

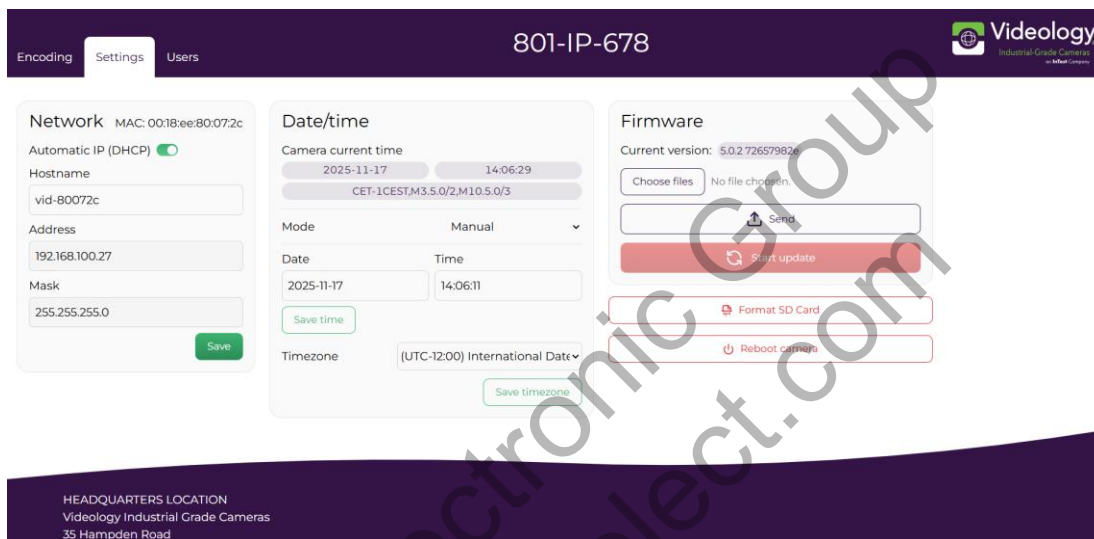
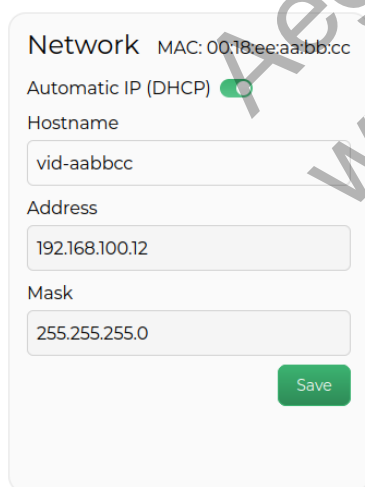


Figure 16 Settings

6.3.1 Network settings



Automatic IP (DHCP)

The camera comes as standard with the automatic IP (DHCP) option enabled. That means the router dynamically assigns an IP address to the camera. When this option is turned off, a fixed IP address can be set by the user via the address field.

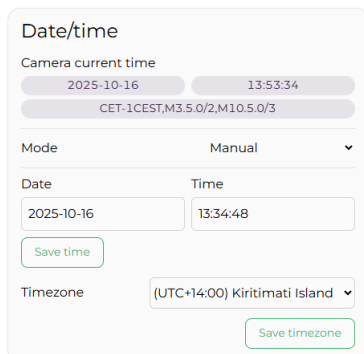
Note that if the fixed IP address or subnet mask is set incorrectly, communication to the camera might be lost. Consult your IT department if you are unsure how to use these fields.

When done adjusting these settings, use the green SAVE button.

Figure 17 Network settings

6.3.2 Date and time

You can view and configure the date, time, and time zone through the web interface.



Camera current time

Displays the current date, time, and time zone from the camera's real-time clock.

Figure 18 Date and time setting

Mode

There are three available modes for setting the date and time:

1. Automatic via NTP

In this mode, time synchronization is performed using NTP servers. You can synchronize the time manually by clicking the 'Sync Time' button or enable periodic synchronization. NTP servers can be added or removed as needed, but after any changes, make sure to click the green "Save servers" button. You can also select a time zone in this mode.

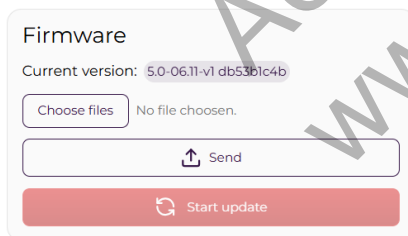
2. Sync from Computer

This mode displays a preview of your computer's current time and time zone. To synchronize the device time with your computer, click the green "Apply" button.

3. Manual

In this mode, you can manually set the date and time. After entering the desired values, press the green "Save time" button to apply the changes. You can also manually select the time zone.

6.3.3 Firmware



Current version

Displays the current firmware version.

Firmware update

1. Click the 'Choose File' button and select the firmware update archive from your computer. The archive can be downloaded from the official website <https://www.videologyinc.com/>.
2. Click the "Send" button to upload the file to the device.
3. After the file is uploaded, click 'Start Update' to begin the firmware update process.

Figure 19 Firmware

6.3.4 Format SD Card




Click the red "Format SD Card" button to erase all data from the memory card.

Figure 20 Format SD card button

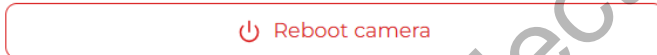


Confirm that you intend to erase all data from the SD card before proceeding.

Figure 21 Confirm formatting of the SD card

 If Channel 1 is set to a resolution of 3840×2160, formatting the SD card may take more than 15 minutes. Please allow sufficient time for the process to complete, or lower the channel resolution to reduce the formatting time.

6.3.5 Reboot camera



Press this button to restart the camera.

Figure 22 Reboot camera button

6.4 Users

This page is for user management.

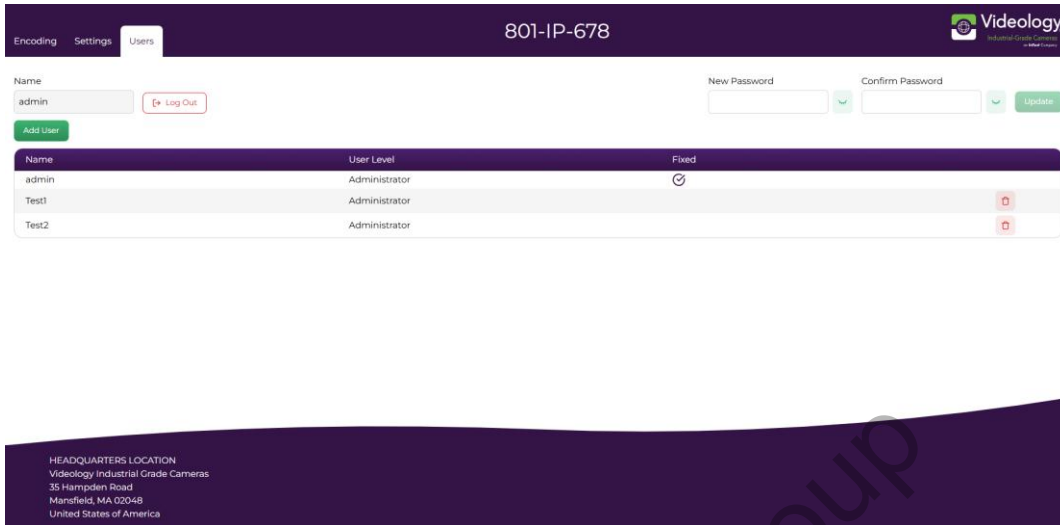


Figure 23 Users management

6.4.1 Current user



Figure 24 Current user

This section shows the current user name with a 'Log Out' button next to it. On the right side of the page, there are two input fields for entering and confirming a new password, along with a button to save the updated password.

6.4.2 User level

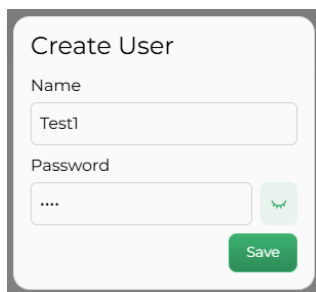
The user-level option is required only for ONVIF. This setting cannot be configured at this time.

6.4.3 Add user



To add a user, click the green "Add user" button

Figure 25 "Add user" button



Enter a username and password in the pop-up window. The password must be at least 4 characters long. Click the green "Save" button to apply the changes.

Figure 26 User creation

6.4.4 User table



Name	User Level	Fixed
admin	Administrator	<input checked="" type="checkbox"/>
Test1	Administrator	
Test2	Administrator	

Figure 27 User table

This section displays information about all users and provides options for interaction, such as editing or deleting user accounts.

The "Name" column lists the usernames.

The "User Level" column shows the access level assigned to each user.

The "Fixed" column may display a check mark, indicating that the user account cannot be deleted. If there is no check mark, the delete button will appear at the end of the row for that user.

Delete icon — Removes the user account.

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7. HTTPS API

Communicating with the camera is through the HTTPS API. Using an internet browser address bar, ip address of the camera (In this example: 192.168.0.108), followed by the command and arguments listed below.

7.1 Virtual Pan Tilt Zoom VPTZ

This feature enables the digital zoom of the camera. Different parts of the image can be zoomed and panned up and down. The operation can be done from the web interface described in 6.2.1 or by the HTTPS commands. This feature is different from the Digital Zoom function (Dzoom), which “snaps” to a certain zoom level and position in the image.



These commands are set up differently from the “video?” input arguments described at 6.2 and appendix 10. Here, the configuration command “vptz?” is used, followed by the input arguments.

Example:

`https://192.168.0.108/cgi-bin/vptz?-z1`

Camera's IP address
Configuration command
Input argument

The input argument is a letter, for example -z. After the letter, the value (α) is inserted. For example, for zooming in speed 1x: -z1.

Input argument	Description	Range (α)
-z α	Zoom in speed	1 ~ 30
-z- α	Zoom out speed	1 ~ 30
-s	Stop zooming in or out	N.A.
-p α	Pan right	1 ~ 100
-p- α	Pan left	1 ~ 100
-t α	Tilt up	1 ~ 100
-t- α	Tilt down	1 ~ 100

Table 2. VPTZ input arguments

See below an example HTTPS command string for the VPTZ function to be programmed into an API.

Zooming in at 1x speed and then panning to the left at 1x speed:

1. /cgi-bin/vptz?-z1
2. /cgi-bin/vptz?-s
3. /cgi-bin/vptz?-p1 : move right.
4. /cgi-bin/vptz?-s



The STOP action (-s) is required after every operation, otherwise the action continues indefinitely.

7.2 Video Configuration

To change the imaging or video settings use the below structure.

Here is an example of how the video brightness level is adjusted:

```
https://192.168.0.108/cgi-bin/video?EBTD=255
```

Camera's IP address
Configuration command
Input argument

Every configuration command follows the same structure.

The full list of "video?" input arguments is on the last section of this document, [Appendix: list of configuration IDs](#).

7.3 Backlight Compensation

The window range is 1 to 100. 1 corresponds to the full frame, and the window gets progressively smaller as you increase the value to 100.

```
https://192.168.0.108/cgi-bin/blc.cgi?{"request":"set","value":15}
```

Camera's IP address
Configuration command
Input argument

7.4 Encoding

For encoding settings, the general structure of the commands should be as follows:

```
https://192.168.0.108/cgi-bin/encoder.cgi?[{channel1},{channel2},{channel3}]
```

Camera's IP address
Configuration command
Input arguments

For each channel, the following parameters should be defined:

- width
- height
- fps
- encoding
- bitrate
- quality
- gov

See section 6.2.2 for detailed descriptions of each encoding setting. The possible values of each parameter are the same as in the web interface. The width and height correspond to the resolution in the horizontal and vertical axis.

Below is an example of how to configure the encoder for the three streams via an HTTPS command. The full command is written without spaces. It is necessary that the parameters for all three streams are configured when sending a HTTPS command.

```
https://192.168.0.108/cgi-bin/encoder.cgi?
[{"width":1920,"height":1080,"fps":30,"encoding":"H.264","bitrate":5000,"quality":30,"gov":50},
{"width":1920,"height":1080,"fps":30,"encoding":"H.264","bitrate":3000,"quality":30,"gov":50},
{"width":1280,"height":720,"fps":30,"encoding":"H.264","bitrate":2000,"quality":30,"gov":50}]
```

Width	Height	Channel support
3840	2160	1
1920	1080	1, 2
1280	720	1, 2, 3
640	480	3

Table 3. Video resolution



If channel 1 is set to 3840×2160 resolution, you can use either VPTZ or VDR on this channel, but not both at the same time.

7.5 AP LED

When the value is set to 1, the AP LED turns on to show that the device is operating. When set to 0, the indicator remains off.

```
https://192.168.0.108/cgi-bin/gpio.cgi?{"request":"set","gpio":"led","value":1}
```

Camera's IP address
Configuration command
Input argument

7.6 On screen time

Enables the display of the current date and time on the video stream.

Value	Description
start	Enable osd
stop	Disable osd
status	Check status

Table 4. OSD input arguments

Example:

```
https://192.168.0.108/cgi-bin/osd-ctrl.cgi?start
```

Camera's IP address
Configuration command
Input argument

7.7 Network

To set a static IP address:

```
https://192.168.0.108/cgi-bin/net.cgi?{"address":"192.168.0.109/24"}
```

Camera's IP address
Configuration command
IP address
Network mask



If you forget the network mask, it will not work.

To set the camera to a dynamic IP address (DHCP):

```
https://192.168.0.108/cgi-bin/net.cgi?{"DHCP":true}?
```

Camera's IP address
Configuration command
Input argument

To get the current IP address:

```
https://192.168.0.108/cgi-bin/net.cgi?{"address":null}
```

Camera's IP address
Configuration command

To get the hostname:

```
https://192.168.0.108/cgi-bin/net.cgi?{"hostname":null}
```

Camera's IP address
Configuration command

7.8 Firmware version query

To query the firmware version of the camera, use HTTPS command:

```
https://192.168.0.108/cgi-bin/version?
```

Camera's IP address
Query command

7.9 Date and time

To set the date and time (use the format: data=yyyy-mm-dd&time=hh:mm:ss):

```
https://192.168.0.108/cgi-bin/datetime.cgi?date=2025-10-06&time=01:08:54
```

Camera's IP address
Configuration command
Input arguments

To save time zone:

```
https://192.168.0.108/cgi-bin/onvif.cgi?{
  "type":"set","data":"Timezone","value":{"Timezone":"UTC+8"}}
                                     Time zone
```

The time zone field may include descriptive text at the beginning; however, it must always end with a numeric value (which can be negative) representing the UTC offset for the region.

To get the current date and date, as well as the time zone:

```
https://192.168.0.108/cgi-bin/datetime.cgi?
      Camera's IP address      Query command
```

To synchronize time with an NTP server:

```
https://192.168.0.108/cgi-bin/ntp.cgi?{"action":"sync"}
      Camera's IP address      Configuration command      Input argument
```

To add an NTP server:

```
https://192.168.0.108/cgi-bin/ntp.cgi?{"action":"set-servers",
      "servers":["time.inrim.it"]}
                                     NTP server
```

You can specify multiple NTP servers within square brackets, separated by commas. Each server name must be enclosed in double quotation marks.

To "enable" or "disable" automatic synchronization with added NTP servers:

```
https://192.168.0.108/cgi-bin/ntp.cgi?{"action":"disable"}
      Camera's IP address      Configuration command      Input argument
```

To get information about time settings related to ntp:

```
https://192.168.0.108/cgi-bin/ntp.cgi?{"action":"get"}
      Camera's IP address      Configuration command      Input argument
```

7.10 Recording video

To start or stop recording, use the command shown below. Specify either "start" or "stop" along with the channel number. Note that recording can only be performed on one channel at a time.

```
https://192.168.0.108/cgi-bin/video-rec.cgi? {"request": "set", "value": "start", "channel": "1"}
```

Camera's IP address
Query command
Value
Channel

To get the status of a recording:

```
https://192.168.0.108/cgi-bin/video-rec.cgi? {"request": "get", "value": "status"}
```

Camera's IP address
Query command
Value

7.11 Format SD card

Clear the memory card:


```
https://192.168.0.108/cgi-bin/format-sd.cgi?
```

Camera's IP address
Configuration command

Get a status:

```
https://192.168.0.108/cgi-bin/format-sd.cgi? {"get": "status"}
```

Camera's IP address
Configuration command
Input argument

 If Channel 1 is set to a resolution of 3840×2160, formatting the SD card may take more than 15 minutes. Please allow sufficient time for the process to complete, or lower the channel resolution to reduce the formatting time.

7.12 Reboot

To reboot:

```
https://192.168.0.108/cgi-bin/reboot?
```

Camera's IP address
Query command

7.13 User management

Configuration command: "/users.cgi". The message format is JSON. See the value descriptions and examples below.

Input argument	Description	Range
type	Type of action	add/set/remove
UserLevel	0 – administrator, 1 – operator, 2 - user	0 ~ 2
fixed	Lock, more in 6.4.4	true/false
name	User name	-

Table 5. User management input arguments

Example:

```
https://192.168.0.108/cgi-bin/users.cgi?{data}
```

Camera's IP address Configuration command Input argument

Add user:

```
https://192.168.0.108/cgi-bin/users.cgi?{"type":"add","UserLevel":1,"pass":"1234","name":"Test","fixed":false}
```

Update user (password and user level):

```
https://192.168.0.108/cgi-bin/users.cgi?{"type":"set","UserLevel":2,"pass":"1234","fixed":false,"name":"Test"}
```

Update current user (only password):

```
https://192.168.0.108/cgi-bin/users.cgi?{"type":"set","name":"Test","pass":"1"}
```

Delete user:

```
https://192.168.0.108/cgi-bin/users.cgi?{"type":"remove","name":"Test"}
```

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8. Recording

Video recording will start automatically when the camera is turned on or rebooted with an SD card inserted. The SD card must be formatted.

8.1 SD card formatting instructions

Format the SD card using the FAT32 format, with a block size of 32 kilobytes. For information and software to format the SD card, please contact your IT department.

8.2 Video Recording

Video files on the SD card are organized by date and hour. The root directory is /sd, and each day has its own folder named in YYYY-MM-DD format (e.g., /sd/2025-12-11). Inside it, recordings are grouped into subfolders by hour (00-23), such as /sd/2025-12-11/13. Videos are saved as multiple two-minute segments. Each file name includes the channel number, resolution, frame rate, and the start timestamp.

```
ch2_1920x1080x30__2025-12-08_13-50-32.mp4
ch2_1920x1080x30__2025-12-08_13-52-32.mp4
ch2_1920x1080x30__2025-12-08_13-54-32.mp4
ch2_1920x1080x30__2025-12-08_13-56-32.mp4
```

Example full path: /sd/2025-12-11/13/ch2_1920x1080x30__2025-12-11_13-50-32.mp4



If you have trouble viewing recorded MP4 files, ensure that your media player fully supports the H.264 video codec. Most modern media players support this format.

When the camera is turned off, or the SD card is removed, the last two minutes of recording will be lost.

The recording is continuous. Once the SD card becomes full, the recording starts overwriting the oldest files. The total duration of the recordings depends on the size of the SD card, the selected video settings and how much motion there is in the scene being recorded.

As a reference, Table 6 shows approximate recording times for different SD card sizes with the following channel settings: 1920×1080, H.264 codec, 30 FPS, 10,000 Kbps bitrate, Quantization Parameter - 15, and GOP size of 30.

SD card size	Recording time
32GB	8.5 hours
64GB	17 hours
128GB	1.5 days
256GB	3 days
512GB	6 days
1024GB	12 days

Table 6. Approximate recording time

Use an SD card that meets the speed requirements of your selected stream. Higher resolution, frame rate, and bitrate demand faster cards. For Full HD recording, choose a card rated Class 10 or higher.

8.3 GPIO Trigger Snapshot

The camera supports external snapshot triggering through GPIO22 and GND. By connecting these two the camera will automatically take a snapshot. This feature allows you to connect external devices to trigger the camera. You can use a motion detector, push button, or any other sensor capable of closing the circuit between GPIO22 and GND. Refer to section 5.7 for pin layout.



The camera stores snapshots in its internal memory, with a maximum capacity of 10 images. When this limit is reached, the oldest snapshot is automatically overwritten by the newest one, ensuring that the memory always contains the most recent images.

8.4 FTP server

To access the snapshots and videos, connect to the camera via FTP using the following credentials:

Username: ftpuser

Password: - (without a password)

Port: 2121

If you require assistance with FTP software installation or configuration, please contact your IT department.

After connecting to the camera via FTP, you will have access to two directories:

1. `sd` – contains subfolders organized by date with video recordings and may also contain firmware files
2. `snapshot` – contains snapshot images

These directories allow you to download or manage stored media.

There may be a short delay before files appear in the directory listing. If the contents are not visible immediately, try refreshing the folder view in your FTP client.



The camera does not support copying files from the SD card while streaming all three channels at maximum resolution. Please lower stream resolution while transferring recordings from the SD card.

8.5 Clear SD card

Use the Web Interface as described in Section 6.4.4.

Alternatively, perform the operation via HTTPS, following the instructions in Section 7.11.

9. Dimensions

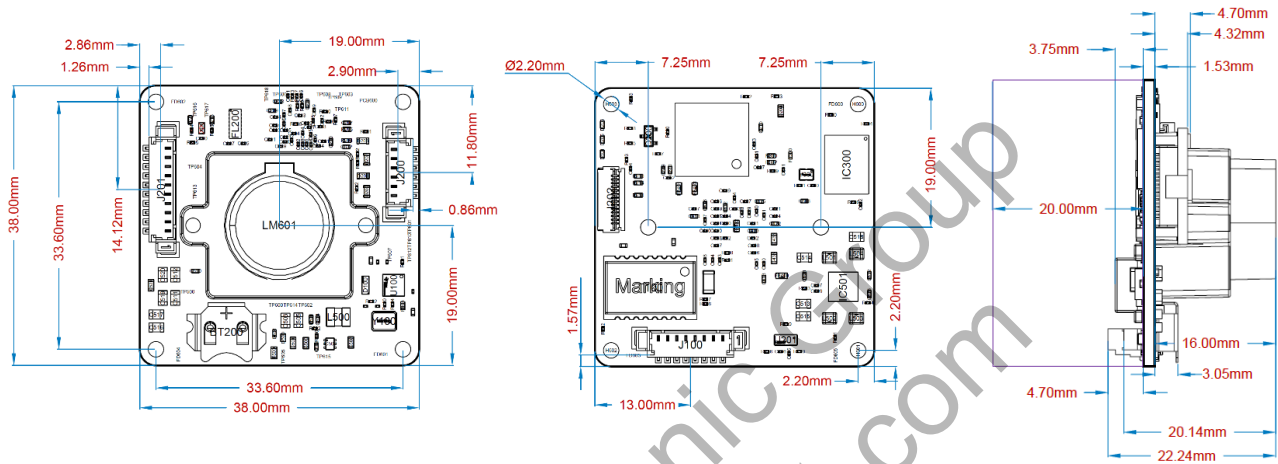


Figure 28 Camera Dimensions

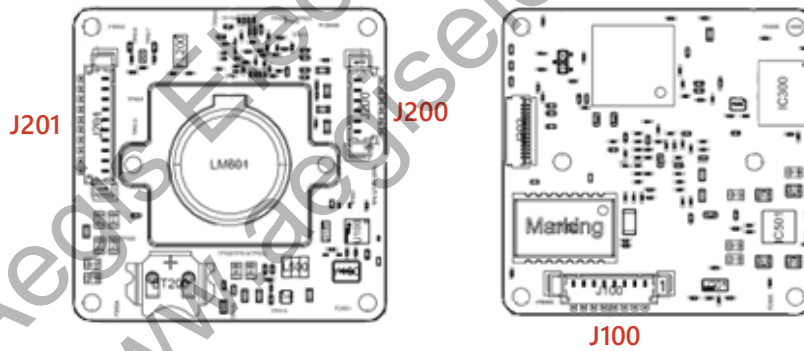


Figure 29 Connectors

Datasheets for connectors and 3D STEP files are available on the Videology website.

10. Appendix: list of configuration IDs

Values and parameters for the “Video?” HTTPS commands to alter the imaging settings of the camera. This is explained in chapter 7.2.

10.1 Exposure

Sets the target brightness through AE (Auto Exposure) function.

ID	Feature	Description	Range
EBON	AeOn	Auto Exposure operation. (0: OFF, 1: ON)	0 ~ 1
EBTD	Brightness	Set the brightness.	0 ~ 255
EBTN	AgcTarget	Set the AGC target. (0~100 %of normal brightness) A situation in which AGC is entered in AE control may determine that the current scene is dark. Setting the same brightness as a bright scene in a dark scene can be unnatural, so set the brightness to a percentage of normal brightness when AGC is entered.	0 ~ 100
ESON	AntiSatOn	The ability to improve image saturation due to SPOT. (0: OFF, 1: ON)	0 ~ 1
ESWT	SatBrt	Sets the strength of the ANTI SAT. (Min: 0 ~ Max: 20) The larger the value, the more visible for saturation areas, but the surrounding area becomes darker.	0 ~ 20
ESSB	Stabilizing	Sets the degree of control stabilization for changes in SPOT images. (0: OFF (immediate response), 1: LOW (15FPS), 2: MIDDLE(30FPS), 3: HIGH(60FPS))	0 ~ 3
EION	Iris	ELC will pull IRIS full open, and ALC will control brightness with IRIS. DC iris (0: ELC, 1: ALC), piris & AF iris (0: MANUAL, 1: AUTO)	0 ~ 1
ESHT	Shutter	Sets sensor shutter control method. (0: AUTO, 1: MANUAL, 2: FLICKER)	0 ~ 2
ESHN	ShtMin	Sets the Shutter Min Exposure Time (Sec) in AUTO mode (0: 1/30, 1: 1/60, 2: 1/120, 3: 1/250, 4: 1/500, 5: 1/1000, 6: 1/2000, 7: 1/4000, 8: 1/8000, 9: 1/15000, 10: 1/30000)	0 ~ 10
ESHD	DeblurMin	Sets the Deblur Min Shutter Exposure Time (Sec) in AUTO mode (0: 1/30, 1: 1/60, 2: 1/120, 3: 1/250, 4: 1/500, 5: 1/1000, 6: 1/2000, 7: 1/4000, 8: 1/8000, 9: 1/15000, 10: 1/30000)	0 ~ 10
ESHM	ShtMax	Sets the Shutter Max Exposure Time (Sec) in AUTO mode (0: 1/30, 1: 1/60, 2: 1/120, 3: 1/250, 4: 1/500, 5: 1/1000, 6: 1/2000, 7: 1/4000, 8: 1/8000, 9: 1/15000, 10: 1/30000)	0 ~ 10
ESHP	ShutSpd	Sets the Shutter Exposure Time (Sec) in MANUAL mode.	0 ~ 10

		(0: 1/30, 1: 1/60, 2: 1/120, 3: 1/250, 4: 1/500, 5: 1/1000, 6: 1/2000, 7: 1/4000, 8: 1/8000, 9: 1/15000, 10: 1/30000)	
EMDC	DcMode	<p>Sets Auto Exposure Control mode when Iris settings are ALC. (0: INDOOR, 1: OUTDOOR, 2: DEBLUR)</p> <p>INDOOR Full Shutter fixation to prevent indoor Flicker generation, AE control mode with IRIS. At this time, the Shutter is automatically changed to Full Shutter.</p> <p>OUTDOOR In outdoor situations, the setting for AE control with IRIS is fixed to the SHUTTER MIN when IRIS control is performed. However, when the surrounding environment becomes dark and IRIS becomes full open, it controls AE with the shutter and operates up to SHUTTER MAX.</p> <p>DEBLUR It will operate the same as DEBLUR mode in IRIS Full Open & ShtMode. (see below)</p>	0 ~ 2
EMSH	ShtMode	<p>Sets Auto Exposure Control mode when Iris settings are ELC. (0: NORMAL, 1: DEBLUR)</p> <p>NORMAL IRIS is a mode that controls AE with a Full Open and a Shutter.</p> <p>DEBLUR It is a function to minimize the Blur phenomenon that occurs as you go to Slow Shutter. To minimize the Blur, AGC is applied to improve the Shutter speed quickly.</p>	0 ~ 1
EDSS	Dss	<p>Sets mode for Long shutter (> 1Frame). The ability to compensate for insufficient light by increasing the exposure time of the sensor but decreases the frame rate. (0: OFF, 1: X2, 2: X4, 3: X8, 4: X16, 5: X32, 6: X64, 7: X128)</p>	0 ~ 7
EAGC	Agc	Sets max control range for Sensor AGC.	0 ~ 255
EISP	IrsSpeed	Sets IRIS control speed.	0 ~ 20
ESGP	ShtSpeed	Sets Shutter Control Speed.	0 ~ 20
EGCP	AgcSpeed	Sets Agc control speed.	0 ~ 20
ESHR	rAeSht	Read sensor shutter value (read only)	-
EAGR	rAeAgc	Read sensor AGC value (read only)	-

Table 7. Exposure Control

Example:

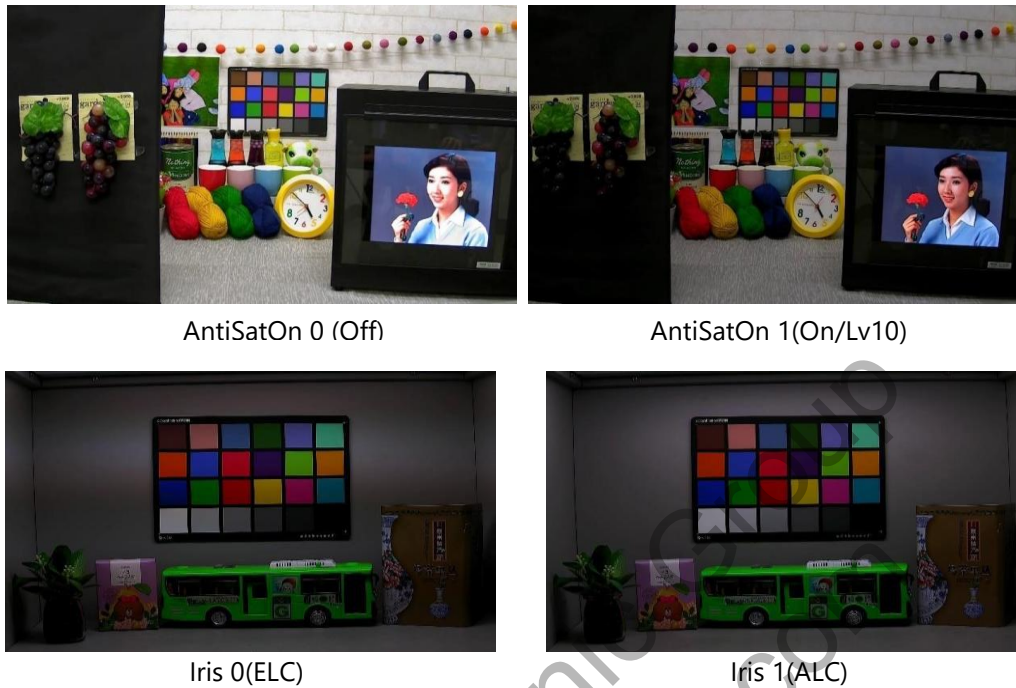


Figure 30 Exposure example

10.2 WDR

Setting Function to WDR (Wide Dynamic Range).

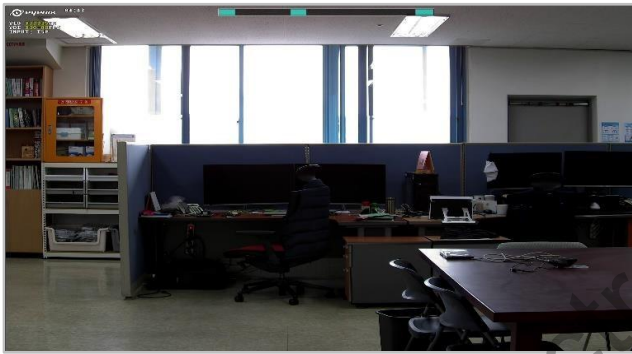
ID	Feature	Description	Range
WDON	WdrOn	WDR operation ON. (0: OFF, 1: ON)	0 ~ 1
WMOD	*WdrMode	WDR method setting. (0: ISP FRAME WDR, 1: LINE HDR)	0 ~ 1
WLMD	WdrLine	Set LINE HDR mode (0: 2Page, 1: 3Page)	0 ~ 1
WWTL	WdrWgt	WDR intensity setting. (0: LOW, 1: MIDDLE, 2: HIGH)	0 ~ 2
WBTL	AE_WDR_LTGT_OFST2	The brightness (Iris, AGC, Shutter) of the dark domain is established in the WDR mode.	0 ~ 511
WBTS	AE_WDR_STGT_OFST2	The brightness (Iris, AGC, Shutter) of the bright domain is established in the WDR mode.	0 ~ 511
WBTM	AE_WDR_MTGT_OFST2	The brightness (Iris, AGC, Shutter) of the medium domain is established in the WDR mode.	0 ~ 255
WBTN	AE_WDR_LTGT_NIGHT	The brightness (Iris, AGC, Shutter) of the dark domain is established in the WDR mode at night. 0~100 Percent(%) of the daytime brightness	0 ~ 100
WBTD	ACEWDR1_TH	The brightness (ISP Gain) of the whole-area in the WDR mode.	0 ~ 255
WCNT	ACEWDR2_TH	The contrast (ISP Contrast) of the whole-area in the WDR mode.	0 ~ 255

WGMM	GammaWdr	Gamma Settings in WDR Mode. (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75, 7: Adaptive, 8: Default)	0 ~ 8
WGMD	GammaWdrDay	Day gamma settings in gamma adaptive mode with WDR. (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75)	0 ~ 6
WGMN	GammaWdrNgt	Night gamma settings in gamma adaptive mode with WDR. (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75)	0 ~ 6

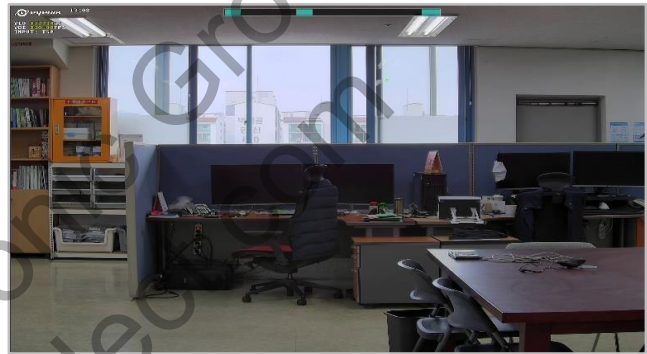
Table 8. WDR Control



*WdrMode[WMOD] is reflected in Initial only when the initial value of SSID meets the condition. See SSID parameter.



WdrOn 0 (off)



WdrOn 1

Figure 31 WDR WdrOn

10.3 Color

AWB (Auto White Balance) is a function that automatically balances colors according to the color temperature characteristics of the input image.

ID	Feature	Description	Range
WBMD	AwbMode	<p>The AWB Mode consists of AUTO, AUTOext, PRESET, and MANUAL Mode (0: AUTO, 1: AUTOext, 2: PRESET, 3: MANUAL)</p> <p>AUTO White Balance is automatically performed through the default color temperature band.</p> <p>AUTOext Color temperature range extension mode compared to AUTO mode</p> <p>PRESET White Balance does not automatically renew. When using the PresetHold function, the color temperature at the time is maintained.</p> <p>MANUAL</p>	0 ~ 3

		The White Balance is proceed based on the fixed color temperature (3000K, 5000K, 8000K). RGAIN and BGAIN can be established additionally.	
WBPS	AwbPresetHold	If you write 1, It get the color temperature information at the time. When color temperature acquisition is finished, the 'AwbPresetHold' parameter is changed to 0. In Awb 'PRESET' mode, the held color temperature information is fixed.	0 ~ 1
WBMT	AwbMnlTemp	In the Manual mode, the color temperature is established (0: 3000K, 1: 5000K, 2: 8000K)	0 ~ 2
WBMR	AwbMnlRgain	In the Manual mode, the weight about red color is controlled	0 ~ 255
WBMB	AwbMnlBgain	In the Manual mode, the weight about blue color is controlled	0 ~ 255
WBSR	SaturationR	Function that adjusts the overall color of the image in the red direction	0 ~ 255
WBSG	SaturationG	Function that adjusts the overall color of the image in the green direction	0 ~ 255
WBSB	SaturationB	Function that adjusts the overall color of the image in the blue direction	0 ~ 255

Table 9. Color Control



Change DebugMode[DBMD] into 3 to display the AWB window area.



AWB off



AWB 0 (Auto)



AWB 1 (Autoext)

Figure 32 AWB example



AwbMnl 0(3000K)
(light source: CWF)



AwbMnl 1(5000K)
(light source: CWF)



AwbMnl 2(8000K)
(light source: CWF)

Figure 33 AwbMnlTemp example

10.3.1 Saturation

The saturation parameter is a combination of three values, WBSR (Red), WBSG (Green), WBSB (Blue). To alter the saturation, each of the three color parameters should be set to the same value.



SaturationR



SaturationG



SaturationB

Figure 34 Saturation example

10.4 HUE & CHROMA

Hue and chroma settings that control custom colors.

ID	Feature	Description	Range
HYRG	Yellow_HUE_RedToGreen	Adjust Yellow Hue from Red to Green (0: Red, 255: Green)	0 ~ 255
HYCH	Yellow_CHROMA	Adjust Yellow Chroma	0 ~ 255
HRYB	Red_HUE_YellowToBlue	Adjust Red Hue from Yellow to Blue (0: Yellow, 255: Blue)	0 ~ 255
HRCH	Red_CHROMA	Adjust Red Chroma	0 ~ 255
HBGR	Blue_HUE_GreenToRed	Adjust Blue Hue from Green to Red (0: Green, 255: Red)	0 ~ 255
HBCH	Blue_CHROMA	Adjust Blue Chroma	0 ~ 255

HGBY	Green_HUE_BlueToYellow	Adjust Green Hue from Blue to Yellow (0: Blue, 255: Yellow)	0 ~ 255
HGCH	Green_CHROMA	Adjust Green Chroma	0 ~ 255

Table 10. HUE & CHROMA Control



Figure 35 HUE & CHROMA example

10.5 Color suppression

Color suppression mode is a function to correct the problems generated in color reproduction. There are three functions: low light color, edge color, and high light color.

ID	Feature	Description	Range
CSHO	HSUP_ON	High Light color suppression on/off (Y domain control) (0: OFF, 1: ON) Corrects problems in color reproduction caused by differences caused by different RGB saturation points	0 ~ 1
CSHT	HSUP_TH	High Light color suppression threshold (Y domain control) The standards of the saturation point of time is established.	0 ~ 255
CSEN	CES_NOR	Edge color suppression weight in normal Corrects the problem that occurs when color is affected at the edge during RGB interpolation	0 ~ 40
CSEW	CES_WDR	Edge color suppression weight in WDR Corrects the problem that occurs when color is affected at the edge during RGB interpolation	0 ~ 40
CSLO	LSUP_ON	Low Light color suppression on/off (0: OFF, 1: ON) Function to suppress the occurrence of color noise when entering AGC	0 ~ 1

Table 11. Color suppression Control

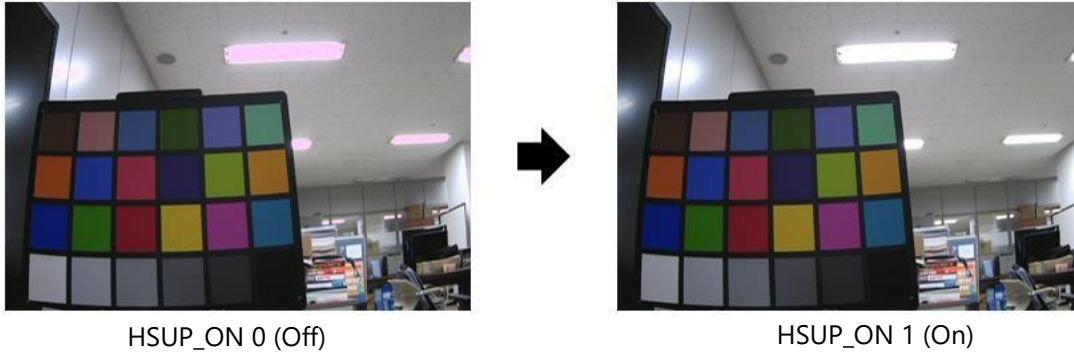


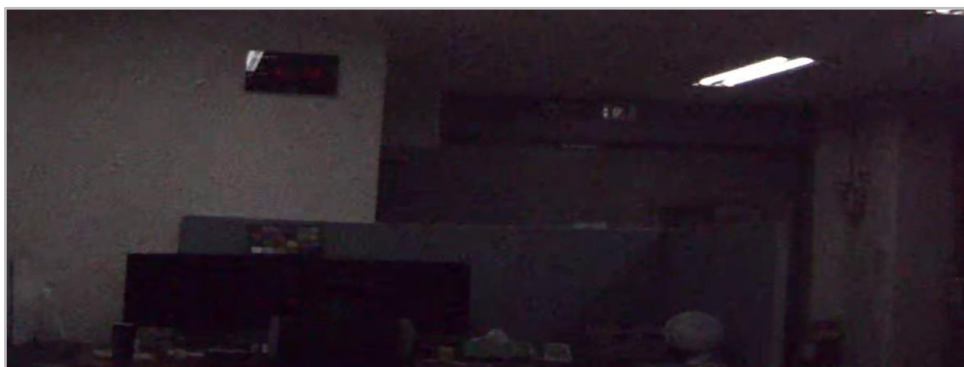
Figure 36 Color suppression example

10.6 DNR

Settings related to noise reduction.

ID	Feature	Description	Range
DN3L	Adnr3D	Setting the intensity of 3D DNR (0: OFF, 1~25: LOW, 26~75: MIDDLE, 76~177: HIGH, 178~255: VERY HIGH)	0 ~ 255
DN3N	Adnr3D_Ngt	Setting the intensity of night 3D DNR (0: OFF, 1~25: LOW, 26~75: MIDDLE, 76~177: HIGH, 178~255: VERY HIGH)	0 ~ 255
DN3I	DnrIncrease	The ability to interlock the control strength of the 3D DNR according to the AGC value (0: OFF, 1: ON) The larger the AGC value, the larger the 3D DNR strength	0 ~ 1
DN2D	Adnr2D	Setting the intensity of 2D DNR (0: OFF, 4: LOW, 8: MIDDLE, 16: HIGH, 17~255: VERY HIGH)	0 ~ 255
DN2N	Adnr2D_Ngt	Setting the intensity of night 2D DNR (0: OFF, 4: LOW, 8: MIDDLE, 16: HIGH, 17~255: VERY HIGH)	0 ~ 255
DN2E	EdgeLv	2D DNR edge level	0 ~ 4

Table 12. DNR Control



Adnr3D 0 (Off)



Adnr3D 51 (On)

Figure 37 DNR example

10.7 Sharpness

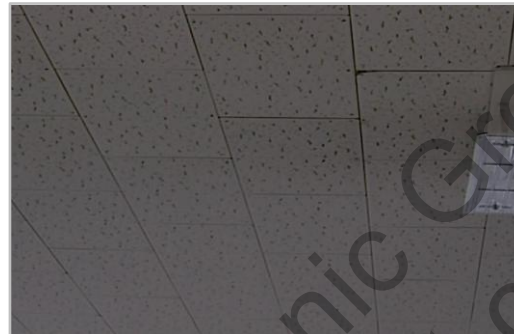
Settings related to sharpness.

ID	Feature	Description	Range
SPLV	Sharpness	Setting the intensity of sharpness The function of emphasizing the edge of the image	0 ~ 255
SPEB	ShpEdgeBoost	Edge Enhancement	0 ~ 255
SPEL	ShpEdgeLimit	Edge Limitation in Low Light	0 ~ 255
SPBE	ShpBigEdge	Sharpness for Big edge image	0 ~ 255
SPSE	ShpSmallEdge	Sharpness for Small edge image	0 ~ 255

Table 13. Sharpness Control



Sharpness 0



Sharpness 128

Figure 38 Sharpness example

10.8 Gamma

Set the gamma parameter.

ID	Feature	Description	Range
GMLL	Gamma	Gamma setting (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75, 7: Adaptive) Set to Adaptive, you can set up separate Gamma settings for Day and Night	0 ~ 7
GMMD	GammaDay	Day gamma settings in gamma adaptive mode (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75)	0 ~ 6
GMMN	GammaNgt	Night gamma settings in gamma adaptive mode (0: 0.45, 1: 0.5, 2: 0.55, 3: 0.6, 4: 0.65, 5: 0.7, 6: 0.75)	0 ~ 6
GMUM	UserGammaMode	User Gamma Mode Selection (0 = Low Saturation, 1 = Traditional Mode, 2 = SW Par Custom gamma)	0 ~ 2
GMU0~G	UserYGma00 ~ 16	User Gamma Mode2 - YGamma	0~1023
GMC0~G	UserCGma00 ~ 16	User Gamma Mode2 - CGamma	0~1023

Table 14. Gamma Control

10.9 Contrast

Set contrast and ACE, DEFOG that corrects images with narrow Contrast.

ID	Feature	Description	Range
CNTL	Contrast	Contrast setting	0 ~ 255
ACLV	Ace	ACE (0: OFF, 1: LOW, 2: MIDDLE, 3: HIGH)	0 ~ 3
ACWT	AceGmgn	ACE intensity setting	0 ~ 255
ACBT	*AceBrt	Brightness Setting of ACE & DEFOG	0 ~ 64
DFON	Defog	DEFOG (0: OFF, 1: LOW, 2: MIDDLE, 3: HIGH)	0 ~ 3
DFMD	DefogMode	DEFOG Mode consists of MANUAL and AUTO Mode. (0: MANUAL, 1: AUTO) MANUAL The intensity of the DEFOG mode is established as manual AUTO The intensity of the DEFOG mode is established automatically	0 ~ 1

Table 15. Contrast Control



Ace Brt[ACBT]: The settings are equally applicable to DEFOG.



Figure 39 Contrast example

10.10 Mirror

Set to invert the image vertically or horizontally.

ID	Feature	Description	Range
IMFP	Flip	Image FLIP function (0: OFF, 1: ON)	0 ~ 1
IMMR	Mirror	Image MIRROR function (0: OFF, 1: ON)	0 ~ 1

Table 16. Mirror Control

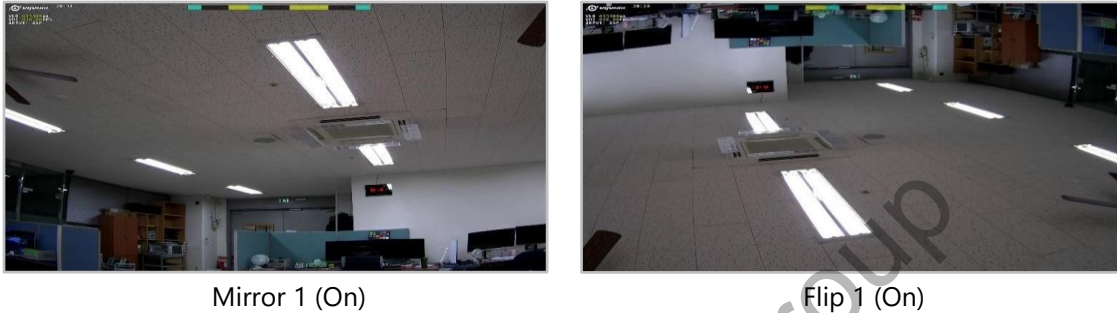


Figure 40 Mirror example

10.11 Dzoom

Set the digital zoom parameter.

ID	Feature	Description	Range
DZLV	DZoom	Digital Zoom (0 ~ DZLR-1 = OFF, DZLR ~ 6400 = x1.0 ~ x DZLV/DZLR)	0 ~ 6400
DZLR	DZoomCtrlRes	Digital Zoom control resolution	10 ~ 100
DZPH	DZoomPosH	Horizontal Start Position of Digital Zoom (2M resolution: 30 ~ 1890)	0 ~ 1890
DZPV	DZoomPosV	Vertical Start Position of Digital Zoom (2M resolution: 17 ~ 1063)	0 ~ 1063

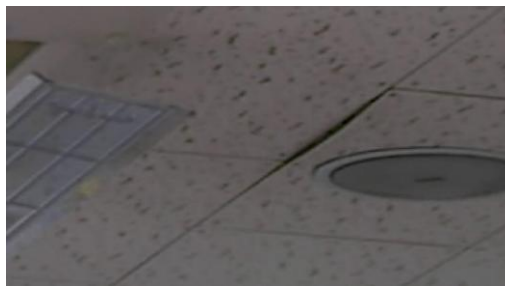
Table 17. Dzoom Control



- The DZOOM function is activated only when there is a "DZOOM YC Input".
- For "DZOOM YC Input", the YC with the largest resolution is selected among the generated YCs.
- DZOOM function is not applied to YC selected as "DZOOM YC input".
 - case 0) YC0=5M / YC1=2M / YC2=1M
DZOOM Input YC: YC0(5M), DZOOM applies only to YC1, YC2.
- If there are multiple YCs with the largest resolution, DZOOM is assigned with the highest YC number first.
 - case 1) YC0=5M / YC1=5M / YC2=1M
DZOOM Input YC: YC1(5M), DZOOM applies only to YC0, YC2.



DZoom 10 (x1)



DZoom 100 (x10)

Figure 41 Dzoom example

10.12 Motion

Settings related to motion detection.

ID	Feature	Description	Range
ITCH	MotionCh	Select the Motion detect input source (0: Sensor, 1~4: Digital Input CH, 20~255: Auto)	0 ~ 255
ITON	MotionOn	Motion detect (0: OFF, 1: ON)	0 ~ 1
ITST	MotionSens	Motion detect Sensitivity The ability to set sensitivity for motion detection	0 ~ 255
ITMO	MotionBoxOn	Function to display OSD related to Motion Detection (0: OFF, 1: ON)	0 ~ 1
ITDT	MotionWinBoxType	The ability to display the Motion Detection ROI region (0: Normal image 1: 50 % Blending 2: 75 % Blending 3: 100 % Blending 4: ROI Outline)	0 ~ 4
ITRF	MotionDetBoxFill	Color box display of object area where motion is detected (0: OFF, 1: ON)	0 ~ 1
ITAL	MotionDetFontOn	Text Alarm is a function that displays text on the screen when motion occurs (0: OFF, 1: ON)	0 ~ 1
ITCM	MotionCamMovingTH	Function to prevent false detection of motion by camera movement	0 ~ 20
ITBC	MotionBrightChgTH	Function to prevent false detection of motion by changes in screen brightness	0 ~ 200
ITSO	MotionGpioSigOn	Function to output a signal through GPIO when motion occurs (0: OFF, 1: ON)	0 ~ 1

Table 18. Motion Control



MotionOn 1 – Object

Figure 42 Motion detection example

10.13 Focus Assist

This function is used to adjust a manual focus lens.

ID	Feature	Description	Range
FADJ	FocusAdj_On	Edge area emphasis for focus control of manual lens. (0: OFF, 1: ON)	0 ~ 1
FTHS	FocusThrs	Edge level.	0 ~ 20
FACS	FocusAdjColorSel	Edge color. (0: WHT, 1: YEL, 2: CYN, 3: RED, 4: BLU, 5: BLK)	0 ~ 5

Table 19. Focus Assist Control

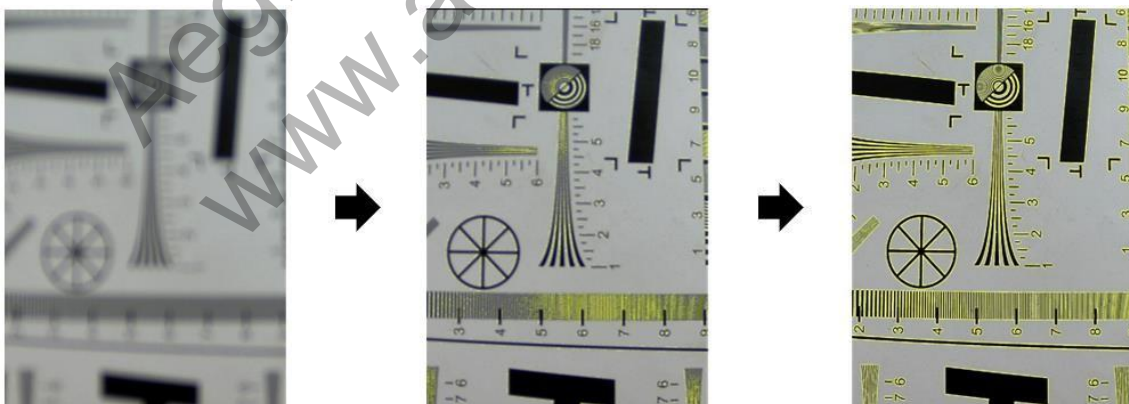


Figure 43 Focus assist example

10.14 Stat config

Set the statistic function configuration.

ID	Feature	Description	Range
SWDS	StatWinDispSel	Display STAT window (0: OFF, 1: AE, 2: AF, 3: AWB)	0 ~ 3
EWDS	AeWinDispNumSel	Display STAT AE window select (bit [0] no use, [1] AE window 2, [2] AE window 3, [3] AE window 4, [4] AE window 5, [5] AE window 6)	0 ~ 63
FWDS	AfWinDispNumSel	Display STAT AF window select (bit [0] AF window 1, [1] AF window 2)	0 ~ 3
WWDS	AwbWinDispOsdSel	Display STAT AWB white point (0: OFF, 1: ON)	0 ~ 1
MWDS	MotionWinDispNumSel	Display STAT MOTION window select (bit [0] Motion window 4, [1] Motion window 3, [2] Motion window 2, [3] Motion window 1)	0 ~ 15

Table 20. Stat config Control

10.15 Backlight Compensation

Set the Auto Exposure Window. The slider in the web interface makes the detection window bigger or smaller, which means each of these parameters is rewritten when adjusted.

ID	Feature	Description	Range
EWX2	AeWinStartX2	AE window 2 X start position, (4095 = default window)	0 ~ 4095
EWY2	AeWinStartY2	AE window 2 Y start position, (4095 = default window)	0 ~ 4095
EWX3	AeWinStartX3	AE window 3 X start position, (4095 = default window)	0 ~ 4095
EWY3	AeWinStartY3	AE window 3 Y start position, (4095 = default window)	0 ~ 4095
EWX2	AeWinSizX2	AE window 2 X width size, (4095 = default window)	0 ~ 4095
EWY2	AeWinSizY2	AE window 2 Y height size, (4095 = default window)	0 ~ 4095
EWX3	AeWinSizX3	AE window 3 X width size, (4095 = default window)	0 ~ 4095
EWY3	AeWinSizY3	AE window 3 Y height size, (4095 = default window)	0 ~ 4095

Table 21. AE window Control

10.16 AE config

Set the AE slice, clip parameter.

ID	Feature	Description	Range
ECS2	AeConfSlice2	AE window 2 Slice value (0~255: fix slice value, 4095: set AE default operation)	0 ~ 4095
ECC2	AeConfClip2	AE window 2 Clip value (0~255: fix clip value, 4095: set AE default operation)	0 ~ 4095
ECS3	AeConfSlice3	AE window 3 Slice value (0~255: fix slice value, 4095: set AE default operation)	0 ~ 4095
ECC3	AeConfClip3	AE window 3 Clip value (0~255: fix clip value, 4095: set AE default operation)	0 ~ 4095

Table 22. AE config Control

10.17 AWB window

Set the AWB window.

ID	Feature	Description	Range
WWX1	AwbWinStartX	AWB window X start position, (4095 = default window)	0 ~ 4095
WWY1	AwbWinStartY	AWB window Y start position, (4095 = default window)	0 ~ 4095
WWW1	AwbWinSizeX	AWB window X width size, (4095 = default window)	0 ~ 4095
WWH1	AwbWinSizeY	AWB window Y height size, (4095 = default window)	0 ~ 4095

Table 23. AWB window Control



If the initial value is larger than 4095, it operates as a default window and stores the window size in the parameter.

10.18 AWB config

Set the AWB slice, clip parameter.

ID	Feature	Description	Range
WCS1	AwbConfSlice	AWB window Y Slice value (0~255: fix slice value, 4095: default value)	0 ~ 4095
WCC1	AwbConfClip	AWB window C Slice value (0~255: fix clip value, 4095: default value)	0 ~ 4095

Table 24. AWB config Control



If the initial value is larger than 4095, it operates as a default window and stores the window size in the parameter.

10.19 Black & White

Set the image to black and white settings. To set the camera to black & white mode set RGBB = 1 and TNMD = 2. To turn it back to default color mode, set RGBB = 0 and TNMD = 1.

ID	Feature	Description	Range
RGBB	RGB_BYPASS	RGB Interpolator Bypass Mode (0: OFF, 1: ON)	0 ~ 1
TNMD	Tdn	DAY & NIGHT Filter Control Mode Settings (0: AUTO, 1: COLOR, 2: B&W, 3: EXTERN) AUTO The mode deciding the day/night based on the AGC level as the decision criteria. COLOR It is the mode fixed to the manual mode to the daytime. B&W It is the mode fixed to the manual mode to the night time. EXTERN The mode which decides the day/night by using the external device.	0 ~ 3

Table 25. AWB config Control

11. Support

11.1 Videology Help Center

This is your go-to resource for all Videology product support questions. The answer to your question may be at your fingertips. Please see the [Videology Help Center](#) for valuable information and resources.

11.2 Contact Videology Support

If you need any support on 801-IP-678 product, please fill out the form here to contact our support department: <https://www.videologyinc.com/contact-videology-service>

11.3 Videology RMA Policy

To learn more about our Return Material Authorization (RMA) policy, please visit the RMA Policy page on our website: <https://www.videologyinc.com/return-authorization>

11.4 Videology Terms and Conditions of Sale

Our global sales terms and conditions can be found on [this link](#).

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